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ANALYTICAL REPORT

REVISED

PBOW
SDG #: CB001

Maureen McMyler

IT Corporation - Knoxville
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Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney

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Project Manager

May 14, 2002

Set 2

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ANALYTICAL METHODS SUMMARY

CB001

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

CB001 : H2D050115

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXFF2	001	CB3001	04/04/02	10:13
EXFF8	002	CB3004	04/03/02	11:20
EXFGE	003	CB3005	04/03/02	11:20
EXFGG	004	CB3007	04/03/02	11:27
EXFGK	005	CB3008	04/03/02	17:30
EXFGP	006	CB3009	04/04/02	10:25
EXFGT	007	CB3010	04/04/02	10:25
EXFGX	008	CB3013	04/04/02	15:20
EXFG1	009	CB5006	04/04/02	12:00
EXFG3	010	CB3001	04/04/02	10:13
EXFG6	011	CB3004	04/03/02	11:20
EXFHC	012	CB3005	04/03/02	11:20
EXFHD	013	CB3007	04/03/02	11:27
EXFHG	014	CB3008	04/03/02	17:30
EXFHQ	015	CB3009	04/04/02	10:25
EXFH3	016	CB3010	04/04/02	10:25
EXFH5	017	CB3013	04/04/02	15:20

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.

(Continued on next page)

SAMPLE SUMMARY

CB001 : H2D080126

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXJE0	001	CB3015	04/05/02	10:40
EXJFC	002	CB3016	04/05/02	15:10
EXJFG	003	CB3018	04/05/02	10:30
EXJFP	004	CB3019	04/05/02	15:20
EXJFR	005	CB3020	04/05/02	15:20
EXJFV	006	CB5008	04/05/02	18:00
EXJF2	007	CB3015	04/05/02	10:40
EXJF8	008	CB3016	04/05/02	15:10
EXJGE	009	CB3018	04/05/02	10:30
EXJGK	010	CB3019	04/05/02	15:20
EXJGL	011	CB3020	04/05/02	15:20

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

CB001 : H2D090107

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXKMG	001	CB3017	04/08/02	12:38
EXKMH	002	CB3022	04/08/02	10:45
EXKMJ	003	CB3023	04/08/02	10:50
EXKMK	004	CB3029	04/08/02	14:35
EXKMM	005	CB5010	04/08/02	16:00
EXKMN	006	CB3017	04/08/02	12:38
EXKMP	007	CB3022	04/08/02	10:45
EXKMQ	008	CB3023	04/08/02	10:50
EXKMR	009	CB3029	04/08/02	14:35

NOTE(S) :

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- 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
CB001
Revised

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 was included with the original report.

Sample Receipt

This report has been revised. The original report did not comment on nitrate and turbidity samples that were received after the holding time had expired. The nitrate and turbidity portion of samples CB3015, CB3016, CB3018, and CB3019 were received after the holding time had expired. The client was notified (V. Graves, 4/10/02) and instructed the laboratory to proceed with the analyses.

The cyanide portion of sample CB3013 was received but was not listed on the chain of custody.

Sample CB3007 for total organic carbon was listed on the chain of custody but was not received.

The cyanide portion of samples CB3001 and CB3015 were received at pH 11. The samples were preserved to pH 12 by laboratory personnel.

An extra 500ml container was received for the cyanide portion of sample CB3004.

The filtered metals portion of sample CB3004 was listed on the chain of custody but was not received.

One of the three vials of sample CB3015 was received with headspace.

The hardness portion of sample CB3019 was received by STL Knoxville and the cyanide portion of sample CB3019 was received by STL North Canton. The samples were shipped to the correct laboartories for analysis.

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PROJECT NARRATIVE
CB001
Revised

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 106.2), Hardness (MCAAW 130.2), 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

Laboratory control duplicate sample EXNW71AD had a recovery for 1,1-dichloroethene that was slightly above QC limits (121% vs. 120%). However, since the recovery was high, and no target analytes were detected in the associated samples, the validity of the data is unaffected.

Samples CB3010, CB3013, and CB3009 were 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.

Sample CB3022 was reported with elevated reporting limits for all analytes due to a difficult foaming sample matrix. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

Sample CB3008 and CB3015 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

Surrogate recoveries for CB3015 were outside QC limits due to matrix interferences.

The surrogate recoveries for the matrix spike/matrix spike duplicate for sample CB3004 were outside criteria. However, the laboratory control sample also showed acceptable results indicating that the analysis was in control.

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PROJECT NARRATIVE
CB001
Revised

Semivolatiles

Samples CB3016, CB3018, CB3019, CB3020, CB3017, CB3029, MS/MSD for CB3004, and LCS EXFGV had high internal standard #6 and high surrogate # 5. Samples CB3001, CB3004, CB3007, CB3023 and method blank EXFGV had high internal standard #6; sample CB3013 and CB3022 had high surrogate #5. This was likely due to cumulative detrimental effects on the column/MS from the samples that were high in sulfur. The higher mass analytes increased in response. Since this IS and SS had the higher masses, their response increased. A similar increase would be expected for target analytes having higher masses also, but there were none detected. In addition, the LCS/MS/MSD results showed all control analytes in control. Therefore the impact on the data is minimal or none at all.

Sample CB3015 had a high recovery of 2-fluorophenol due to matrix interference. There were ion interferences with this surrogate. Since only one target analyte was detected slight above the reporting limit, the date should not be affected.

Internal standard #6 was lost in sample CB3022 at the first analysis. The sample was re-run at a one to10 dilution in order to have it within the QC criteria, both analyses were reported. Target analytes not referencing internal standard #6 were reported from the 1st analysis; only target analytes associated with internal standard #6 were reported from the diluted analysis and the reporting limits were elevated accordingly.

Explosives

The matrix spike/matrix spike duplicate recoveries and/or RPDs for sample CB3004 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.

Due to sample matrix interferences, estimated results below the reporting limit were not reported for several analytes for samples CB3013 and CB3015. The result was qualified with an "I" flag to indicate the presence of matrix interferences.

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PROJECT NARRATIVE
CB001
Revised

Explosives (continued)

The following samples were reported with elevated reporting limits for one or more analytes due to sample matrix interferences: CB3008, CB3013 and CB3015. The affected analytes are flagged on the sample report.

Sample CB3022 was reported with elevated reporting limits for all analytes due to sample matrix interferences, sample was run at at 1/10 dilution.

Metals

The serial dilution of sample CB3004 was outside control limits for potassium due to physical or chemical matrix interferences.

The serial dilution of sample CB3004D was outside control limits for potassium and zinc due to physical or chemical matrix interferences.

Cyanide

Samples CB3004, CB3008, CB3009, CB3013, CB3015, CB3018, CB3019 and the method standards were treated for sulfide prior to distillation.

Chloride

The matrix spike/matrix spike duplicate recoveries and/or RPDs for sample CB3004 were outside limits for chloride. 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.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

GC/MS Volatiles

Lot-Sample #...: H2D050115-001 **Work Order #...:** EXFF22A4 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**5.3 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.67 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(80 - 120)
1,2-Dichloroethane-d4	89	(80 - 120)
Toluene-d8	92	(80 - 120)
Bromofluorobenzene	91	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

GC/MS Volatiles

Lot-Sample #...: H2D050115-001 **Work Order #...:** EXFF22A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

GC/MS Volatiles

Lot-Sample #...: H2D050115-002 **Work Order #...:** EXFF81DP **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.21 J,B**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	**0.36 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.25 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(80 - 120)
1,2-Dichloroethane-d4	110	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

GC/MS Volatiles

Lot-Sample #...: H2D050115-002 **Work Order #...:** EXFF81DP **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

GC/MS Volatiles

Lot-Sample #...: H2D050115-003 **Work Order #...:** EXFGE2A4 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.20 J,B**	**2.0**	**ug/L**
Acetone	**2.2 J**	**10**	**ug/L**
Carbon disulfide	**0.63 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.27 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(80 - 120)
1,2-Dichloroethane-d4	111	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

GC/MS Volatiles

Lot-Sample #...: H2D050115-003 **Work Order #...:** EXFGE2A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

GC/MS Volatiles

Lot-Sample #...: H2D050115-004 **Work Order #...:** EXFGG1A4 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/05/02
Prep Batch #...: 2095147
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**3.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**1.0**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(80 - 120)
1,2-Dichloroethane-d4	93	(80 - 120)
Toluene-d8	83	(80 - 120)
Bromofluorobenzene	74	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

GC/MS Volatiles

Lot-Sample #...: H2D050115-004 **Work Order #...:** EXFGG1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

GC/MS Volatiles

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK2A4 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/12/02
Prep Batch #...: 2101245
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	10	ug/L
Bromomethane	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	ND	10	ug/L
Acetone	**170**	**50**	**ug/L**
Carbon disulfide	**0.59 J**	**5.0**	**ug/L**
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
2-Butanone	**17 J**	**25**	**ug/L**
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**110**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Toluene	**100**	**5.0**	**ug/L**
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	**38**	**5.0**	**ug/L**
Styrene	ND	5.0	ug/L
Xylenes (total)	**210**	**5.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	105	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

GC/MS Volatiles

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK2A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

GC/MS Volatiles

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP1A4 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2102298
Dilution Factor: 40 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	80	ug/L
Bromomethane	ND	80	ug/L
Vinyl chloride	ND	40	ug/L
Chloroethane	ND	80	ug/L
Methylene chloride	**11 J**	**80**	**ug/L**
Acetone	ND	400	ug/L
Carbon disulfide	ND	40	ug/L
1,1-Dichloroethene	ND	40	ug/L
1,1-Dichloroethane	ND	40	ug/L
1,2-Dichloroethene (total)	ND	40	ug/L
Chloroform	ND	40	ug/L
1,2-Dichloroethane	ND	40	ug/L
2-Butanone	ND	200	ug/L
1,1,1-Trichloroethane	ND	40	ug/L
Carbon tetrachloride	ND	40	ug/L
Bromodichloromethane	ND	40	ug/L
1,2-Dichloropropane	ND	40	ug/L
cis-1,3-Dichloropropene	ND	40	ug/L
Trichloroethene	ND	40	ug/L
Dibromochloromethane	ND	40	ug/L
1,1,2-Trichloroethane	ND	40	ug/L
Benzene	ND	40	ug/L
trans-1,3-Dichloropropene	ND	40	ug/L
Bromoform	ND	40	ug/L
4-Methyl-2-pentanone	ND	200	ug/L
2-Hexanone	ND	200	ug/L
Tetrachloroethene	ND	40	ug/L
1,1,2,2-Tetrachloroethane	ND	40	ug/L
Toluene	ND	40	ug/L
Chlorobenzene	ND	40	ug/L
Ethylbenzene	ND	40	ug/L
Styrene	ND	40	ug/L
Xylenes (total)	ND	40	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

GC/MS Volatiles

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

GC/MS Volatiles

Lot-Sample #...: H2D050115-007 **Work Order #...:** EXFGT2A4 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 10 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	**10 J,B**	**20**	**ug/L**
Acetone	**19 J**	**100**	**ug/L**
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	ND	10	ug/L
Chloroform	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Toluene	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Styrene	ND	10	ug/L
Xylenes (total)	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

GC/MS Volatiles

Lot-Sample #...: H2D050115-007 Work Order #...: EXFGT2A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

GC/MS Volatiles

Lot-Sample #...: H2D050115-008 **Work Order #...:** EXFGX1A4 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/05/02
Prep Batch #...: 2095147
Dilution Factor: 50 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	100	ug/L
Bromomethane	ND	100	ug/L
Vinyl chloride	ND	50	ug/L
Chloroethane	ND	100	ug/L
Methylene chloride	**9.7 J,B**	**100**	**ug/L**
Acetone	ND	500	ug/L
Carbon disulfide	ND	50	ug/L
1,1-Dichloroethene	ND	50	ug/L
1,1-Dichloroethane	ND	50	ug/L
1,2-Dichloroethene (total)	ND	50	ug/L
Chloroform	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
2-Butanone	ND	250	ug/L
1,1,1-Trichloroethane	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Bromodichloromethane	ND	50	ug/L
1,2-Dichloropropane	ND	50	ug/L
cis-1,3-Dichloropropene	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Dibromochloromethane	ND	50	ug/L
1,1,2-Trichloroethane	ND	50	ug/L
Benzene	**42 J**	**50**	**ug/L**
trans-1,3-Dichloropropene	ND	50	ug/L
Bromoform	ND	50	ug/L
4-Methyl-2-pentanone	ND	250	ug/L
2-Hexanone	ND	250	ug/L
Tetrachloroethene	ND	50	ug/L
1,1,2,2-Tetrachloroethane	ND	50	ug/L
Toluene	**18 J**	**50**	**ug/L**
Chlorobenzene	ND	50	ug/L
Ethylbenzene	**16 J**	**50**	**ug/L**
Styrene	ND	50	ug/L
Xylenes (total)	**170**	**50**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(80 - 120)
1,2-Dichloroethane-d4	93	(80 - 120)
Toluene-d8	82	(80 - 120)
Bromofluorobenzene	73	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

GC/MS Volatiles

Lot-Sample #...: H2D050115-008 **Work Order #...:** EXFGX1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5006

GC/MS Volatiles

Lot-Sample #...: H2D050115-009 **Work Order #...:** EXFG11AA **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/05/02
Prep Batch #...: 2095147
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.23 J,B**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(80 - 120)
1,2-Dichloroethane-d4	95	(80 - 120)
Toluene-d8	81	(80 - 120)
Bromofluorobenzene	75	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5006

GC/MS Volatiles

Lot-Sample #...: H2D050115-009 Work Order #...: EXFG11AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

GC/MS Volatiles

Lot-Sample #...: H2D080126-001 **Work Order #...:** EXJE01A4 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/12/02
Prep Batch #...: 2101245
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	10	ug/L
Bromomethane	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	ND	10	ug/L
Acetone	ND	50	ug/L
Carbon disulfide	**4.8 J**	**5.0**	**ug/L**
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
2-Butanone	ND	25	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**14**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Toluene	**74**	**5.0**	**ug/L**
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	**100**	**5.0**	**ug/L**
Styrene	ND	5.0	ug/L
Xylenes (total)	**420**	**5.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69 *	(80 - 120)
1,2-Dichloroethane-d4	85	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

GC/MS Volatiles

Lot-Sample #...: H2D080126-001 Work Order #...: EXJE01A4 Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

GC/MS Volatiles

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC1AF **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2102298
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.49 J**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

GC/MS Volatiles

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

GC/MS Volatiles

Lot-Sample #...: H2D080126-003 **Work Order #...:** EXJFG1AF **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/10/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**3.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	100	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

GC/MS Volatiles

Lot-Sample #...: H2D080126-003 Work Order #...: EXJFG1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

GC/MS Volatiles

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AF **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/10/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**2.3 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	**0.38 J**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	97	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

GC/MS Volatiles

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

GC/MS Volatiles

Lot-Sample #...: H2D080126-005 **Work Order #...:** EXJFR1A4 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**2.7 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	**0.42 J**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

GC/MS Volatiles

Lot-Sample #...: H2D080126-005 **Work Order #...:** EXJFR1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5008

GC/MS Volatiles

Lot-Sample #...: H2D080126-006 **Work Order #...:** EXJFV1AA **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.18 J,B**	**2.0**	**ug/L**
Acetone	**2.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(80 - 120)
1,2-Dichloroethane-d4	107	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5008

GC/MS Volatiles

Lot-Sample #...: H2D080126-006 Work Order #...: EXJFV1AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

GC/MS Volatiles

Lot-Sample #...: H2D090107-001 **Work Order #...:** EXKMG1A4 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

GC/MS Volatiles

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH1AF **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/12/02
Prep Batch #...: 2101245
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	10	ug/L
Bromomethane	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	**1.9 J,B**	**10**	**ug/L**
Acetone	ND	50	ug/L
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
2-Butanone	ND	25	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
Xylenes (total)	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	99	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

GC/MS Volatiles

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

GC/MS Volatiles

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ1AF **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**1.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.50 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	97	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

GC/MS Volatiles

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

GC/MS Volatiles

Lot-Sample #...: H2D090107-004 **Work Order #...:** EXKMK1AF **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100376
Dilution Factor: 1 **Method.....:** SW846 8260B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(80 - 120)
1,2-Dichloroethane-d4	90	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5010

GC/MS Volatiles

Lot-Sample #...: H2D090107-005 **Work Order #...:** EXKMM1AA **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.24 J,B**	**2.0**	**ug/L**
Acetone	**2.1 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(80 - 120)
1,2-Dichloroethane-d4	105	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5010

GC/MS Volatiles

Lot-Sample #...: H2D090107-005 **Work Order #...:** EXKMM1AA **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXFEG1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D050000-147

Prep Date.....: 04/05/02
Analysis Date..: 04/05/02 **Prep Batch #...:** 2095147
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	**0.30 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)	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	ND	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	ND	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	93	(80 - 120)
1,2-Dichloroethane-d4	94	(80 - 120)
Toluene-d8	81	(80 - 120)
Bromofluorobenzene	74	(72 - 135)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXFEG1AA **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 #...: CB001 **Work Order #...:** EXFEG1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D050000-147 EXFEG1AD-LCSD
Prep Date.....: 04/05/02 **Analysis Date..:** 04/05/02
Prep Batch #...: 2095147
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**102**	**(69 - 120)**			**SW846 8260B**
	101	**(69 - 120)**	**1.2**	**(0-26)**	**SW846 8260B**
Trichloroethene	**106**	**(76 - 120)**			**SW846 8260B**
	105	**(76 - 120)**	**1.6**	**(0-17)**	**SW846 8260B**
Benzene	**104**	**(76 - 120)**			**SW846 8260B**
	103	**(76 - 120)**	**0.73**	**(0-19)**	**SW846 8260B**
Toluene	**99**	**(77 - 120)**			**SW846 8260B**
	99	**(77 - 120)**	**0.090**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**103**	**(75 - 120)**			**SW846 8260B**
	103	**(75 - 120)**	**0.21**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(80 - 120)
	92	(80 - 120)
1,2-Dichloroethane-d4	92	(80 - 120)
	92	(80 - 120)
Toluene-d8	82	(80 - 120)
	84	(80 - 120)
Bromofluorobenzene	76	(72 - 135)
	77	(72 - 135)

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 #...: CB001 **Work Order #...:** EXFEG1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D050000-147 EXFEG1AD-LCSD
Prep Date.....: 04/05/02 **Analysis Date..:** 04/05/02
Prep Batch #...: 2095147
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**1.2**	**SW846 8260B**
Trichloroethene	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	10.0	**10.5**	**ug/L**	**105**	**1.6**	**SW846 8260B**
Benzene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	10.0	**10.3**	**ug/L**	**103**	**0.73**	**SW846 8260B**
Toluene	**10.0**	**9.91**	**ug/L**	**99**		**SW846 8260B**
	10.0	**9.92**	**ug/L**	**99**	**0.090**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	10.0	**10.3**	**ug/L**	**103**	**0.21**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(80 - 120)
	92	(80 - 120)
1,2-Dichloroethane-d4	92	(80 - 120)
	92	(80 - 120)
Toluene-d8	82	(80 - 120)
	84	(80 - 120)
Bromofluorobenzene	76	(72 - 135)
	77	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXNW71AA **Matrix.....:** WATER
MB Lot-Sample #: H2D100000-376

Prep Date.....: 04/10/02
Analysis Date..: 04/10/02 **Prep Batch #...:** 2100376
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	**0.52 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)	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	ND	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	ND	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	99	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	98	(72 - 135)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 Work Order #...: EXNW71AA 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 #...: CB001 **Work Order #...:** EXNW71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-376 EXNW71AD-LCSD
Prep Date.....: 04/10/02 **Analysis Date..:** 04/10/02
Prep Batch #...: 2100376
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**111**	**(69 - 120)**			**SW846 8260B**
	121 a	**(69 - 120)**	**9.0**	**(0-26)**	**SW846 8260B**
Trichloroethene	**107**	**(76 - 120)**			**SW846 8260B**
	119	**(76 - 120)**	**10**	**(0-17)**	**SW846 8260B**
Benzene	**109**	**(76 - 120)**			**SW846 8260B**
	119	**(76 - 120)**	**9.1**	**(0-19)**	**SW846 8260B**
Toluene	**107**	**(77 - 120)**			**SW846 8260B**
	115	**(77 - 120)**	**7.3**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**107**	**(75 - 120)**			**SW846 8260B**
	116	**(75 - 120)**	**8.2**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(80 - 120)
	102	(80 - 120)
1,2-Dichloroethane-d4	107	(80 - 120)
	105	(80 - 120)
Toluene-d8	100	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	102	(72 - 135)
	100	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXNW71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-376 EXNW71AD-LCSD
Prep Date.....: 04/10/02 **Analysis Date..:** 04/10/02
Prep Batch #...: 2100376
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**11.1**	**ug/L**	**111**		**SW846 8260B**
	10.0	**12.1 a**	**ug/L**	**121**	**9.0**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	10.0	**11.9**	**ug/L**	**119**	**10**	**SW846 8260B**
Benzene	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	10.0	**11.9**	**ug/L**	**119**	**9.1**	**SW846 8260B**
Toluene	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	10.0	**11.5**	**ug/L**	**115**	**7.3**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	10.0	**11.6**	**ug/L**	**116**	**8.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(80 - 120)
	102	(80 - 120)
1,2-Dichloroethane-d4	107	(80 - 120)
	105	(80 - 120)
Toluene-d8	100	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	102	(72 - 135)
	100	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXP821AA **Matrix.....:** WATER
MB Lot-Sample #: H2D110000-245

Prep Date.....: 04/11/02
Analysis Date..: 04/11/02 **Prep Batch #...:** 2101245
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	**0.21 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)	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	ND	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	ND	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	105	(80 - 120)
1,2-Dichloroethane-d4	106	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXP821AA **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 #...: CB001 **Work Order #...:** EXP821AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-245
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**98**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**108**	**(76 - 120)**	**SW846 8260B**
Benzene	**108**	**(76 - 120)**	**SW846 8260B**
Toluene	**104**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**102**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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 #...: CB001 **Work Order #...:** EXP821AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-245
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.76**	**ug/L**	**98**	**SW846 8260B**
Trichloroethene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Benzene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Toluene	**10.0**	**10.4**	**ug/L**	**104**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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 #...: CB001 **Work Order #...:** EXFF81DQ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DR-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(58 - 130)**			**SW846 8260B**
	108	**(58 - 130)**	**2.4**	**(0-26)**	**SW846 8260B**
Trichloroethene	**94**	**(50 - 152)**			**SW846 8260B**
	93	**(50 - 152)**	**0.82**	**(0-17)**	**SW846 8260B**
Benzene	**98**	**(68 - 125)**			**SW846 8260B**
	98	**(68 - 125)**	**0.77**	**(0-19)**	**SW846 8260B**
Toluene	**111**	**(66 - 127)**			**SW846 8260B**
	106	**(66 - 127)**	**4.0**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**108**	**(70 - 120)**			**SW846 8260B**
	105	**(70 - 120)**	**2.8**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69 *	(80 - 120)
	71 *	(80 - 120)
1,2-Dichloroethane-d4	62 *	(80 - 120)
	64 *	(80 - 120)
Toluene-d8	99	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	95	(72 - 135)
	95	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXFF81DQ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DR-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2101245
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	ND	**10.0**	**10.8**	**ug/L**	**108**	**2.4**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.41**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.33**	**ug/L**	**93**	**0.82**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.91**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.99**	**ug/L**	**98**	**0.77**	**SW846 8260B**
Toluene	**0.25**	**10.0**	**11.3**	**ug/L**	**111**		**SW846 8260B**
	0.25	**10.0**	**10.9**	**ug/L**	**106**	**4.0**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260B**
	ND	**10.0**	**10.5**	**ug/L**	**105**	**2.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69 *	(80 - 120)
	71 *	(80 - 120)
1,2-Dichloroethane-d4	62 *	(80 - 120)
	64 *	(80 - 120)
Toluene-d8	99	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	95	(72 - 135)
	95	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXTGT1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D120000-298

Prep Date.....: 04/16/02
Analysis Date..: 04/16/02 **Prep Batch #...:** 2102298
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	ND	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	ND	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	99	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	97	(72 - 135)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXTGT1AA **Matrix.....:** WATER

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EXTGT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-298 EXTGT1AD-LCSD
Prep Date.....: 04/16/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2102298
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**99**	**(69 - 120)**			**SW846 8260B**
	107	**(69 - 120)**	**7.9**	**(0-26)**	**SW846 8260B**
Trichloroethene	**98**	**(76 - 120)**			**SW846 8260B**
	106	**(76 - 120)**	**8.5**	**(0-17)**	**SW846 8260B**
Benzene	**97**	**(76 - 120)**			**SW846 8260B**
	105	**(76 - 120)**	**8.1**	**(0-19)**	**SW846 8260B**
Toluene	**99**	**(77 - 120)**			**SW846 8260B**
	107	**(77 - 120)**	**7.3**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 120)**			**SW846 8260B**
	106	**(75 - 120)**	**9.0**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	96	(80 - 120)
1,2-Dichloroethane-d4	94	(80 - 120)
	97	(80 - 120)
Toluene-d8	97	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	92	(72 - 135)
	93	(72 - 135)

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 #...: CB001 **Work Order #...:** EXTGT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-298 EXTGT1AD-LCSD
Prep Date.....: 04/16/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2102298
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**9.91**	**ug/L**	**99**		**SW846 8260B**
	10.0	**10.7**	**ug/L**	**107**	**7.9**	**SW846 8260B**
Trichloroethene	**10.0**	**9.77**	**ug/L**	**98**		**SW846 8260B**
	10.0	**10.6**	**ug/L**	**106**	**8.5**	**SW846 8260B**
Benzene	**10.0**	**9.65**	**ug/L**	**97**		**SW846 8260B**
	10.0	**10.5**	**ug/L**	**105**	**8.1**	**SW846 8260B**
Toluene	**10.0**	**9.94**	**ug/L**	**99**		**SW846 8260B**
	10.0	**10.7**	**ug/L**	**107**	**7.3**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.72**	**ug/L**	**97**		**SW846 8260B**
	10.0	**10.6**	**ug/L**	**106**	**9.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	96	(80 - 120)
1,2-Dichloroethane-d4	94	(80 - 120)
	97	(80 - 120)
Toluene-d8	97	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	92	(72 - 135)
	93	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EX15N1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D170000-292

Prep Date.....: 04/17/02
Analysis Date..: 04/17/02 **Prep Batch #...:** 2107292
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	**0.24 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)	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	ND	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	ND	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	98	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB001 **Work Order #...:** EX15N1AA **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 #...: CB001 **Work Order #...:** EX15N1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-292
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**102**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**102**	**(76 - 120)**	**SW846 8260B**
Benzene	**101**	**(76 - 120)**	**SW846 8260B**
Toluene	**102**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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 #...: CB001 **Work Order #...:** EX15N1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-292
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Trichloroethene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Benzene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.94**	**ug/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-001 **Work Order #...:** EXFF21A5 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-001 Work Order #...: EXFF21A5 Matrix.....: WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(29 - 110)
Phenol-d5	50	(41 - 115)
Nitrobenzene-d5	59	(46 - 117)
2-Fluorobiphenyl	66	(44 - 116)
2,4,6-Tribromophenol	119	(31 - 138)
Terphenyl-d14	79	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-002 **Work Order #...:** EXFF81DT **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-002 **Work Order #...:** EXFF81DT **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	62	(41 - 115)
Nitrobenzene-d5	74	(46 - 117)
2-Fluorobiphenyl	86	(44 - 116)
2,4,6-Tribromophenol	138	(31 - 138)
Terphenyl-d14	95	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-003 **Work Order #...:** EXFGE1A5 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-003 **Work Order #...:** EXFGE1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(29 - 110)
Phenol-d5	69	(41 - 115)
Nitrobenzene-d5	81	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	126	(31 - 138)
Terphenyl-d14	92	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-004 **Work Order #...:** EXFGG1A5 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-004 **Work Order #...:** EXFGG1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(29 - 110)
Phenol-d5	69	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	131	(31 - 138)
Terphenyl-d14	95	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK1A5 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**4.0 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**4.6 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(29 - 110)
Phenol-d5	60	(41 - 115)
Nitrobenzene-d5	74	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	127	(31 - 138)
Terphenyl-d14	95	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK1A5 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP1A5 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	64	(41 - 115)
Nitrobenzene-d5	76	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	101	(31 - 138)
Terphenyl-d14	81	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-007 **Work Order #...:** EXFGT1A5 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-007 **Work Order #...:** EXFGT1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(29 - 110)
Phenol-d5	64	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
2-Fluorobiphenyl	90	(44 - 116)
2,4,6-Tribromophenol	108	(31 - 138)
Terphenyl-d14	92	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-008 **Work Order #...:** EXFGX1A5 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**6.1 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**10**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-008 **Work Order #...:** EXFGX1A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**0.74 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**9.7 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(29 - 110)
Phenol-d5	55	(41 - 115)
Nitrobenzene-d5	57	(46 - 117)
2-Fluorobiphenyl	77	(44 - 116)
2,4,6-Tribromophenol	143 *	(31 - 138)
Terphenyl-d14	96	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

GC/MS Semivolatiles

Lot-Sample #...: H2D050115-008 Work Order #...: EXFGX1A5 Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-001 **Work Order #...:** EXJE01A5 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**1.4 J**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**4.7 J**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**4.4 J**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**12**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**9.9 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**5.3 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-001 **Work Order #...:** EXJE01A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	134 *	(29 - 110)
Phenol-d5	71	(41 - 115)
Nitrobenzene-d5	71	(46 - 117)
2-Fluorobiphenyl	77	(44 - 116)
2,4,6-Tribromophenol	96	(31 - 138)
Terphenyl-d14	88	(36 - 134)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-001 Work Order #...: EXJE01A5 Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC1AG **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(29 - 110)
Phenol-d5	74	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
2-Fluorobiphenyl	91	(44 - 116)
2,4,6-Tribromophenol	153 *	(31 - 138)
Terphenyl-d14	96	(36 - 134)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-002 Work Order #...: EXJFC1AG Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-003 **Work Order #...:** EXJFG1AG **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-003 **Work Order #...:** EXJFG1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	66	(41 - 115)
Nitrobenzene-d5	72	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	164 *	(31 - 138)
Terphenyl-d14	97	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-003 Work Order #...: EXJFG1AG Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AG **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(29 - 110)
Phenol-d5	74	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	153 *	(31 - 138)
Terphenyl-d14	96	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AG **Matrix.....:** WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-005 **Work Order #...:** EXJFR1A5 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-005 Work Order #...: EXJFR1A5 Matrix.....: WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(29 - 110)
Phenol-d5	67	(41 - 115)
Nitrobenzene-d5	71	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	147 *	(31 - 138)
Terphenyl-d14	93	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

GC/MS Semivolatiles

Lot-Sample #...: H2D080126-005 **Work Order #...:** EXJFR1A5 **Matrix.....:** WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-001 **Work Order #...:** EXKMG1A5 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-001 **Work Order #...:** EXKMG1A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(29 - 110)
Phenol-d5	59	(41 - 115)
Nitrobenzene-d5	65	(46 - 117)
2-Fluorobiphenyl	77	(44 - 116)
2,4,6-Tribromophenol	141 *	(31 - 138)
Terphenyl-d14	89	(36 - 134)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-001 Work Order #...: EXKMG1A5 Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH1AG **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH1AG **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	**150**	**50**	**ug/L**
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**19**	**10**	**ug/L**
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
Phenol-d5	73	(41 - 115)
Nitrobenzene-d5	74	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	174 *	(31 - 138)
Terphenyl-d14	84	(36 - 134)

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH2AG **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/26/02
Prep Batch #...: 2099156
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Di-n-octyl phthalate	ND	100	ug/L
Benzo(b)fluoranthene	ND	100	ug/L
Benzo(k)fluoranthene	ND	100	ug/L
Benzo(a)pyrene	ND	100	ug/L
Indeno(1,2,3-cd)pyrene	ND	100	ug/L
Dibenz(a,h)anthracene	ND	100	ug/L
Benzo(ghi)perylene	ND	100	ug/L

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

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ1AG **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(29 - 110)
Phenol-d5	64	(41 - 115)
Nitrobenzene-d5	71	(46 - 117)
2-Fluorobiphenyl	78	(44 - 116)
2,4,6-Tribromophenol	138	(31 - 138)
Terphenyl-d14	90	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-004 **Work Order #...:** EXKMK1AG **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-004 **Work Order #...:** EXKMK1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	64	(41 - 115)
Nitrobenzene-d5	79	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	143 *	(31 - 138)
Terphenyl-d14	96	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

GC/MS Semivolatiles

Lot-Sample #...: H2D090107-004 Work Order #...: EXKMK1AG Matrix.....: WATER

NOTE(S):

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFGV1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D050000-183

Prep Date.....: 04/05/02
Analysis Date..: 04/17/02 **Prep Batch #...:** 2095183
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFGV1AA **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	62	(29 - 110)
Phenol-d5	66	(41 - 115)
Nitrobenzene-d5	84	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	118	(31 - 138)
Terphenyl-d14	92	(36 - 134)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFGV1AA **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 #...: CB001 **Work Order #...:** EXFGV1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D050000-183
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**74**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**72**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**74**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**86**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**97**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**84**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**84**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**82**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**83**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**96**	**(64 - 114)**	**SW846 8270C**
Pyrene	**76**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(29 - 110)
Phenol-d5	75	(41 - 115)
Nitrobenzene-d5	87	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
2,4,6-Tribromophenol	159 *	(31 - 138)
Terphenyl-d14	92	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFGV1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D050000-183
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**74.2**	**ug/L**	**74**	**SW846 8270C**
2-Chlorophenol	**100**	**72.0**	**ug/L**	**72**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**74.3**	**ug/L**	**74**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**86.4**	**ug/L**	**86**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**97.3**	**ug/L**	**97**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**83.7**	**ug/L**	**84**	**SW846 8270C**
Acenaphthene	**100**	**84.2**	**ug/L**	**84**	**SW846 8270C**
4-Nitrophenol	**100**	**82.0**	**ug/L**	**82**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**83.2**	**ug/L**	**83**	**SW846 8270C**
Pentachlorophenol	**100**	**96.1**	**ug/L**	**96**	**SW846 8270C**
Pyrene	**100**	**76.2**	**ug/L**	**76**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(29 - 110)
Phenol-d5	75	(41 - 115)
Nitrobenzene-d5	87	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
2,4,6-Tribromophenol	159 *	(31 - 138)
Terphenyl-d14	92	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFF81DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DV-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	72	(58 - 103)			SW846 8270C
	72	(58 - 103)	4.2	(0-41)	SW846 8270C
2-Chlorophenol	70	(54 - 103)			SW846 8270C
	71	(54 - 103)	4.1	(0-43)	SW846 8270C
1,4-Dichlorobenzene	72	(56 - 102)			SW846 8270C
	72	(56 - 102)	3.8	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	82	(61 - 108)			SW846 8270C
	82	(61 - 108)	3.7	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	91	(58 - 104)			SW846 8270C
	93	(58 - 104)	5.0	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	81	(65 - 108)			SW846 8270C
	81	(65 - 108)	4.1	(0-29)	SW846 8270C
Acenaphthene	84	(59 - 100)			SW846 8270C
	82	(59 - 100)	1.4	(0-26)	SW846 8270C
4-Nitrophenol	77	(50 - 122)			SW846 8270C
	79	(50 - 122)	5.8	(0-50)	SW846 8270C
2,4-Dinitrotoluene	77	(67 - 128)			SW846 8270C
	80	(67 - 128)	6.7	(0-25)	SW846 8270C
Pentachlorophenol	89	(64 - 118)			SW846 8270C
	89	(64 - 118)	3.2	(0-37)	SW846 8270C
Pyrene	74	(51 - 119)			SW846 8270C
	77	(51 - 119)	7.0	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(29 - 110)
	66	(29 - 110)
Phenol-d5	73	(41 - 115)
	72	(41 - 115)
Nitrobenzene-d5	84	(46 - 117)
	84	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
	92	(44 - 116)
2,4,6-Tribromophenol	161 *	(31 - 138)
	159 *	(31 - 138)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFF81DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DV-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(36 - 134)
	94	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFF81DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DV-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/05/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2095183
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	104	74.7	ug/L	72		SW846 8270C
	ND	108	77.9	ug/L	72	4.2	SW846 8270C
2-Chlorophenol	ND	104	73.2	ug/L	70		SW846 8270C
	ND	108	76.3	ug/L	71	4.1	SW846 8270C
1,4-Dichlorobenzene	ND	104	74.4	ug/L	72		SW846 8270C
	ND	108	77.3	ug/L	72	3.8	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	104	85.7	ug/L	82		SW846 8270C
	ND	108	88.9	ug/L	82	3.7	SW846 8270C
1,2,4-Trichloro-benzene	ND	104	95.1	ug/L	91		SW846 8270C
	ND	108	100	ug/L	93	5.0	SW846 8270C
4-Chloro-3-methylphenol	ND	104	84.4	ug/L	81		SW846 8270C
	ND	108	87.9	ug/L	81	4.1	SW846 8270C
Acenaphthene	ND	104	87.2	ug/L	84		SW846 8270C
	ND	108	88.4	ug/L	82	1.4	SW846 8270C
4-Nitrophenol	ND	104	80.2	ug/L	77		SW846 8270C
	ND	108	85.0	ug/L	79	5.8	SW846 8270C
2,4-Dinitrotoluene	ND	104	80.5	ug/L	77		SW846 8270C
	ND	108	86.1	ug/L	80	6.7	SW846 8270C
Pentachlorophenol	ND	104	92.7	ug/L	89		SW846 8270C
	ND	108	95.7	ug/L	89	3.2	SW846 8270C
Pyrene	ND	104	77.2	ug/L	74		SW846 8270C
	ND	108	82.8	ug/L	77	7.0	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(29 - 110)
	66	(29 - 110)
Phenol-d5	73	(41 - 115)
	72	(41 - 115)
Nitrobenzene-d5	84	(46 - 117)
	84	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
	92	(44 - 116)
2,4,6-Tribromophenol	161 *	(31 - 138)
	159 *	(31 - 138)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXFF81DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DV-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	91	(36 - 134)
	94	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXKLE1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D090000-156

Prep Date.....: 04/09/02
Analysis Date..: 04/17/02 **Prep Batch #...:** 2099156
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 **Work Order #...:** EXKLE1AA **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	67	(29 - 110)
Phenol-d5	77	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	85	(31 - 138)
Terphenyl-d14	93	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB001 Work Order #...: EXKLE1AA 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 #...: CB001 **Work Order #...:** EXKLE1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D090000-156
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**82**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**78**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**77**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**90**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**85**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**87**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**85**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**94**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**88**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**88**	**(64 - 114)**	**SW846 8270C**
Pyrene	**88**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	84	(41 - 115)
Nitrobenzene-d5	86	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
2,4,6-Tribromophenol	98	(31 - 138)
Terphenyl-d14	90	(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 #...: CB001 **Work Order #...:** EXKLE1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D090000-156
Prep Date.....: 04/09/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2099156
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**81.5**	**ug/L**	**82**	**SW846 8270C**
2-Chlorophenol	**100**	**78.2**	**ug/L**	**78**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**77.1**	**ug/L**	**77**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**90.2**	**ug/L**	**90**	**SW846 8270C**
1,2,4-Trichloro-benzene	100	84.9	ug/L	85	SW846 8270C
4-Chloro-3-methylphenol	**100**	**87.2**	**ug/L**	**87**	**SW846 8270C**
Acenaphthene	**100**	**84.7**	**ug/L**	**85**	**SW846 8270C**
4-Nitrophenol	**100**	**93.5**	**ug/L**	**94**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**88.3**	**ug/L**	**88**	**SW846 8270C**
Pentachlorophenol	**100**	**87.5**	**ug/L**	**88**	**SW846 8270C**
Pyrene	**100**	**88.2**	**ug/L**	**88**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	84	(41 - 115)
Nitrobenzene-d5	86	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
2,4,6-Tribromophenol	98	(31 - 138)
Terphenyl-d14	90	(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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

HPLC

Lot-Sample #...: H2D050115-001 **Work Order #...:** EXFF21A3 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	**0.088 J**	**0.20**	**ug/L**
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	81	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

HPLC

Lot-Sample #...: H2D050115-002 **Work Order #...:** EXFF81DL **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	**0.076 J**	**0.20**	**ug/L**
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	81	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

HPLC

Lot-Sample #...: H2D050115-003 **Work Order #...:** EXFGE1A3 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	76	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

HPLC

Lot-Sample #...: H2D050115-004 **Work Order #...:** EXFGG1A3 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	62	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

HPLC

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK1A3 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	**0.22 J**	**0.50**	**ug/L**
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	**0.33**	**0.20**	**ug/L**
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	**0.43**	**0.20**	**ug/L**
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND G	1.7	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND G	0.23	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	78	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

HPLC

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP1A3 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

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

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

HPLC

Lot-Sample #...: H2D050115-007 **Work Order #...:** EXFGT1A3 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

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

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

HPLC

Lot-Sample #...: H2D050115-008 **Work Order #...:** EXFGX1A3 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	**0.17 J**	**0.50**	**ug/L**
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND G	0.93	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND I	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	90	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

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

I Matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

HPLC

Lot-Sample #...: H2D080126-001 **Work Order #...:** EXJE01A3 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND I	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND G	0.65	ug/L
Nitrobenzene	ND G	0.21	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	**0.31**	**0.20**	**ug/L**
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	**0.30**	**0.20**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	84	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

HPLC

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC1AE **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	123	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

HPLC

Lot-Sample #...: H2D080126-003 **Work Order #...:** EXJFG1AE **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

HPLC

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP1AE **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	86	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

HPLC

Lot-Sample #...: H2D080126-005 **Work Order #...:** EXJFR1A3 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

HPLC

Lot-Sample #...: H2D090107-001 **Work Order #...:** EXKMG1A3 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

HPLC

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH1AE **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 10 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	5.0	ug/L
RDX	ND	5.0	ug/L
1,3,5-Trinitrobenzene	ND	2.0	ug/L
1,3-Dinitrobenzene	ND	2.0	ug/L
Tetryl	ND	2.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2,4,6-Trinitrotoluene	ND	2.0	ug/L
4-Amino-2,6-dinitrotoluene	ND	2.0	ug/L
2-Amino-4,6-dinitrotoluene	ND	2.0	ug/L
2,6-Dinitrotoluene	ND	2.0	ug/L
2,4-Dinitrotoluene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
4-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

HPLC

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ1AE **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	102	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

HPLC

Lot-Sample #...: H2D090107-004 **Work Order #...:** EXKMK1AE **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	86	(53 - 133)

METHOD BLANK REPORT

HPLC

Client Lot #...: CB001 **Work Order #...:** EXMP51AA **Matrix.....:** WATER
MB Lot-Sample #: H2D100000-165

Prep Date.....: 04/10/02
Analysis Date..: 04/11/02 **Prep Batch #...:** 2100165
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	81	(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 #...: CB001 **Work Order #...:** EXMP51AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-165 EXMP51AD-LCSD
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**78**	**(68 - 122)**			**SW846 8330**
	79	**(68 - 122)**	**0.24**	**(0-25)**	**SW846 8330**
RDX	**85**	**(71 - 127)**			**SW846 8330**
	85	**(71 - 127)**	**0.070**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**81**	**(70 - 124)**			**SW846 8330**
	81	**(70 - 124)**	**0.30**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**80**	**(72 - 124)**			**SW846 8330**
	80	**(72 - 124)**	**0.040**	**(0-25)**	**SW846 8330**
Tetryl	**68**	**(68 - 123)**			**SW846 8330**
	75	**(68 - 123)**	**10**	**(0-26)**	**SW846 8330**
Nitrobenzene	**76**	**(60 - 122)**			**SW846 8330**
	72	**(60 - 122)**	**5.0**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**79**	**(71 - 123)**			**SW846 8330**
	78	**(71 - 123)**	**1.5**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**75**	**(66 - 122)**			**SW846 8330**
	73	**(66 - 122)**	**2.9**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**76**	**(65 - 124)**			**SW846 8330**
	74	**(65 - 124)**	**2.3**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**83**	**(66 - 129)**			**SW846 8330**
	81	**(66 - 129)**	**1.6**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**82**	**(70 - 125)**			**SW846 8330**
	79	**(70 - 125)**	**2.8**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**69**	**(54 - 121)**			**SW846 8330**
	66	**(54 - 121)**	**5.3**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**76**	**(59 - 123)**			**SW846 8330**
	73	**(59 - 123)**	**4.9**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**73**	**(58 - 124)**			**SW846 8330**
	68	**(58 - 124)**	**6.4**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	75	(53 - 133)
	70	(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 #...: CB001 **Work Order #...:** EXMP51AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-165 EXMP51AD-LCSD
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**2.36**	**ug/L**	**78**		**SW846 8330**
	3.00	**2.36**	**ug/L**	**79**	**0.24**	**SW846 8330**
RDX	**3.00**	**2.56**	**ug/L**	**85**		**SW846 8330**
	3.00	**2.56**	**ug/L**	**85**	**0.070**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.43**	**ug/L**	**81**		**SW846 8330**
	3.00	**2.42**	**ug/L**	**81**	**0.30**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.40**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.40**	**ug/L**	**80**	**0.040**	**SW846 8330**
Tetryl	**3.00**	**2.04**	**ug/L**	**68**		**SW846 8330**
	3.00	**2.26**	**ug/L**	**75**	**10**	**SW846 8330**
Nitrobenzene	**3.00**	**2.28**	**ug/L**	**76**		**SW846 8330**
	3.00	**2.17**	**ug/L**	**72**	**5.0**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.38**	**ug/L**	**79**		**SW846 8330**
	3.00	**2.34**	**ug/L**	**78**	**1.5**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.24**	**ug/L**	**75**		**SW846 8330**
	3.00	**2.18**	**ug/L**	**73**	**2.9**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.27**	**ug/L**	**76**		**SW846 8330**
	3.00	**2.22**	**ug/L**	**74**	**2.3**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.48**	**ug/L**	**83**		**SW846 8330**
	3.00	**2.44**	**ug/L**	**81**	**1.6**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.45**	**ug/L**	**82**		**SW846 8330**
	3.00	**2.38**	**ug/L**	**79**	**2.8**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.08**	**ug/L**	**69**		**SW846 8330**
	3.00	**1.97**	**ug/L**	**66**	**5.3**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.29**	**ug/L**	**76**		**SW846 8330**
	3.00	**2.18**	**ug/L**	**73**	**4.9**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.19**	**ug/L**	**73**		**SW846 8330**
	3.00	**2.05**	**ug/L**	**68**	**6.4**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	75	(53 - 133)
	70	(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 #...: CB001 **Work Order #...:** EXFF81DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DN-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**79**	**(61 - 132)**			**SW846 8330**
	86	**(61 - 132)**	**8.3**	**(0-40)**	**SW846 8330**
RDX	**86**	**(30 - 191)**			**SW846 8330**
	92	**(30 - 191)**	**7.1**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**76**	**(70 - 124)**			**SW846 8330**
	82	**(70 - 124)**	**7.9**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**78**	**(72 - 130)**			**SW846 8330**
	83	**(72 - 130)**	**6.5**	**(0-42)**	**SW846 8330**
Tetryl	**0.0**	**(55 - 125)**			**SW846 8330**
	0.0	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**76**	**(59 - 136)**			**SW846 8330**
	78	**(59 - 136)**	**2.4**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**80**	**(71 - 123)**			**SW846 8330**
	86	**(71 - 123)**	**8.0**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**77**	**(66 - 124)**			**SW846 8330**
	78	**(66 - 124)**	**1.1**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**78**	**(64 - 134)**			**SW846 8330**
	80	**(64 - 134)**	**2.3**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**82**	**(66 - 136)**			**SW846 8330**
	87	**(66 - 136)**	**6.1**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**82**	**(70 - 133)**			**SW846 8330**
	87	**(70 - 133)**	**5.5**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**72**	**(54 - 136)**			**SW846 8330**
	73	**(54 - 136)**	**0.45**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**75**	**(59 - 131)**			**SW846 8330**
	76	**(59 - 131)**	**0.94**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**76**	**(58 - 133)**			**SW846 8330**
	77	**(58 - 133)**	**1.5**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	76	(53 - 133)
	77	(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 #...: CB001 **Work Order #...:** EXFF81DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D050115-002 EXFF81DN-MSD
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/11/02
Prep Batch #...: 2100165
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	ND	3.00	2.38	ug/L	79		SW846 8330
	ND	3.00	2.59	ug/L	86	8.3	SW846 8330
RDX	ND	3.00	2.57	ug/L	86		SW846 8330
	ND	3.00	2.76	ug/L	92	7.1	SW846 8330
1,3,5-Trinitrobenzene	ND	3.00	2.27	ug/L	76		SW846 8330
	ND	3.00	2.45	ug/L	82	7.9	SW846 8330
1,3-Dinitrobenzene	ND	3.00	2.34	ug/L	78		SW846 8330
	ND	3.00	2.50	ug/L	83	6.5	SW846 8330
Tetryl	ND	3.00		ug/L	0.0		SW846 8330
	ND	3.00		ug/L	0.0	0.0	SW846 8330
Nitrobenzene	0.076	3.00	2.35	ug/L	76		SW846 8330
	0.076	3.00	2.41	ug/L	78	2.4	SW846 8330
2,4,6-Trinitrotoluene	ND	3.00	2.39	ug/L	80		SW846 8330
	ND	3.00	2.59	ug/L	86	8.0	SW846 8330
4-Amino-2,6-dinitrotoluene	ND	3.00	2.31	ug/L	77		SW846 8330
	ND	3.00	2.33	ug/L	78	1.1	SW846 8330
2-Amino-4,6-dinitrotoluene	ND	3.00	2.34	ug/L	78		SW846 8330
	ND	3.00	2.39	ug/L	80	2.3	SW846 8330
2,6-Dinitrotoluene	ND	3.00	2.47	ug/L	82		SW846 8330
	ND	3.00	2.62	ug/L	87	6.1	SW846 8330
2,4-Dinitrotoluene	ND	3.00	2.46	ug/L	82		SW846 8330
	ND	3.00	2.60	ug/L	87	5.5	SW846 8330
2-Nitrotoluene	ND	3.00	2.17	ug/L	72		SW846 8330
	ND	3.00	2.18	ug/L	73	0.45	SW846 8330
4-Nitrotoluene	ND	3.00	2.24	ug/L	75		SW846 8330
	ND	3.00	2.27	ug/L	76	0.94	SW846 8330
3-Nitrotoluene	ND	3.00	2.29	ug/L	76		SW846 8330
	ND	3.00	2.32	ug/L	77	1.5	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	76	(53 - 133)
	77	(53 - 133)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CB001 **Work Order #...:** EXQTH1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D110000-333

Prep Date.....: 04/12/02
Analysis Date..: 04/16/02 **Prep Batch #...:** 2101333
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	116	(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 #...: CB001 **Work Order #...:** EXQTH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-333 EXQTH1AD-LCSD
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**100**	**(68 - 122)**			**SW846 8330**
	96	**(68 - 122)**	**4.5**	**(0-25)**	**SW846 8330**
RDX	**107**	**(71 - 127)**			**SW846 8330**
	106	**(71 - 127)**	**1.6**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**101**	**(70 - 124)**			**SW846 8330**
	98	**(70 - 124)**	**3.0**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**99**	**(72 - 124)**			**SW846 8330**
	96	**(72 - 124)**	**2.7**	**(0-25)**	**SW846 8330**
Tetryl	**78**	**(68 - 123)**			**SW846 8330**
	76	**(68 - 123)**	**3.3**	**(0-26)**	**SW846 8330**
Nitrobenzene	**70**	**(60 - 122)**			**SW846 8330**
	70	**(60 - 122)**	**0.12**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**91**	**(71 - 123)**			**SW846 8330**
	88	**(71 - 123)**	**2.8**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**90**	**(66 - 122)**			**SW846 8330**
	86	**(66 - 122)**	**5.0**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**94**	**(65 - 124)**			**SW846 8330**
	90	**(65 - 124)**	**4.6**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**104**	**(66 - 129)**			**SW846 8330**
	101	**(66 - 129)**	**3.1**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**98**	**(70 - 125)**			**SW846 8330**
	95	**(70 - 125)**	**3.7**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**59**	**(54 - 121)**			**SW846 8330**
	59	**(54 - 121)**	**0.010**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**72**	**(59 - 123)**			**SW846 8330**
	71	**(59 - 123)**	**1.9**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**67**	**(58 - 124)**			**SW846 8330**
	67	**(58 - 124)**	**0.070**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(53 - 133)
	88	(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 #...: CB001 **Work Order #...:** EXQTH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-333 EXQTH1AD-LCSD
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**3.01**	**ug/L**	**100**		**SW846 8330**
	3.00	**2.88**	**ug/L**	**96**	**4.5**	**SW846 8330**
RDX	**3.00**	**3.22**	**ug/L**	**107**		**SW846 8330**
	3.00	**3.17**	**ug/L**	**106**	**1.6**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**3.04**	**ug/L**	**101**		**SW846 8330**
	3.00	**2.95**	**ug/L**	**98**	**3.0**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.96**	**ug/L**	**99**		**SW846 8330**
	3.00	**2.88**	**ug/L**	**96**	**2.7**	**SW846 8330**
Tetryl	**3.00**	**2.35**	**ug/L**	**78**		**SW846 8330**
	3.00	**2.27**	**ug/L**	**76**	**3.3**	**SW846 8330**
Nitrobenzene	**3.00**	**2.10**	**ug/L**	**70**		**SW846 8330**
	3.00	**2.10**	**ug/L**	**70**	**0.12**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.72**	**ug/L**	**91**		**SW846 8330**
	3.00	**2.64**	**ug/L**	**88**	**2.8**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.71**	**ug/L**	**90**		**SW846 8330**
	3.00	**2.58**	**ug/L**	**86**	**5.0**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.83**	**ug/L**	**94**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**4.6**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**3.13**	**ug/L**	**104**		**SW846 8330**
	3.00	**3.03**	**ug/L**	**101**	**3.1**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.96**	**ug/L**	**98**		**SW846 8330**
	3.00	**2.85**	**ug/L**	**95**	**3.7**	**SW846 8330**
2-Nitrotoluene	**3.00**	**1.76**	**ug/L**	**59**		**SW846 8330**
	3.00	**1.76**	**ug/L**	**59**	**0.010**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.17**	**ug/L**	**72**		**SW846 8330**
	3.00	**2.13**	**ug/L**	**71**	**1.9**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.00**	**ug/L**	**67**		**SW846 8330**
	3.00	**2.00**	**ug/L**	**67**	**0.070**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(53 - 133)
	88	(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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

TOTAL Metals

Lot-Sample #...: H2D050115-001 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**48.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AA**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AC
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AD
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 2.5	
Barium	**23700**	**2000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AE**
		Dilution Factor: 10		Analysis Time..: 14:28	MDL.....: 10.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AF
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AG
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 0.50	
Calcium	**1890000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AH**
		Dilution Factor: 10		Analysis Time..: 14:28	MDL.....: 377	
Chromium	**1.7 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AJ**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.2	
Cobalt	**6.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AK**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 2.3	
Copper	**30.5**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AL**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.9	
Iron	**853**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AM**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AN
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.7	
Magnesium	**884000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AP**
		Dilution Factor: 10		Analysis Time..: 14:28	MDL.....: 218	

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

TOTAL Metals

Lot-Sample #...: H2D050115-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**156**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AQ**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.5	
Nickel	**3.4 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AR**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.9	
Potassium	**86700**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AT**
		Dilution Factor: 10		Analysis Time..: 14:28	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AU
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AV
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.9	
Sodium	**7770000**	**100000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21AW**
		Dilution Factor: 20		Analysis Time..: 15:08	MDL.....: 7140	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21AX
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF21A0
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 1.8	
Zinc	**64.9**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF21A1**
		Dilution Factor: 1		Analysis Time..: 10:47	MDL.....: 2.6	
Prep Batch #...: 2097117						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFF21A2
		Dilution Factor: 1		Analysis Time..: 13:00	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

TOTAL Metals

Lot-Sample #...: H2D050115-002 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**41.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81AA**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81AE
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81AH
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 2.5	
Barium	**434**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81AL**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81AP
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81AT
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 0.50	
Calcium	**173000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81AW**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81A1
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81A4
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81A7
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.9	
Iron	**91.1 B**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81CA**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81CE
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.7	
Magnesium	**68000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81CH**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

TOTAL Metals

Lot-Sample #...: H2D050115-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**68.8**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81CL**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81CP
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.9	
Potassium	**14500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81CT**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81CW
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81C1
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.9	
Sodium	**196000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81C4**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81C7
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFF81DA
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 1.8	
Zinc	**79.5**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFF81DE**
		Dilution Factor: 1		Analysis Time..: 10:52	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFF81DH
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

TOTAL Metals

Lot-Sample #...: H2D050115-003 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**46.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AA**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AC
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AD
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 2.5	
Barium	**422**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AE**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AF
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AG
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 0.50	
Calcium	**169000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AH**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AJ
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AK
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AL
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.9	
Iron	**74.2 B**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AM**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AN
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.7	
Magnesium	**65900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AP**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

TOTAL Metals

Lot-Sample #...: H2D050115-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**65.8**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AQ**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AR
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.9	
Potassium	**14000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AT**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AU
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AV
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.9	
Sodium	**191000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1AW**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1AX
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGE1A0
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 1.8	
Zinc	**77.1**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGE1A1**
		Dilution Factor: 1		Analysis Time..: 11:10	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGE1A2
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

TOTAL Metals

Lot-Sample #...: H2D050115-004 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**31.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AA**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AC
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AD
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 2.5	
Barium	**29.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AE**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AF
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AG
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 0.50	
Calcium	**81500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AH**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AJ
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AK
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 2.3	
Copper	**3.3 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AL**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.9	
Iron	**38.2 B**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AM**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AN
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.7	
Magnesium	**31700**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AP**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

TOTAL Metals

Lot-Sample #...: H2D050115-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**29.0**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AQ**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.5	
Nickel	**6.8 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AR**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.9	
Potassium	**2530 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AT**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AU
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AV
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.9	
Sodium	**23600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1AW**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1AX
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGG1A0
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 1.8	
Zinc	**15.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGG1A1**
		Dilution Factor: 1		Analysis Time..: 11:23	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGG1A2
		Dilution Factor: 1		Analysis Time..: 13:14	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

TOTAL Metals

Lot-Sample #...: H2D050115-005 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**35.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AA**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AC
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AD
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 2.5	
Barium	**1160**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AE**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AF
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AG
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 0.50	
Calcium	**161000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AH**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AJ
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AK
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AL
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AM
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AN
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.7	
Magnesium	**82900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AP**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

TOTAL Metals

Lot-Sample #...: H2D050115-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**14.8 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AQ**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AR
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.9	
Potassium	**47600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AT**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AU
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AV
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.9	
Sodium	**106000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGK1AW**
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1AX
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1A0
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGK1A1
		Dilution Factor: 1		Analysis Time..: 11:28	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGK1A2
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

TOTAL Metals

Lot-Sample #...: H2D050115-006 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**71.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AA**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AC
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AD
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 2.5	
Barium	**620**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AE**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AF
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AG
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 0.50	
Calcium	**123000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AH**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AJ
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AK
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AL
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.9	
Iron	**43.2 B**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AM**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AN
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.7	
Magnesium	**35800**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AP**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

TOTAL Metals

Lot-Sample #...: H2D050115-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**45.1**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AQ**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AR
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.9	
Potassium	**2500 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AT**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AU
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AV
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.9	
Sodium	**19200**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1AW**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1AX
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGP1A0
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 1.8	
Zinc	**20.2**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGP1A1**
		Dilution Factor: 1		Analysis Time..: 11:32	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGP1A2
		Dilution Factor: 1		Analysis Time..: 13:17	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

TOTAL Metals

Lot-Sample #...: H2D050115-007 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**65.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AA**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AC
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AD
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 2.5	
Barium	**575**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AE**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AF
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AG
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 0.50	
Calcium	**116000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AH**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AJ
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AK
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AL
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.9	
Iron	**103**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AM**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AN
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.7	
Magnesium	**33400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AP**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

TOTAL Metals

Lot-Sample #...: H2D050115-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**44.0**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AQ**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AR
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.9	
Potassium	**2230 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AT**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AU
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AV
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.9	
Sodium	**17900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1AW**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1AX
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGT1A0
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 1.8	
Zinc	**19.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGT1A1**
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGT1A2
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

TOTAL Metals

Lot-Sample #...: H2D050115-008 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**56.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AA**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AC
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AD
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 2.5	
Barium	**892**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AE**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AF
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AG
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 0.50	
Calcium	**121000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AH**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AJ
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AK
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 2.3	
Copper	**15.6 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AL**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AM
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AN
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.7	
Magnesium	**41900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AP**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

TOTAL Metals

Lot-Sample #...: H2D050115-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**2.2 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AQ**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.5	
Nickel	**3.5 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AR**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.9	
Potassium	**41500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AT**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AU
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AV
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.9	
Sodium	**88400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1AW**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1AX
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFGX1A0
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 1.8	
Zinc	**31.3**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFGX1A1**
		Dilution Factor: 1		Analysis Time..: 11:41	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFGX1A2
		Dilution Factor: 1		Analysis Time..: 13:22	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

DISSOLVED Metals

Lot-Sample #...: H2D050115-010 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**55.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AA**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AC
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AD
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 2.5	
Barium	**23800**	**2000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AE**
		Dilution Factor: 10		Analysis Time..: 14:41	MDL.....: 10.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AF
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AG
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 0.50	
Calcium	**1910000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AH**
		Dilution Factor: 10		Analysis Time..: 14:41	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AJ
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.2	
Cobalt	**5.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AK**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 2.3	
Copper	**26.5**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AL**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.9	
Iron	**1130**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AM**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AN
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.7	
Magnesium	**888000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AP**
		Dilution Factor: 10		Analysis Time..: 14:41	MDL.....: 218	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

DISSOLVED Metals

Lot-Sample #...: H2D050115-010 | **Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**156**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AQ**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.5	
Nickel	**3.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AR**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.9	
Potassium	**86900**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AT**
		Dilution Factor: 10		Analysis Time..: 14:41	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AU
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AV
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.9	
Sodium	**7830000**	**100000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31AW**
		Dilution Factor: 20		Analysis Time..: 15:12	MDL.....: 7140	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31AX
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG31A0
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 1.8	
Zinc	**59.2**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG31A1**
		Dilution Factor: 1		Analysis Time..: 12:35	MDL.....: 2.6	
Prep Batch #...: 2097118						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFG31A2
		Dilution Factor: 1		Analysis Time..: 11:35	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

DISSOLVED Metals

Lot-Sample #...: H2D050115-011 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**52.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61AL**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61AP
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61AT
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 2.5	
Barium	**452**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61AW**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61A1
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61A4
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 0.50	
Calcium	**176000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61A7**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61CA
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61CE
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61CH
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFG61CL
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61CP
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.7	
Magnesium	**69700**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61CT**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

DISSOLVED Metals

Lot-Sample #...: H2D050115-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**65.6**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61CW**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61C1
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.9	
Potassium	**14900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61C4**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61C7
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61DA
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.9	
Sodium	**196000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61DE**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61DH
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFG61AA
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 1.8	
Zinc	**19.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFG61AE**
		Dilution Factor: 1		Analysis Time..: 12:40	MDL.....: 2.5	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFG61AH
		Dilution Factor: 1		Analysis Time..: 11:37	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

DISSOLVED Metals

Lot-Sample #...: H2D050115-012 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**66.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AH**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AJ
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AK
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 2.5	
Barium	**437**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AL**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AA
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AC
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 0.50	
Calcium	**172000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AD**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AQ
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AR
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AT
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AU
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AV
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.7	
Magnesium	**67600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AW**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3005

DISSOLVED Metals

Lot-Sample #...: H2D050115-012 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**64.1**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AX**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AM
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.9	
Potassium	**13600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AN**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AP
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1A0
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.9	
Sodium	**191000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1A1**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1A2
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHC1AE
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 1.8	
Zinc	**32.8**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHC1AF**
		Dilution Factor: 1		Analysis Time..: 12:58	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFHC1AG
		Dilution Factor: 1		Analysis Time..: 11:43	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

DISSOLVED Metals

Lot-Sample #...: H2D050115-013 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**52.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AL**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AM
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AN
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 2.5	
Barium	**30.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AP**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AE
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AF
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 0.50	
Calcium	**82900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AG**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AU
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AV
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AW
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AX
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1A0
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.7	
Magnesium	**32300**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1A1**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

DISSOLVED Metals

Lot-Sample #...: H2D050115-013 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**23.6**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1A2**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.5	
Nickel	**7.0 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AQ**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.9	
Potassium	**2470 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AR**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AT
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AA
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.9	
Sodium	**24400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AC**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AD
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHD1AH
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 1.8	
Zinc	**17.3 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHD1AJ**
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFHD1AK
		Dilution Factor: 1		Analysis Time..: 11:45	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

DISSOLVED Metals

Lot-Sample #...: H2D050115-014 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**74.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AL**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AM
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AN
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 2.5	
Barium	**1170**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AP**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AE
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AF
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 0.50	
Calcium	**161000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AG**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AU
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AV
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AW
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AX
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1A0
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.7	
Magnesium	**82800**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1A1**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

DISSOLVED Metals

Lot-Sample #...: H2D050115-014 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**16.6**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1A2**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AQ
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.9	
Potassium	**44400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AR**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AT
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AA
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.9	
Sodium	**105000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AC**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AD
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHG1AH
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 1.8	
Zinc	**3.4 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHG1AJ**
		Dilution Factor: 1		Analysis Time..: 13:16	MDL.....: 2.6	
Prep Batch #...: 2097118						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFHG1AK
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

DISSOLVED Metals

Lot-Sample #...: H2D050115-015 Matrix.....: WATER
Date Sampled...: 04/04/02 Date Received..: 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**64.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AP**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AQ
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AR
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 2.5	
Barium	**617**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AT**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AH
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AJ
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 0.50	
Calcium	**121000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AK**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AX
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1A0
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1A1
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1A2
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AA
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.7	
Magnesium	**35700**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AC**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

DISSOLVED Metals

Lot-Sample #...: H2D050115-015 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**43.3**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AD**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AU
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.9	
Potassium	**2470 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AV**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AW
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AE
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.9	
Sodium	**19100**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AF**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AG
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFHQ1AL
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 1.8	
Zinc	**12.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFHQ1AM**
		Dilution Factor: 1		Analysis Time..: 13:20	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFHQ1AN
		Dilution Factor: 1		Analysis Time..: 11:49	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

DISSOLVED Metals

Lot-Sample #...: H2D050115-016 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**77.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AP**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AQ
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AR
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 2.5	
Barium	**631**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AT**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AH
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AJ
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.50	
Calcium	**124000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AK**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AX
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31A0
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31A1
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFH31A2
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AA
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.7	
Magnesium	**36500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AC**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3010

DISSOLVED Metals

Lot-Sample #...: H2D050115-016 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**44.6**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AD**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AU
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.9	
Potassium	**2560 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AV**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AW
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AE
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.9	
Sodium	**19500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AF**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AG
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH31AL
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 1.8	
Zinc	**13.3 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH31AM**
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFH31AN
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

DISSOLVED Metals

Lot-Sample #...: H2D050115-017 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**66.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AT**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AU
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AV
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 2.5	
Barium	**852**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AW**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AL
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AM
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 0.50	
Calcium	**109000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AN**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51A2
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AA
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AC
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AD
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AE
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.7	
Magnesium	**44000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AF**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

DISSOLVED Metals

Lot-Sample #...: H2D050115-017 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**2.5 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AG**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.5	
Nickel	**4.3 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AX**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.9	
Potassium	**42900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51A0**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51A1
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AH
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.9	
Sodium	**92900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AJ**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AK
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXFH51AP
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 1.8	
Zinc	**3.1 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXFH51AQ**
		Dilution Factor: 1		Analysis Time..: 13:29	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXFH51AR
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

TOTAL Metals

Lot-Sample #...: H2D080126-001 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**79.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AA**
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AC
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AD
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 2.5	
Barium	**1290**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AE**
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AF
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AG
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 0.50	
Calcium	**1390000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AH**
		Dilution Factor: 10		Analysis Time..: 14:32	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AJ
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AK
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AL
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AM
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AN
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.7	
Magnesium	**943000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AP**
		Dilution Factor: 10		Analysis Time..: 14:32	MDL.....: 218	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

TOTAL Metals

Lot-Sample #...: H2D080126-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**109**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AQ**
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AR
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.9	
Potassium	**188000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AT**
		Dilution Factor: 10		Analysis Time..: 14:32	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AU
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AV
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.9	
Sodium	**4050000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01AW**
		Dilution Factor: 10		Analysis Time..: 14:32	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01AX
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJE01A0
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 1.8	
Zinc	**48.1**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJE01A1**
		Dilution Factor: 1		Analysis Time..: 11:46	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJE01A2
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

TOTAL Metals

Lot-Sample #...: H2D080126-002 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**39.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1AM**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AN
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AP
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 2.5	
Barium	**82.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1AQ**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AR
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AT
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 0.50	
Calcium	**186000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1AU**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AV
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AW
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AX
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.9	
Iron	**9130**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1A0**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1A1
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.7	
Magnesium	**36700**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1A2**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

TOTAL Metals

Lot-Sample #...: H2D080126-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**872**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1A3**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1A4
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.9	
Potassium	**444 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1A5**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1A6
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1A7
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.9	
Sodium	**4900 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1A8**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1A9
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFC1AA
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 1.8	
Zinc	**35.3**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFC1AC**
		Dilution Factor: 1		Analysis Time..: 11:50	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJFC1AD
		Dilution Factor: 1		Analysis Time..: 13:26	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

TOTAL Metals

Lot-Sample #...: H2D080126-003 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**45.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1AM**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AN
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AP
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 2.5	
Barium	**411**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1AQ**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AR
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AT
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 0.50	
Calcium	**110000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1AU**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AV
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AW
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AX
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A0
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A1
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.7	
Magnesium	**43000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1A2**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

TOTAL Metals

Lot-Sample #...: H2D080126-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**33.8**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1A3**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A4
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.9	
Potassium	**6070**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1A5**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A6
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A7
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.9	
Sodium	**109000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFG1A8**
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1A9
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AA
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFG1AC
		Dilution Factor: 1		Analysis Time..: 11:55	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJFG1AD
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

TOTAL Metals

Lot-Sample #...: H2D080126-004 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**54.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1AM**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AN
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AP
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 2.5	
Barium	**1080**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1AQ**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AR
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AT
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 0.50	
Calcium	**91500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1AU**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AV
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AW
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AX
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A0
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A1
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.7	
Magnesium	**55500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1A2**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

TOTAL Metals

Lot-Sample #...: H2D080126-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**33.2**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1A3**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A4
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.9	
Potassium	**43400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1A5**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A6
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A7
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.9	
Sodium	**435000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1A8**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1A9
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFP1AA
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 1.8	
Zinc	**2.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFP1AC**
		Dilution Factor: 1		Analysis Time..: 11:59	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJFP1AD
		Dilution Factor: 1		Analysis Time..: 13:33	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

TOTAL Metals

Lot-Sample #...: H2D080126-005 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**51.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AA**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AC
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AD
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 2.5	
Barium	**1040**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AE**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AF
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AG
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 0.50	
Calcium	**88000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AH**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AJ
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AK
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AL
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AM
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AN
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.7	
Magnesium	**53400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AP**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

TOTAL Metals

Lot-Sample #...: H2D080126-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**32.1**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AQ**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AR
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.9	
Potassium	**41500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AT**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AU
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AV
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.9	
Sodium	**420000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1AW**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1AX
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJFR1A0
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 1.8	
Zinc	**5.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJFR1A1**
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJFR1A2
		Dilution Factor: 1		Analysis Time..: 13:35	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

DISSOLVED Metals

Lot-Sample #...: H2D080126-007 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**71.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AA**
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AC
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AD
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 2.5	
Barium	**1330**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AE**
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AF
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AG
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 0.50	
Calcium	**1370000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AH**
		Dilution Factor: 10		Analysis Time..: 14:46	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AJ
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AK
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AL
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AM
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AN
		Dilution Factor: 1		Analysis Time..: 14:46	MDL.....: 1.7	
Magnesium	**929000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AP**
		Dilution Factor: 10		Analysis Time..: 14:46	MDL.....: 218	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

DISSOLVED Metals

Lot-Sample #...: H2D080126-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**107**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AQ**
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AR
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.9	
Potassium	**187000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AT**
		Dilution Factor: 10		Analysis Time..: 14:46	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AU
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AV
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.9	
Sodium	**4000000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21AW**
		Dilution Factor: 10		Analysis Time..: 14:46	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21AX
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF21A0
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 1.8	
Zinc	**9.1 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF21A1**
		Dilution Factor: 1		Analysis Time..: 13:34	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJF21A2
		Dilution Factor: 1		Analysis Time..: 11:58	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

DISSOLVED Metals

Lot-Sample #...: H2D080126-008 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**63.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AE**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AF
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AG
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 2.5	
Barium	**78.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AH**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AJ
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AK
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.50	
Calcium	**184000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AL**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AM
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AN
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AP
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.9	
Iron	**5630**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AQ**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AR
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.7	
Magnesium	**36600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AT**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

DISSOLVED Metals

Lot-Sample #...: H2D080126-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**860**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AU**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AV
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.9	
Potassium	**432 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AW**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AX
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81A0
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.9	
Sodium	**5070**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81A1**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81A2
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJF81AA
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.8	
Zinc	**35.4**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJF81AC**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJF81AD
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

DISSOLVED Metals

Lot-Sample #...: H2D080126-009 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**64.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AH**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AJ
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AK
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 2.5	
Barium	**403**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AL**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AM
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AN
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 0.50	
Calcium	**105000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AP**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AQ
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AR
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AT
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AU
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AV
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.7	
Magnesium	**41400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AW**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

DISSOLVED Metals

Lot-Sample #...: H2D080126-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**32.2**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AX**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1A0
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.9	
Potassium	**5790**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1A1**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1A2
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AA
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.9	
Sodium	**106000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGE1AC**
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AD
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AE
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGE1AF
		Dilution Factor: 1		Analysis Time..: 13:45	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJGE1AG
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

DISSOLVED Metals

Lot-Sample #...: H2D080126-010 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**66.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AH**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AJ
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AK
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 2.5	
Barium	**974**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AL**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AM
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AN
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.50	
Calcium	**91800**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AP**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AQ
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AR
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AT
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AU
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AV
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.7	
Magnesium	**52600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AW**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

DISSOLVED Metals

Lot-Sample #...: H2D080126-010 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**51.1**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AX**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1A0
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.9	
Potassium	**38300**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1A1**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1A2
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AA
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.9	
Sodium	**366000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGK1AC**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AD
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AE
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGK1AF
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJGK1AG
		Dilution Factor: 1		Analysis Time..: 12:03	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

DISSOLVED Metals

Lot-Sample #...: H2D080126-011 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**67.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AH**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AJ
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AK
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 2.5	
Barium	**1010**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AL**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AM
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AN
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.50	
Calcium	**87800**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AP**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AQ
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AR
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AT
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AU
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AV
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.7	
Magnesium	**52600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AW**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3020

DISSOLVED Metals

Lot-Sample #...: H2D080126-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**36.7**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AX**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1A0
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.9	
Potassium	**40100**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1A1**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1A2
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AA
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.9	
Sodium	**399000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXJGL1AC**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AD
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AE
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXJGL1AF
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXJGL1AG
		Dilution Factor: 1		Analysis Time..: 12:06	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

TOTAL Metals

Lot-Sample #...: H2D090107-001 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**2380**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AA**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AC
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AD
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 2.5	
Barium	**13.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AE**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.0	
Beryllium	**0.82 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AF**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 0.50	
Cadmium	**0.59 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AG**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 0.50	
Calcium	**125000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AH**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AJ
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.2	
Cobalt	**47.3 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AK**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 2.3	
Copper	**7.4 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AL**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.9	
Iron	**11300**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AM**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 36.1	
Lead	**1.9 B**	**3.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AN**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.7	
Magnesium	**48600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AP**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

TOTAL Metals

Lot-Sample #...: H2D090107-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**8520**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AQ**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.5	
Nickel	**80.4**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AR**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.9	
Potassium	**1360 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AT**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AU
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AV
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.9	
Sodium	**6030**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1AW**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMG1AX
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 4.8	
Vanadium	**2.0 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1A0**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 1.8	
Zinc	**59.8**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMG1A1**
		Dilution Factor: 1		Analysis Time..: 12:17	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMG1A2
		Dilution Factor: 1		Analysis Time..: 13:37	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

TOTAL Metals

Lot-Sample #...: H2D090107-002 Matrix.....: WATER
Date Sampled...: 04/08/02 Date Received..: 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	87.5 B	200	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AJ
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AK
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 7.0	
Arsenic	9.5 B	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AL
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 2.5	
Barium	51.4 B	200	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AM
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AN
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AP
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 0.50	
Calcium	325000	5000	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AQ
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 37.7	
Chromium	3.4 B	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AR
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.2	
Cobalt	267	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AT
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 2.3	
Copper	94.8	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AU
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.9	
Iron	438	100	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AV
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 36.1	
Lead	3.6	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AW
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.7	
Magnesium	230000	5000	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1AX
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

TOTAL Metals

Lot-Sample #...: H2D090107-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**136**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1A0**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.5	
Nickel	**278**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1A1**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.9	
Potassium	**56800**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1A2**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 158	
Selenium	**7.8**	**5.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1A3**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1A4
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.9	
Sodium	**1020000**	**50000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1A5**
		Dilution Factor: 10		Analysis Time..: 14:37	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMH1A6
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 4.8	
Vanadium	**5.5 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1AA**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 1.8	
Zinc	**64.8**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMH1AC**
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMH1AD
		Dilution Factor: 1		Analysis Time..: 13:39	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

TOTAL Metals

Lot-Sample #...: H2D090107-003 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**163 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AJ**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AK
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AL
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.5	
Barium	**39.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AM**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AN
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AP
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 0.50	
Calcium	**76500**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AQ**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AR
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AT
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AU
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Iron	**6560**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AV**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AW
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.7	
Magnesium	**22900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AX**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

TOTAL Metals

Lot-Sample #...: H2D090107-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**634**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1A0**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1A1
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Potassium	**851 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1A2**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1A3
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1A4
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Sodium	**6660**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1A5**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1A6
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMJ1AA
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.8	
Zinc	**51.3**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMJ1AC**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMJ1AD
		Dilution Factor: 1		Analysis Time..: 13:41	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

TOTAL Metals

Lot-Sample #...: H2D090107-004 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097115						
Aluminum	**164 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AJ**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AK
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AL
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 2.5	
Barium	**24.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AM**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AN
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AP
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 0.50	
Calcium	**122000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AQ**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AR
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AT
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AU
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.9	
Iron	**199**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AV**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AW
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.7	
Magnesium	**22200**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AX**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

TOTAL Metals

Lot-Sample #...: H2D090107-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**56.3**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1A0**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.5	
Nickel	**2.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1A1**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.9	
Potassium	**451 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1A2**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1A3
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1A4
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.9	
Sodium	**29600**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1A5**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1A6
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMK1AA
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 1.8	
Zinc	**2.8 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMK1AC**
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 2.6	

Prep Batch #...: 2097117

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMK1AD
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

DISSOLVED Metals

Lot-Sample #...: H2D090107-006 Matrix.....: WATER
Date Sampled...: 04/08/02 Date Received..: 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**1480**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AA**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AC
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AD
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 2.5	
Barium	**8.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AE**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.0	
Beryllium	**0.76 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AF**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AG
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 0.50	
Calcium	**127000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AH**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AJ
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.2	
Cobalt	**45.3 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AK**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 2.3	
Copper	**3.2 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AL**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.9	
Iron	**695**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AM**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AN
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.7	
Magnesium	**47900**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AP**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

DISSOLVED Metals

Lot-Sample #...: H2D090107-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**8290**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AQ**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.5	
Nickel	**76.0**	**40.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AR**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.9	
Potassium	**1120 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AT**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AU
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AV
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.9	
Sodium	**6040**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1AW**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1AX
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMN1A0
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 1.8	
Zinc	**70.1**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMN1A1**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMN1A2
		Dilution Factor: 1		Analysis Time..: 12:07	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

DISSOLVED Metals

Lot-Sample #...: H2D090107-007 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**94.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AE**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AF
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 7.0	
Arsenic	**9.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AG**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 2.5	
Barium	**51.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AH**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AJ
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AK
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 0.50	
Calcium	**321000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AL**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 37.7	
Chromium	**3.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AM**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.2	
Cobalt	**265**	**50.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AN**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 2.3	
Copper	**92.0**	**25.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AP**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.9	
Iron	417	100	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AQ
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 36.1	
Lead	**3.6**	**3.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AR**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.7	
Magnesium	**229000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMP1AT**
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

DISSOLVED Metals

Lot-Sample #...: H2D090107-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	136	15.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AU
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.5	
Nickel	276	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AV
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.9	
Potassium	57000	5000	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AW
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 158	
Selenium	7.4	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AX
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1A0
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.9	
Sodium	1010000	50000	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1A1
		Dilution Factor: 10		Analysis Time..: 14:50	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1A2
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 4.8	
Vanadium	5.8 B	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AA
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 1.8	
Zinc	68.2	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMP1AC
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMP1AD
		Dilution Factor: 1		Analysis Time..: 12:09	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

DISSOLVED Metals

Lot-Sample #...: H2D090107-008 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**68.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AH**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AJ
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AK
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 2.5	
Barium	**39.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AL**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AM
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AN
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 0.50	
Calcium	**78000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AP**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AQ
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AR
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AT
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.9	
Iron	**5550**	**100**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AU**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AV
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.7	
Magnesium	**23400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AW**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

DISSOLVED Metals

Lot-Sample #...: H2D090107-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**641**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AX**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1A0
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.9	
Potassium	**850 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1A1**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1A2
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AA
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.9	
Sodium	**6840**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AC**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AD
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMQ1AE
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 1.8	
Zinc	**45.9**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMQ1AF**
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMQ1AG
		Dilution Factor: 1		Analysis Time..: 12:11	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

DISSOLVED Metals

Lot-Sample #...: H2D090107-009 **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2097116						
Aluminum	**70.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AL**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AM
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AN
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 2.5	
Barium	**21.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AP**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AQ
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AR
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 0.50	
Calcium	**117000**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AT**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AU
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AV
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AW
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AX
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1A0
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.7	
Magnesium	**21200**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1A1**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

DISSOLVED Metals

Lot-Sample #...: H2D090107-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**24.2**	**15.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1A2**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AA
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.9	
Potassium	**326 B**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AC**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AD
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AE
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.9	
Sodium	**28400**	**5000**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AF**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AG
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXKMR1AH
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 1.8	
Zinc	**16.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/10-04/11/02**	**EXKMR1AJ**
		Dilution Factor: 1		Analysis Time..: 14:23	MDL.....: 2.6	

Prep Batch #...: 2097118

Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXKMR1AK
		Dilution Factor: 1		Analysis Time..: 12:16	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D070000-115 **Prep Batch #...:** 2097115						
Aluminum	ND	200	ug/L	SW846 6010B	04/10-04/11/02	EXH361AA
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AC
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AD
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Barium	ND	200	ug/L	SW846 6010B	04/10-04/11/02	EXH361AE
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AF
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AG
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Calcium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH361AH
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AJ
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AK
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AL
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXH361AM
		Dilution Factor: 1				
		Analysis Time..: 10:29				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AN
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Magnesium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH361AP
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Manganese	ND	15.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AQ
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AR
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Potassium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH361AT
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AU
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AV
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Sodium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH361AW
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361AX
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361A0
		Dilution Factor: 1				
		Analysis Time..: 10:29				
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXH361A1
		Dilution Factor: 1				
		Analysis Time..: 10:29				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D070000-117 **Prep Batch #...:** 2097117						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXH4A1AA
		Dilution Factor: 1				
		Analysis Time..: 12:56				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D070000-115 **Prep Batch #...:** 2097115					
Aluminum	107	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A2
Antimony	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A3
Arsenic	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A4
Barium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A5
Beryllium	107	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A6
Cadmium	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A7
Calcium	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A8
Chromium	105	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361A9
Cobalt	105	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361CA
Copper	102	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:34	04/10-04/11/02	EXH361CC

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CD
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Lead	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CE
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Magnesium	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CF
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Manganese	107	(90 - 111)	SW846 6010B	04/10-04/11/02	EXH361CG
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Nickel	104	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CH
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Potassium	106	(89 - 110)	SW846 6010B	04/10-04/11/02	EXH361CJ
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Selenium	106	(90 - 114)	SW846 6010B	04/10-04/11/02	EXH361CK
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Silver	102	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CL
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Sodium	102	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CM
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Thallium	105	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CN
		Dilution Factor: 1			
		Analysis Time..: 10:34			
Vanadium	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH361CP
		Dilution Factor: 1			
		Analysis Time..: 10:34			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	111	(90 - 115)	SW846 6010B	04/10-04/11/02	EXH361CQ
		Dilution Factor: 1			
		Analysis Time..: 10:34			

LCS Lot-Sample#: H2D070000-117 **Prep Batch #...:** 2097117

Mercury	103	(90 - 110)	SW846 7470A	04/10/02	EXH4A1AC
		Dilution Factor: 1			
		Analysis Time..: 12:58			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER

LCS Lot-Sample#: H2D070000-115 **Prep Batch #...:** 2097115

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	2000	2130	ug/L	107	SW846 6010B	04/10-04/11/02	EXH361A2
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Antimony	500	513	ug/L	103	SW846 6010B	04/10-04/11/02	EXH361A3
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Arsenic	2000	2090	ug/L	104	SW846 6010B	04/10-04/11/02	EXH361A4
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Barium	2000	2040	ug/L	102	SW846 6010B	04/10-04/11/02	EXH361A5
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Beryllium	50.0	53.6	ug/L	107	SW846 6010B	04/10-04/11/02	EXH361A6
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Cadmium	50.0	52.0	ug/L	104	SW846 6010B	04/10-04/11/02	EXH361A7
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Calcium	50000	51900	ug/L	104	SW846 6010B	04/10-04/11/02	EXH361A8
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Chromium	200	209	ug/L	105	SW846 6010B	04/10-04/11/02	EXH361A9
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Cobalt	500	525	ug/L	105	SW846 6010B	04/10-04/11/02	EXH361CA
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Copper	250	256	ug/L	102	SW846 6010B	04/10-04/11/02	EXH361CC
			Dilution Factor: 1				
			Analysis Time..: 10:34				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	1030	ug/L	103	SW846 6010B	04/10-04/11/02	EXH361CD
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Lead	500	515	ug/L	103	SW846 6010B	04/10-04/11/02	EXH361CE
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Magnesium	50000	51300	ug/L	103	SW846 6010B	04/10-04/11/02	EXH361CF
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Manganese	500	533	ug/L	107	SW846 6010B	04/10-04/11/02	EXH361CG
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Nickel	500	519	ug/L	104	SW846 6010B	04/10-04/11/02	EXH361CH
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Potassium	50000	53100	ug/L	106	SW846 6010B	04/10-04/11/02	EXH361CJ
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Selenium	2000	2120	ug/L	106	SW846 6010B	04/10-04/11/02	EXH361CK
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Silver	50.0	51.1	ug/L	102	SW846 6010B	04/10-04/11/02	EXH361CL
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Sodium	50000	51200	ug/L	102	SW846 6010B	04/10-04/11/02	EXH361CM
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Thallium	2000	2110	ug/L	105	SW846 6010B	04/10-04/11/02	EXH361CN
			Dilution Factor: 1				
			Analysis Time..: 10:34				
Vanadium	500	516	ug/L	103	SW846 6010B	04/10-04/11/02	EXH361CP
			Dilution Factor: 1				
			Analysis Time..: 10:34				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	553	ug/L	111	SW846 6010B	04/10-04/11/02	EXH361CQ
			Dilution Factor: 1				
			Analysis Time..: 10:34				

LCS Lot-Sample#: H2D070000-117 **Prep Batch #...:** 2097117

Mercury	0.00500	0.00515	mg/L	103	SW846 7470A	04/10/02	EXH4A1AC
			Dilution Factor: 1				
			Analysis Time..: 12:58				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D050115-002 **Prep Batch #...:** 2097115							
Aluminum	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AC
	102	(75 - 125)	2.0	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AD
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Antimony	102	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AF
	100	(75 - 125)	1.9	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AG
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Arsenic	103	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AJ
	101	(75 - 125)	2.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AK
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Barium	99	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AM
	96	(75 - 125)	2.0	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AN
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Beryllium	103	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AQ
	100	(75 - 125)	2.0	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AR
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Cadmium	99	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AU
	96	(75 - 125)	2.7	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81AV
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Calcium	99	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81AX
	90	(75 - 125)	2.2	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81A0
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Chromium	100	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81A2
	98	(75 - 125)	2.3	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81A3
		Dilution Factor: 1					
		Analysis Time..: 10:56					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 Matrix.....: WATER
Date Sampled...: 04/03/02 Date Received..: 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81A5
	98	(75 - 125)	2.3	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81A6
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Copper	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81A8
	99	(75 - 125)	2.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81A9
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Iron	100	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CC
	96	(75 - 125)	3.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CD
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Lead	99	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CF
	97	(75 - 125)	2.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CG
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Magnesium	102	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CJ
	97	(75 - 125)	2.3	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CK
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Manganese	102	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CM
	100	(75 - 125)	2.3	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CN
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Nickel	98	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CQ
	96	(75 - 125)	2.4	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CR
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Potassium	117	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CU
	114	(75 - 125)	2.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81CV
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Selenium	94	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81CX
	91	(75 - 125)	3.2	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81C0
		Dilution Factor: 1					
		Analysis Time..: 10:56					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81C2
	99	(75 - 125)	2.0	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81C3
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Sodium	106	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81C5
	97	(75 - 125)	1.9	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81C6
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Thallium	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81C8
	99	(75 - 125)	1.8	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81C9
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Vanadium	100	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81DC
	97	(75 - 125)	2.2	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81DD
		Dilution Factor: 1					
		Analysis Time..: 10:56					
Zinc	107	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFF81DF
	105	(75 - 125)	2.2	(0-20)	SW846 6010B	04/10-04/11/02	EXFF81DG
		Dilution Factor: 1					
		Analysis Time..: 10:56					

MS Lot-Sample #: H2D050115-002 **Prep Batch #...:** 2097117

Mercury	104	(73 - 125)			SW846 7470A	04/10/02	EXFF81DJ
	106	(73 - 125)	1.9	(0-20)	SW846 7470A	04/10/02	EXFF81DK
		Dilution Factor: 1					
		Analysis Time..: 13:05					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

MS Lot-Sample #: H2D050115-002 **Prep Batch #...:** 2097115

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	41.3	2000	2120	ug/L	104		SW846 6010B	04/10-04/11/02	EXFF81AC
	41.3	2000	2080	ug/L	102	2.0	SW846 6010B	04/10-04/11/02	EXFF81AD
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Antimony									
	ND	500	510	ug/L	102		SW846 6010B	04/10-04/11/02	EXFF81AF
	ND	500	501	ug/L	100	1.9	SW846 6010B	04/10-04/11/02	EXFF81AG
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Arsenic									
	ND	2000	2050	ug/L	103		SW846 6010B	04/10-04/11/02	EXFF81AJ
	ND	2000	2010	ug/L	101	2.1	SW846 6010B	04/10-04/11/02	EXFF81AK
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Barium									
	434	2000	2410	ug/L	99		SW846 6010B	04/10-04/11/02	EXFF81AM
	434	2000	2360	ug/L	96	2.0	SW846 6010B	04/10-04/11/02	EXFF81AN
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Beryllium									
	ND	50.0	51.3	ug/L	103		SW846 6010B	04/10-04/11/02	EXFF81AQ
	ND	50.0	50.2	ug/L	100	2.0	SW846 6010B	04/10-04/11/02	EXFF81AR
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Cadmium									
	ND	50.0	49.4	ug/L	99		SW846 6010B	04/10-04/11/02	EXFF81AU
	ND	50.0	48.0	ug/L	96	2.7	SW846 6010B	04/10-04/11/02	EXFF81AV
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Calcium									
	173000	50000	222000	ug/L	99		SW846 6010B	04/10-04/11/02	EXFF81AX
	173000	50000	218000	ug/L	90	2.2	SW846 6010B	04/10-04/11/02	EXFF81A0
			Dilution Factor: 1						
			Analysis Time..: 10:56						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	200	ug/L	100		SW846 6010B	04/10-04/11/02	EXFF81A2
	ND	200	195	ug/L	98	2.3	SW846 6010B	04/10-04/11/02	EXFF81A3
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Cobalt									
	ND	500	503	ug/L	101		SW846 6010B	04/10-04/11/02	EXFF81A5
	ND	500	492	ug/L	98	2.3	SW846 6010B	04/10-04/11/02	EXFF81A6
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Copper									
	ND	250	253	ug/L	101		SW846 6010B	04/10-04/11/02	EXFF81A8
	ND	250	247	ug/L	99	2.1	SW846 6010B	04/10-04/11/02	EXFF81A9
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Iron									
	91.1	1000	1090	ug/L	100		SW846 6010B	04/10-04/11/02	EXFF81CC
	91.1	1000	1050	ug/L	96	3.1	SW846 6010B	04/10-04/11/02	EXFF81CD
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Lead									
	ND	500	495	ug/L	99		SW846 6010B	04/10-04/11/02	EXFF81CF
	ND	500	485	ug/L	97	2.1	SW846 6010B	04/10-04/11/02	EXFF81CG
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Magnesium									
	68000	50000	119000	ug/L	102		SW846 6010B	04/10-04/11/02	EXFF81CJ
	68000	50000	116000	ug/L	97	2.3	SW846 6010B	04/10-04/11/02	EXFF81CK
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Manganese									
	68.8	500	581	ug/L	102		SW846 6010B	04/10-04/11/02	EXFF81CM
	68.8	500	567	ug/L	100	2.3	SW846 6010B	04/10-04/11/02	EXFF81CN
			Dilution Factor: 1						
			Analysis Time..: 10:56						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	490	ug/L	98		SW846 6010B	04/10-04/11/02	EXFF81CQ
	ND	500	478	ug/L	96	2.4	SW846 6010B	04/10-04/11/02	EXFF81CR
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Potassium									
	14500	50000	72800	ug/L	117		SW846 6010B	04/10-04/11/02	EXFF81CU
	14500	50000	71300	ug/L	114	2.1	SW846 6010B	04/10-04/11/02	EXFF81CV
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Selenium									
	ND	2000	1880	ug/L	94		SW846 6010B	04/10-04/11/02	EXFF81CX
	ND	2000	1820	ug/L	91	3.2	SW846 6010B	04/10-04/11/02	EXFF81C0
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Silver									
	ND	50.0	50.4	ug/L	101		SW846 6010B	04/10-04/11/02	EXFF81C2
	ND	50.0	49.4	ug/L	99	2.0	SW846 6010B	04/10-04/11/02	EXFF81C3
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Sodium									
	196000	50000	249000	ug/L	106		SW846 6010B	04/10-04/11/02	EXFF81C5
	196000	50000	244000	ug/L	97	1.9	SW846 6010B	04/10-04/11/02	EXFF81C6
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Thallium									
	ND	2000	2030	ug/L	101		SW846 6010B	04/10-04/11/02	EXFF81C8
	ND	2000	1990	ug/L	99	1.8	SW846 6010B	04/10-04/11/02	EXFF81C9
			Dilution Factor: 1						
			Analysis Time..: 10:56						
Vanadium									
	ND	500	498	ug/L	100		SW846 6010B	04/10-04/11/02	EXFF81DC
	ND	500	487	ug/L	97	2.2	SW846 6010B	04/10-04/11/02	EXFF81DD
			Dilution Factor: 1						
			Analysis Time..: 10:56						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	79.5	500	616	ug/L	107		SW846 6010B	04/10-04/11/02	EXFF81DF
	79.5	500	602	ug/L	105	2.2	SW846 6010B	04/10-04/11/02	EXFF81DG

Dilution Factor: 1
Analysis Time..: 10:56

MS Lot-Sample #: H2D050115-002 **Prep Batch #...:** 2097117

Mercury									
	ND	0.00100	0.00104	mg/L	104		SW846 7470A	04/10/02	EXFF81DJ
	ND	0.00100	0.00106	mg/L	106	1.9	SW846 7470A	04/10/02	EXFF81DK

Dilution Factor: 1
Analysis Time..: 13:05

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER

MB Lot-Sample #: H2D070000-116 **Prep Batch #...:** 2097116

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	ND	200	ug/L	SW846 6010B	04/10-04/11/02	EXH381AD
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Antimony	ND	60.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AE
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AF
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Barium	ND	200	ug/L	SW846 6010B	04/10-04/11/02	EXH381AG
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AH
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AJ
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Calcium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH381AK
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AL
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AM
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Copper	ND	25.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AN
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Iron	ND	100	ug/L	SW846 6010B	04/10-04/11/02	EXH381AP
		Dilution Factor: 1				
		Analysis Time..: 10:38				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AQ
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Magnesium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH381AR
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Manganese	ND	15.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AT
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Nickel	ND	40.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AU
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Potassium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH381AV
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Selenium	ND	5.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AW
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Silver	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AX
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Sodium	ND	5000	ug/L	SW846 6010B	04/10-04/11/02	EXH381A0
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Thallium	ND	10.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381A1
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AA
		Dilution Factor: 1				
		Analysis Time..: 10:38				
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/11/02	EXH381AC
		Dilution Factor: 1				
		Analysis Time..: 10:38				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D070000-118 **Prep Batch #...:** 2097118						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/10/02	EXH4D1AA
		Dilution Factor: 1				
		Analysis Time..: 11:31				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D070000-116 **Prep Batch #...:** 2097116					
Aluminum	106	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A4
Antimony	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A5
Arsenic	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A6
Barium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A7
Beryllium	107	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A8
Cadmium	105	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381A9
Calcium	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381CA
Chromium	105	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381CC
Cobalt	105	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381CD
Copper	102	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:43	04/10-04/11/02	EXH381CE

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	104	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CF
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Lead	104	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CG
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Magnesium	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CH
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Manganese	107	(90 - 111)	SW846 6010B	04/10-04/11/02	EXH381CJ
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Nickel	104	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CK
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Potassium	106	(89 - 110)	SW846 6010B	04/10-04/11/02	EXH381CL
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Selenium	107	(90 - 114)	SW846 6010B	04/10-04/11/02	EXH381CM
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Silver	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CN
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Sodium	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CP
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Thallium	105	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381CQ
		Dilution Factor: 1			
		Analysis Time..: 10:43			
Vanadium	103	(90 - 110)	SW846 6010B	04/10-04/11/02	EXH381A2
		Dilution Factor: 1			
		Analysis Time..: 10:43			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	110	(90 - 115)	SW846 6010B	04/10-04/11/02	EXH381A3
		Dilution Factor: 1			
		Analysis Time..: 10:43			

LCS Lot-Sample#: H2D070000-118 **Prep Batch #...:** 2097118

Mercury	103	(90 - 110)	SW846 7470A	04/10/02	EXH4D1AC
		Dilution Factor: 1			
		Analysis Time..: 11:33			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER

LCS Lot-Sample#: H2D070000-116 **Prep Batch #...:** 2097116

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	2000	2120	ug/L	106	SW846 6010B	04/10-04/11/02	EXH381A4
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Antimony	500	516	ug/L	103	SW846 6010B	04/10-04/11/02	EXH381A5
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Arsenic	2000	2080	ug/L	104	SW846 6010B	04/10-04/11/02	EXH381A6
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Barium	2000	2040	ug/L	102	SW846 6010B	04/10-04/11/02	EXH381A7
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Beryllium	50.0	53.6	ug/L	107	SW846 6010B	04/10-04/11/02	EXH381A8
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Cadmium	50.0	52.3	ug/L	105	SW846 6010B	04/10-04/11/02	EXH381A9
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Calcium	50000	52000	ug/L	104	SW846 6010B	04/10-04/11/02	EXH381CA
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Chromium	200	210	ug/L	105	SW846 6010B	04/10-04/11/02	EXH381CC
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Cobalt	500	526	ug/L	105	SW846 6010B	04/10-04/11/02	EXH381CD
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Copper	250	256	ug/L	102	SW846 6010B	04/10-04/11/02	EXH381CE
			Dilution Factor: 1				
			Analysis Time..: 10:43				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	1040	ug/L	104	SW846 6010B	04/10-04/11/02	EXH381CF
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Lead	500	521	ug/L	104	SW846 6010B	04/10-04/11/02	EXH381CG
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Magnesium	50000	51300	ug/L	103	SW846 6010B	04/10-04/11/02	EXH381CH
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Manganese	500	533	ug/L	107	SW846 6010B	04/10-04/11/02	EXH381CJ
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Nickel	500	520	ug/L	104	SW846 6010B	04/10-04/11/02	EXH381CK
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Potassium	50000	52800	ug/L	106	SW846 6010B	04/10-04/11/02	EXH381CL
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Selenium	2000	2140	ug/L	107	SW846 6010B	04/10-04/11/02	EXH381CM
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Silver	50.0	51.7	ug/L	103	SW846 6010B	04/10-04/11/02	EXH381CN
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Sodium	50000	51300	ug/L	103	SW846 6010B	04/10-04/11/02	EXH381CP
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Thallium	2000	2100	ug/L	105	SW846 6010B	04/10-04/11/02	EXH381CQ
			Dilution Factor: 1				
			Analysis Time..: 10:43				
Vanadium	500	517	ug/L	103	SW846 6010B	04/10-04/11/02	EXH381A2
			Dilution Factor: 1				
			Analysis Time..: 10:43				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	552	ug/L	110	SW846 6010B	04/10-04/11/02	EXH381A3
			Dilution Factor: 1				
			Analysis Time..: 10:43				

LCS Lot-Sample#: H2D070000-118 **Prep Batch #...:** 2097118

Mercury	0.00500	0.00515	mg/L	103	SW846 7470A	04/10/02	EXH4D1AC
			Dilution Factor: 1				
			Analysis Time..: 11:33				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D050115-011 **Prep Batch #...:** 2097116							
Aluminum	108	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AM
	108	(75 - 125)	0.06	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61AN
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Antimony	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AQ
	105	(75 - 125)	0.16	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61AR
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Arsenic	106	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AU
	106	(75 - 125)	0.06	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61AV
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Barium	102	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AX
	102	(75 - 125)	0.07	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61A0
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Beryllium	105	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61A2
	105	(75 - 125)	0.22	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61A3
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Cadmium	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61A5
	101	(75 - 125)	0.35	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61A6
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Calcium	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61A8
	108	(75 - 125)	1.0	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61A9
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Chromium	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CC
	101	(75 - 125)	0.02	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CD
		Dilution Factor: 1					
		Analysis Time..: 12:44					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 Matrix.....: WATER
Date Sampled...: 04/03/02 Date Received..: 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	103	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CF
	103	(75 - 125)	0.18	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CG
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Copper	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CJ
	104	(75 - 125)	0.03	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CK
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Iron	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CM
	106	(75 - 125)	1.4	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CN
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Lead	101	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CQ
	101	(75 - 125)	0.40	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CR
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Magnesium	106	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CU
	109	(75 - 125)	0.94	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61CV
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Manganese	105	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61CX
	105	(75 - 125)	0.18	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61C0
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Nickel	100	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61C2
	100	(75 - 125)	0.15	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61C3
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Potassium	119	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61C5
	119	(75 - 125)	0.09	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61C6
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Selenium	99	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61C8
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61C9
		Dilution Factor: 1					
		Analysis Time..: 12:44					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	104	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61DC
	104	(75 - 125)	0.15	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61DD
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Sodium	109	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61DF
	114	(75 - 125)	0.85	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61DG
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Thallium	103	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61DJ
	103	(75 - 125)	0.03	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61DK
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Vanadium	102	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AC
	102	(75 - 125)	0.11	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61AD
		Dilution Factor: 1					
		Analysis Time..: 12:44					
Zinc	111	(75 - 125)			SW846 6010B	04/10-04/11/02	EXFG61AF
	111	(75 - 125)	0.36	(0-20)	SW846 6010B	04/10-04/11/02	EXFG61AG
		Dilution Factor: 1					
		Analysis Time..: 12:44					

MS Lot-Sample #: H2D050115-011 **Prep Batch #...:** 2097118

Mercury	98	(73 - 125)			SW846 7470A	04/10/02	EXFG61AJ
	92	(73 - 125)	5.3	(0-20)	SW846 7470A	04/10/02	EXFG61AK
		Dilution Factor: 1					
		Analysis Time..: 11:40					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D050115-011 **Prep Batch #...:** 2097116									
Aluminum									
	52.7	2000	2210	ug/L	108		SW846 6010B	04/10-04/11/02	EXFG61AM
	52.7	2000	2210	ug/L	108	0.06	SW846 6010B	04/10-04/11/02	EXFG61AN
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Antimony									
	ND	500	522	ug/L	104		SW846 6010B	04/10-04/11/02	EXFG61AQ
	ND	500	523	ug/L	105	0.16	SW846 6010B	04/10-04/11/02	EXFG61AR
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Arsenic									
	ND	2000	2110	ug/L	106		SW846 6010B	04/10-04/11/02	EXFG61AU
	ND	2000	2120	ug/L	106	0.06	SW846 6010B	04/10-04/11/02	EXFG61AV
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Barium									
	452	2000	2490	ug/L	102		SW846 6010B	04/10-04/11/02	EXFG61AX
	452	2000	2490	ug/L	102	0.07	SW846 6010B	04/10-04/11/02	EXFG61A0
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Beryllium									
	ND	50.0	52.5	ug/L	105		SW846 6010B	04/10-04/11/02	EXFG61A2
	ND	50.0	52.6	ug/L	105	0.22	SW846 6010B	04/10-04/11/02	EXFG61A3
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Cadmium									
	ND	50.0	50.4	ug/L	101		SW846 6010B	04/10-04/11/02	EXFG61A5
	ND	50.0	50.5	ug/L	101	0.35	SW846 6010B	04/10-04/11/02	EXFG61A6
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Calcium									
	176000	50000	227000	ug/L	104		SW846 6010B	04/10-04/11/02	EXFG61A8
	176000	50000	230000	ug/L	108	1.0	SW846 6010B	04/10-04/11/02	EXFG61A9
			Dilution Factor: 1						
			Analysis Time..: 12:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	202	ug/L	101		SW846 6010B	04/10-04/11/02	EXFG61CC
	ND	200	202	ug/L	101	0.02	SW846 6010B	04/10-04/11/02	EXFG61CD
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Cobalt									
	ND	500	514	ug/L	103		SW846 6010B	04/10-04/11/02	EXFG61CF
	ND	500	515	ug/L	103	0.18	SW846 6010B	04/10-04/11/02	EXFG61CG
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Copper									
	ND	250	259	ug/L	104		SW846 6010B	04/10-04/11/02	EXFG61CJ
	ND	250	259	ug/L	104	0.03	SW846 6010B	04/10-04/11/02	EXFG61CK
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Iron									
	ND	1000	1040	ug/L	104		SW846 6010B	04/10-04/11/02	EXFG61CM
	ND	1000	1060	ug/L	106	1.4	SW846 6010B	04/10-04/11/02	EXFG61CN
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Lead									
	ND	500	503	ug/L	101		SW846 6010B	04/10-04/11/02	EXFG61CQ
	ND	500	505	ug/L	101	0.40	SW846 6010B	04/10-04/11/02	EXFG61CR
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Magnesium									
	69700	50000	123000	ug/L	106		SW846 6010B	04/10-04/11/02	EXFG61CU
	69700	50000	124000	ug/L	109	0.94	SW846 6010B	04/10-04/11/02	EXFG61CV
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Manganese									
	65.6	500	590	ug/L	105		SW846 6010B	04/10-04/11/02	EXFG61CX
	65.6	500	591	ug/L	105	0.18	SW846 6010B	04/10-04/11/02	EXFG61C0
			Dilution Factor: 1						
			Analysis Time..: 12:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	501	ug/L	100		SW846 6010B	04/10-04/11/02	EXFG61C2
	ND	500	500	ug/L	100	0.15	SW846 6010B	04/10-04/11/02	EXFG61C3
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Potassium									
	14900	50000	74600	ug/L	119		SW846 6010B	04/10-04/11/02	EXFG61C5
	14900	50000	74600	ug/L	119	0.09	SW846 6010B	04/10-04/11/02	EXFG61C6
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Selenium									
	ND	2000	1980	ug/L	99		SW846 6010B	04/10-04/11/02	EXFG61C8
	ND	2000	1960	ug/L	98	1.1	SW846 6010B	04/10-04/11/02	EXFG61C9
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Silver									
	ND	50.0	51.8	ug/L	104		SW846 6010B	04/10-04/11/02	EXFG61DC
	ND	50.0	51.8	ug/L	104	0.15	SW846 6010B	04/10-04/11/02	EXFG61DD
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Sodium									
	196000	50000	251000	ug/L	109		SW846 6010B	04/10-04/11/02	EXFG61DF
	196000	50000	253000	ug/L	114	0.85	SW846 6010B	04/10-04/11/02	EXFG61DG
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Thallium									
	ND	2000	2070	ug/L	103		SW846 6010B	04/10-04/11/02	EXFG61DJ
	ND	2000	2070	ug/L	103	0.03	SW846 6010B	04/10-04/11/02	EXFG61DK
			Dilution Factor: 1						
			Analysis Time..: 12:44						
Vanadium									
	ND	500	511	ug/L	102		SW846 6010B	04/10-04/11/02	EXFG61AC
	ND	500	511	ug/L	102	0.11	SW846 6010B	04/10-04/11/02	EXFG61AD
			Dilution Factor: 1						
			Analysis Time..: 12:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	19.9	500	573	ug/L	111		SW846 6010B	04/10-04/11/02	EXFG61AF
	19.9	500	575	ug/L	111	0.36	SW846 6010B	04/10-04/11/02	EXFG61AG

Dilution Factor: 1
Analysis Time..: 12:44

MS Lot-Sample #: H2D050115-011 **Prep Batch #...:** 2097118

Mercury									
	ND	0.00100	0.00097	mg/L	98		SW846 7470A	04/10/02	EXFG61AJ
			Qualifiers:						
	ND	0.00100	0.00092	mg/L	92	5.3	SW846 7470A	04/10/02	EXFG61AK
			Qualifiers:						

Dilution Factor: 1
Analysis Time..: 11:40

NOTE(S):

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

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3001

General Chemistry

Lot-Sample #...: H2D050115-001 **Work Order #...:** EXFF2 **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**17300**	**1000**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1000				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	**8850**	**125**	**mg/L**	**MCAWW 130.2**	**04/09/02**	**2099221**
		Dilution Factor: 25				
Nitrate	ND G	2.0	mg/L	MCAWW 353.2	04/06/02	2098149
		Dilution Factor: 20				
Sulfate	ND	5.0	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 1				
Total Alkalinity	**229 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Dissolved Solids	**27800**	**200**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099241**
		Dilution Factor: 20				
Total Organic Carbon	**0.74 B**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	**13.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/09-04/10/02**	**2099243**
		Dilution Factor: 1				
Turbidity	**10.5**	**0.50**	**NTU**	**MCAWW 180.1**	**04/05/02**	**2095486**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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.

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3004

General Chemistry

Lot-Sample #...: H2D050115-002 Work Order #...: EXFF8 Matrix.....: WATER
Date Sampled...: 04/03/02 Date Received..: 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	558	10.0	mg/L	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 10				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	611	25.0	mg/L	MCAWW 130.2	04/09/02	2099221
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 1				
Sulfate	36.2 J	10.0	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 2				
Total Alkalinity	337 J	5.0	mg/L	MCAWW 310.1	04/05/02	2095490
		Dilution Factor: 1				
Total Dissolved Solids	1330	20.0	mg/L	MCAWW 160.1	04/08-04/10/02	2098204
		Dilution Factor: 2				
Total Organic Carbon	3.0	1.0	mg/L	SW846 9060	04/11/02	2101191
		Dilution Factor: 1				
Total Suspended Solids	9.0	4.0	mg/L	MCAWW 160.2	04/08/02	2098201
		Dilution Factor: 1				
Turbidity	112	2.5	NTU	MCAWW 180.1	04/04/02	2095485
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3007

General Chemistry

Lot-Sample #...: H2D050115-004 Work Order #...: EXFGG Matrix.....: WATER
Date Sampled...: 04/03/02 Date Received..: 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	63.2	1.0	mg/L	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	314	25.0	mg/L	MCAWW 130.2	04/09/02	2099221
		Dilution Factor: 5				
Nitrate	10.4	1.0	mg/L	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 10				
Sulfate	63.3 J	50.0	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 10				
Total Alkalinity	157 J	5.0	mg/L	MCAWW 310.1	04/05/02	2095490
		Dilution Factor: 1				
Total Dissolved Solids	458	10.0	mg/L	MCAWW 160.1	04/08-04/09/02	2098204
		Dilution Factor: 1				
Total Suspended Solids	3.0 B	4.0	mg/L	MCAWW 160.2	04/08/02	2098201
		Dilution Factor: 1				
Turbidity	0.61	0.50	NTU	MCAWW 180.1	04/04/02	2095485
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3008

General Chemistry

Lot-Sample #...: H2D050115-005 **Work Order #...:** EXFGK **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**175**	**5.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 5				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**715**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/09/02**	**2099221**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 10				
Sulfate	**23.6 J**	**5.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 1				
Total Alkalinity	**157 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/05/02**	**2095490**
		Dilution Factor: 1				
Total Dissolved Solids	**2200**	**20.0**	**mg/L**	**MCAWW 160.1**	**04/08-04/09/02**	**2098204**
		Dilution Factor: 2				
Total Organic Carbon	**2.4**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	**14.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/08/02**	**2098201**
		Dilution Factor: 1				
Turbidity	**116**	**2.5**	**NTU**	**MCAWW 180.1**	**04/04/02**	**2095485**
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3009

General Chemistry

Lot-Sample #...: H2D050115-006 **Work Order #...:** EXFGP **Matrix.....:** WATER
Date Sampled...: 04/04/02 **Date Received..:** 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**86.3**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**388**	**10.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 2				
Nitrate	ND	2.0	mg/L	MCAWW 353.2	04/06/02	2100491
		Dilution Factor: 20				
Sulfate	ND	5.0	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 1				
Total Alkalinity	**416 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107125**
		Dilution Factor: 1				
Total Dissolved Solids	**476**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099242**
		Dilution Factor: 1				
Total Organic Carbon	**2.2**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2102150**
		Dilution Factor: 1				
Total Suspended Solids	**4.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/10-04/11/02**	**2100223**
		Dilution Factor: 1				
Turbidity	**76.4**	**1.0**	**NTU**	**MCAWW 180.1**	**04/04/02**	**2105509**
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3013

General Chemistry

Lot-Sample #...: H2D050115-008 Work Order #...: EXFGX Matrix.....: WATER
Date Sampled...: 04/04/02 Date Received..: 04/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	373	10.0	mg/L	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 10				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	424	10.0	mg/L	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 2				
Nitrate	ND G	2.0	mg/L	MCAWW 353.2	04/06/02	2100491
		Dilution Factor: 20				
Sulfate	32.2 J	10.0	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 2				
Total Alkalinity	302 J	5.0	mg/L	MCAWW 310.1	04/16-04/17/02	2107125
		Dilution Factor: 1				
Total Dissolved Solids	651	10.0	mg/L	MCAWW 160.1	04/09-04/11/02	2099242
		Dilution Factor: 1				
Total Organic Carbon	5.9	1.0	mg/L	SW846 9060	04/11/02	2102150
		Dilution Factor: 1				
Total Suspended Solids	44.0	4.0	mg/L	MCAWW 160.2	04/10-04/11/02	2100223
		Dilution Factor: 1				
Turbidity	164	2.5	NTU	MCAWW 180.1	04/04/02	2105509
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3015

General Chemistry

Lot-Sample #...: H2D080126-001 **Work Order #...:** EXJE0 **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**12900**	**200**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 200				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**7000**	**125**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 25				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 10				
Sulfate	**0.44 B,J**	**5.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 1				
Total Alkalinity	**350 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Dissolved Solids	**15200**	**200**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099242**
		Dilution Factor: 20				
Total Organic Carbon	**1.4**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	**4.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/09-04/10/02**	**2099243**
		Dilution Factor: 1				
Turbidity	**69.0**	**1.0**	**NTU**	**MCAWW 180.1**	**04/08/02**	**2098569**
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

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

B Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3016

General Chemistry

Lot-Sample #...: H2D080126-002 **Work Order #...:** EXJFC **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**10**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	**440**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 10				
Sulfate	**292 J**	**50.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 10				
Total Alkalinity	**250 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Dissolved Solids	**731**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099242**
		Dilution Factor: 1				
Total Organic Carbon	**3.3**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	**24.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/09-04/10/02**	**2099243**
		Dilution Factor: 1				
Turbidity	**151**	**5.0**	**NTU**	**MCAWW 180.1**	**04/08/02**	**2098569**
		Dilution Factor: 10				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3018

General Chemistry

Lot-Sample #...: H2D080126-003 **Work Order #...:** EXJFG **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**117**	**5.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 5				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**390**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 10				
Sulfate	**165 J**	**50.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 10				
Total Alkalinity	**365 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Dissolved Solids	**740**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099242**
		Dilution Factor: 1				
Total Organic Carbon	**3.0**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	04/09-04/10/02	2099243
		Dilution Factor: 1				
Turbidity	**72.6**	**1.0**	**NTU**	**MCAWW 180.1**	**04/08/02**	**2098569**
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3019

General Chemistry

Lot-Sample #...: H2D080126-004 **Work Order #...:** EXJFP **Matrix.....:** WATER
Date Sampled...: 04/05/02 **Date Received..:** 04/08/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**761**	**10.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 10				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**420**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 10				
Sulfate	**32.1 J**	**5.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 1				
Total Alkalinity	**375 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Dissolved Solids	**1520**	**20.0**	**mg/L**	**MCAWW 160.1**	**04/09-04/11/02**	**2099242**
		Dilution Factor: 2				
Total Organic Carbon	**3.4**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	04/09-04/10/02	2099243
		Dilution Factor: 1				
Turbidity	**38.4**	**0.50**	**NTU**	**MCAWW 180.1**	**04/08/02**	**2098569**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3017

General Chemistry

Lot-Sample #...: H2D090107-001 **Work Order #...:** EXKMG **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**1.7**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	**430**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	**0.042 B**	**0.10**	**mg/L**	**MCAWW 353.2**	**04/09/02**	**2099591**
		Dilution Factor: 1				
Sulfate	**719 J**	**100**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 20				
Total Alkalinity	**2.6 B,J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/09/02**	**2099602**
		Dilution Factor: 1				
Total Dissolved Solids	**868**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/10-04/11/02**	**2100221**
		Dilution Factor: 1				
Total Organic Carbon	**2.0**	**1.0**	**mg/L**	**SW846 9060**	**04/11/02**	**2101191**
		Dilution Factor: 1				
Total Suspended Solids	**150**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/10-04/11/02**	**2100223**
		Dilution Factor: 1				
Turbidity	**156**	**2.5**	**NTU**	**MCAWW 180.1**	**04/09/02**	**2099604**
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3022

General Chemistry

Lot-Sample #...: H2D090107-002 **Work Order #...:** EXKMH **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	75.6	20.0	mg/L	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 20				
Cyanide, Total	0.038	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	1230	25.0	mg/L	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 5				
Nitrate	79.3	10.0	mg/L	MCAWW 353.2	04/09/02	2099591
		Dilution Factor: 100				
Sulfate	2660 J	1000	mg/L	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 200				
Total Alkalinity	481 J	5.0	mg/L	MCAWW 310.1	04/09/02	2099602
		Dilution Factor: 1				
Total Dissolved Solids	7360	40.0	mg/L	MCAWW 160.1	04/10-04/11/02	2100221
		Dilution Factor: 4				
Total Organic Carbon	937	40.0	mg/L	SW846 9060	04/12/02	2103139
		Dilution Factor: 40				
Total Suspended Solids	54.0	4.0	mg/L	MCAWW 160.2	04/10-04/11/02	2100223
		Dilution Factor: 1				
Turbidity	ND	0.50	NTU	MCAWW 180.1	04/09/02	2099604
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3023

General Chemistry

Lot-Sample #...: H2D090107-003 **Work Order #...:** EXKMJ **Matrix.....:** WATER
Date Sampled...: 04/08/02 **Date Received..:** 04/09/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**2.8**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	**330**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/09/02	2099591
		Dilution Factor: 1				
Sulfate	**160 J**	**50.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 10				
Total Alkalinity	**123 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/09/02**	**2099602**
		Dilution Factor: 1				
Total Dissolved Solids	**378**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/10-04/11/02**	**2100221**
		Dilution Factor: 1				
Total Organic Carbon	**2.9**	**1.0**	**mg/L**	**SW846 9060**	**04/10/02**	**2101187**
		Dilution Factor: 1				
Total Suspended Solids	**26.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/10-04/11/02**	**2100223**
		Dilution Factor: 1				
Turbidity	**53.6**	**1.0**	**NTU**	**MCAWW 180.1**	**04/09/02**	**2099604**
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3029

General Chemistry

Lot-Sample #...: H2D090107-004 Work Order #...: EXKMK Matrix.....: WATER
Date Sampled...: 04/08/02 Date Received..: 04/09/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**4.8**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/09/02**	**2099337**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Hardness, as CaCO3	**284**	**10.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 2				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/09/02	2099591
		Dilution Factor: 1				
Sulfate	**163 J**	**50.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 10				
Total Alkalinity	**229 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/09/02**	**2099602**
		Dilution Factor: 1				
Total Dissolved Solids	**506**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/10-04/11/02**	**2100221**
		Dilution Factor: 1				
Total Organic Carbon	**2.9**	**1.0**	**mg/L**	**SW846 9060**	**04/10/02**	**2101187**
		Dilution Factor: 1				
Total Suspended Solids	**75.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/10-04/11/02**	**2100223**
		Dilution Factor: 1				
Turbidity	**112**	**2.5**	**NTU**	**MCAWW 180.1**	**04/09/02**	**2099603**
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: EXLCX1AA		MB Lot-Sample #:	A2D090000-337	
	ND	1.0	mg/L	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 1				
Cyanide, Total		Work Order #: EXXFW1AA		MB Lot-Sample #:	H2D150000-439	
	ND	0.010	mg/L	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1				
Cyanide, Total		Work Order #: EXXF41AA		MB Lot-Sample #:	H2D150000-441	
	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: EXKRT1AA		MB Lot-Sample #:	A2D090000-221	
	ND	5.0	mg/L	MCAWW 130.2	04/09/02	2099221
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: EXQN41AA		MB Lot-Sample #:	A2D110000-295	
	ND	5.0	mg/L	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 1				
Nitrate		Work Order #: EXHAE1AA		MB Lot-Sample #:	A2D050000-482	
	ND	0.10	mg/L	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 1				
Nitrate		Work Order #: EXH701AA		MB Lot-Sample #:	A2D080000-149	
	ND	0.10	mg/L	MCAWW 353.2	04/06/02	2098149
		Dilution Factor: 1				
Nitrate		Work Order #: EXPH81AA		MB Lot-Sample #:	A2D100000-491	
	ND	0.10	mg/L	MCAWW 353.2	04/06/02	2100491
		Dilution Factor: 1				
Nitrate		Work Order #: EXKGJ1AA		MB Lot-Sample #:	A2D080000-578	
	ND	0.10	mg/L	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 1				
Nitrate		Work Order #: EXMH31AA		MB Lot-Sample #:	A2D090000-591	
	ND	0.10	mg/L	MCAWW 353.2	04/09/02	2099591
		Dilution Factor: 1				
Sulfate		Work Order #: EXLDX1AA		MB Lot-Sample #:	A2D090000-336	
	0.38 B	**5.0**	**mg/L**	**MCAWW 375.4**	**04/09/02**	**2099336**
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: EXHCT1AA		MB Lot-Sample #:	A2D050000-490	
	3.9 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/05/02**	**2095490**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EXKF71AA		MB Lot-Sample #:	A2D080000-568	
	3.9 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/08/02**	**2098568**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EXMJR1AA		MB Lot-Sample #:	A2D090000-602	
	4.2 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/09/02**	**2099602**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EX1KJ1AA		MB Lot-Sample #:	A2D170000-125	
	4.3 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107125**
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXJAN1AA		MB Lot-Sample #:	A2D080000-204	
	ND	10.0	mg/L	MCAWW 160.1	04/08-04/09/02	2098204
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXLP01AA		MB Lot-Sample #:	A2D090000-241	
	ND	10.0	mg/L	MCAWW 160.1	04/09-04/11/02	2099241
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXLP31AA		MB Lot-Sample #:	A2D090000-242	
	ND	10.0	mg/L	MCAWW 160.1	04/09-04/11/02	2099242
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXM5L1AA		MB Lot-Sample #:	A2D100000-221	
	ND	10.0	mg/L	MCAWW 160.1	04/10-04/11/02	2100221
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EXP051AA		MB Lot-Sample #:	A2D110000-187	
	ND	1.0	mg/L	SW846 9060	04/10/02	2101187
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EXP1F1AA		MB Lot-Sample #:	A2D110000-191	
	ND	1.0	mg/L	SW846 9060	04/11/02	2101191
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		Work Order #: EXRTX1AA		MB Lot-Sample #:	A2D120000-150	
	ND	1.0	mg/L	SW846 9060	04/11/02	2102150
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EXWC31AA		MB Lot-Sample #:	A2D130000-139	
	ND	1.0	mg/L	SW846 9060	04/12/02	2103139
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXJAP1AA		MB Lot-Sample #:	A2D080000-201	
	ND	4.0	mg/L	MCAWW 160.2	04/08/02	2098201
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXLP51AA		MB Lot-Sample #:	A2D090000-243	
	ND	4.0	mg/L	MCAWW 160.2	04/09-04/10/02	2099243
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXM5Q1AA		MB Lot-Sample #:	A2D100000-223	
	ND	4.0	mg/L	MCAWW 160.2	04/10-04/11/02	2100223
		Dilution Factor: 1				
Turbidity		Work Order #: EXHA41AA		MB Lot-Sample #:	A2D050000-485	
	ND	0.50	NTU	MCAWW 180.1	04/04/02	2095485
		Dilution Factor: 1				
Turbidity		Work Order #: EXXK01AA		MB Lot-Sample #:	A2D150000-509	
	ND	0.50	NTU	MCAWW 180.1	04/04/02	2105509
		Dilution Factor: 1				
Turbidity		Work Order #: EXHCA1AA		MB Lot-Sample #:	A2D050000-486	
	ND	0.50	NTU	MCAWW 180.1	04/05/02	2095486
		Dilution Factor: 1				
Turbidity		Work Order #: EXKGE1AA		MB Lot-Sample #:	A2D080000-569	
	ND	0.50	NTU	MCAWW 180.1	04/08/02	2098569
		Dilution Factor: 1				
Turbidity		Work Order #: EXMJV1AA		MB Lot-Sample #:	A2D090000-603	
	ND	0.50	NTU	MCAWW 180.1	04/09/02	2099603
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: EXMJT1AA		MB Lot-Sample #:	A2D090000-604	
	ND	0.50	NTU	MCAWW 180.1	04/09/02	2099604
		Dilution Factor: 1				

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

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: EXLCX1AC	LCS Lot-Sample#: A2D090000-337		
	105	(90 - 115)	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 1			
Cyanide, Total		Work Order #: EXXFW1AC	LCS Lot-Sample#: H2D150000-439		
	102	(88 - 113)	SW846 9012A	04/10/02	2105439
		Dilution Factor: 1			
Cyanide, Total		Work Order #: EXXF41AC	LCS Lot-Sample#: H2D150000-441		
	108	(88 - 113)	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: EXKRT1AC	LCS Lot-Sample#: A2D090000-221		
	103	(84 - 116)	MCAWW 130.2	04/09/02	2099221
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: EXQN41AC	LCS Lot-Sample#: A2D110000-295		
	96	(84 - 116)	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 1			
Nitrate		Work Order #: EXHAE1AC	LCS Lot-Sample#: A2D050000-482		
	105	(77 - 116)	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 1			
Nitrate		Work Order #: EXH701AC	LCS Lot-Sample#: A2D080000-149		
	103	(77 - 116)	MCAWW 353.2	04/06/02	2098149
		Dilution Factor: 1			
Nitrate		Work Order #: EXKGJ1AC	LCS Lot-Sample#: A2D080000-578		
	102	(77 - 116)	MCAWW 353.2	04/08/02	2098578
		Dilution Factor: 1			
Nitrate		Work Order #: EXMH31AC	LCS Lot-Sample#: A2D090000-591		
	102	(77 - 116)	MCAWW 353.2	04/09/02	2099591
		Dilution Factor: 1			
Nitrate		Work Order #: EXPH81AC	LCS Lot-Sample#: A2D100000-491		
	103	(77 - 116)	MCAWW 353.2	04/06/02	2100491
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		Work Order #: EXLDX1AC	LCS Lot-Sample#: A2D090000-336		
	91	(80 - 112)	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EXHCT1AC	LCS Lot-Sample#: A2D050000-490		
	94	(90 - 127)	MCAWW 310.1	04/05/02	2095490
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EXKF71AC	LCS Lot-Sample#: A2D080000-568		
	94	(90 - 127)	MCAWW 310.1	04/08/02	2098568
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EXMJR1AC	LCS Lot-Sample#: A2D090000-602		
	93	(90 - 127)	MCAWW 310.1	04/09/02	2099602
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EX1KJ1AC	LCS Lot-Sample#: A2D170000-125		
	99	(90 - 127)	MCAWW 310.1	04/16-04/17/02	2107125
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXJAN1AC	LCS Lot-Sample#: A2D080000-204		
	97	(69 - 120)	MCAWW 160.1	04/08-04/09/02	2098204
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXLP01AC	LCS Lot-Sample#: A2D090000-241		
	90	(69 - 120)	MCAWW 160.1	04/09-04/11/02	2099241
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXLP31AC	LCS Lot-Sample#: A2D090000-242		
	96	(69 - 120)	MCAWW 160.1	04/09-04/11/02	2099242
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXM5L1AC	LCS Lot-Sample#: A2D100000-221		
	95	(69 - 120)	MCAWW 160.1	04/10-04/11/02	2100221
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EXP051AC	LCS Lot-Sample#: A2D110000-187		
	104	(88 - 115)	SW846 9060	04/10/02	2101187
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		Work Order #: EXP1F1AC		LCS Lot-Sample#: A2D110000-191	
	103	(88 - 115)	SW846 9060	04/11/02	2101191
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EXRTX1AC		LCS Lot-Sample#: A2D120000-150	
	101	(88 - 115)	SW846 9060	04/11/02	2102150
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EXWC31AC		LCS Lot-Sample#: A2D130000-139	
	98	(88 - 115)	SW846 9060	04/12/02	2103139
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EXJAP1AC		LCS Lot-Sample#: A2D080000-201	
	104	(66 - 119)	MCAWW 160.2	04/08/02	2098201
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EXLP51AC		LCS Lot-Sample#: A2D090000-243	
	84	(66 - 119)	MCAWW 160.2	04/09-04/10/02	2099243
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EXM5Q1AC		LCS Lot-Sample#: A2D100000-223	
	91	(66 - 119)	MCAWW 160.2	04/10-04/11/02	2100223
		Dilution Factor: 1			
Turbidity		Work Order #: EXHA41AC		LCS Lot-Sample#: A2D050000-485	
	109	(75 - 125)	MCAWW 180.1	04/04/02	2095485
		Dilution Factor: 1			
Turbidity		Work Order #: EXHCA1AC		LCS Lot-Sample#: A2D050000-486	
	114	(75 - 125)	MCAWW 180.1	04/05/02	2095486
		Dilution Factor: 1			
Turbidity		Work Order #: EXKGE1AC		LCS Lot-Sample#: A2D080000-569	
	113	(75 - 125)	MCAWW 180.1	04/08/02	2098569
		Dilution Factor: 1			
Turbidity		Work Order #: EXMJV1AC		LCS Lot-Sample#: A2D090000-603	
	110	(75 - 125)	MCAWW 180.1	04/09/02	2099603
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: EXMJT1AC	LCS Lot-Sample#: A2D090000-604		
	110	(75 - 125)	MCAWW 180.1	04/09/02	2099604
		Dilution Factor: 1			
Turbidity		Work Order #: EXXK01AC	LCS Lot-Sample#: A2D150000-509		
	114	(75 - 125)	MCAWW 180.1	04/04/02	2105509
		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 #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	EXLCX1AC	LCS Lot-Sample#:	A2D090000-337	
	39.9	42.0	mg/L	105	MCAWW 325.2	04/09/02	2099337
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	EXXFW1AC	LCS Lot-Sample#:	H2D150000-439	
	0.200	0.203	mg/L	102	SW846 9012A	04/10/02	2105439
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	EXXF41AC	LCS Lot-Sample#:	H2D150000-441	
	0.200	0.215	mg/L	108	SW846 9012A	04/15/02	2105441
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	EXKRT1AC	LCS Lot-Sample#:	A2D090000-221	
	224	230	mg/L	103	MCAWW 130.2	04/09/02	2099221
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	EXQN41AC	LCS Lot-Sample#:	A2D110000-295	
	224	216	mg/L	96	MCAWW 130.2	04/11/02	2101295
			Dilution Factor: 1				
Nitrate			Work Order #:	EXHAE1AC	LCS Lot-Sample#:	A2D050000-482	
	0.500	0.526	mg/L	105	MCAWW 353.2	04/04/02	2095482
			Dilution Factor: 1				
Nitrate			Work Order #:	EXH701AC	LCS Lot-Sample#:	A2D080000-149	
	0.410	0.424	mg/L	103	MCAWW 353.2	04/06/02	2098149
			Dilution Factor: 1				
Nitrate			Work Order #:	EXKGJ1AC	LCS Lot-Sample#:	A2D080000-578	
	0.410	0.419	mg/L	102	MCAWW 353.2	04/08/02	2098578
			Dilution Factor: 1				
Nitrate			Work Order #:	EXMH31AC	LCS Lot-Sample#:	A2D090000-591	
	0.500	0.512	mg/L	102	MCAWW 353.2	04/09/02	2099591
			Dilution Factor: 1				
Nitrate			Work Order #:	EXPH81AC	LCS Lot-Sample#:	A2D100000-491	
	0.410	0.424	mg/L	103	MCAWW 353.2	04/06/02	2100491
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #: EXLDX1AC LCS Lot-Sample#: A2D090000-336				
	31.4	28.7	mg/L	91	MCAWW 375.4	04/09/02	2099336
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EXHCT1AC LCS Lot-Sample#: A2D050000-490				
	45.3	42.4	mg/L	94	MCAWW 310.1	04/05/02	2095490
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EXKF71AC LCS Lot-Sample#: A2D080000-568				
	45.3	42.6	mg/L	94	MCAWW 310.1	04/08/02	2098568
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EXMJR1AC LCS Lot-Sample#: A2D090000-602				
	45.3	42.1	mg/L	93	MCAWW 310.1	04/09/02	2099602
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EX1KJ1AC LCS Lot-Sample#: A2D170000-125				
	43.4	43.0	mg/L	99	MCAWW 310.1	04/16-04/17/02	2107125
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXJAN1AC LCS Lot-Sample#: A2D080000-204				
	320	309	mg/L	97	MCAWW 160.1	04/08-04/09/02	2098204
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXLP01AC LCS Lot-Sample#: A2D090000-241				
	320	289	mg/L	90	MCAWW 160.1	04/09-04/11/02	2099241
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXLP31AC LCS Lot-Sample#: A2D090000-242				
	320	307	mg/L	96	MCAWW 160.1	04/09-04/11/02	2099242
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXM5L1AC LCS Lot-Sample#: A2D100000-221				
	320	304	mg/L	95	MCAWW 160.1	04/10-04/11/02	2100221
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: EXP051AC LCS Lot-Sample#: A2D110000-187				
	38.5	39.9	mg/L	104	SW846 9060	04/10/02	2101187
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon			Work Order #:	EXP1F1AC	LCS Lot-Sample#:	A2D110000-191	
	38.5	39.6	mg/L	103	SW846 9060	04/11/02	2101191
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	EXRTX1AC	LCS Lot-Sample#:	A2D120000-150	
	38.5	38.8	mg/L	101	SW846 9060	04/11/02	2102150
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	EXWC31AC	LCS Lot-Sample#:	A2D130000-139	
	38.5	37.8	mg/L	98	SW846 9060	04/12/02	2103139
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	EXJAP1AC	LCS Lot-Sample#:	A2D080000-201	
	62.2	65.0	mg/L	104	MCAWW 160.2	04/08/02	2098201
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	EXLP51AC	LCS Lot-Sample#:	A2D090000-243	
	45.0	38.0	mg/L	84	MCAWW 160.2	04/09-04/10/02	2099243
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	EXM5Q1AC	LCS Lot-Sample#:	A2D100000-223	
	45.0	41.0	mg/L	91	MCAWW 160.2	04/10-04/11/02	2100223
			Dilution Factor: 1				
Turbidity			Work Order #:	EXHA41AC	LCS Lot-Sample#:	A2D050000-485	
	1.00	1.09	NTU	109	MCAWW 180.1	04/04/02	2095485
			Dilution Factor: 1				
Turbidity			Work Order #:	EXHCA1AC	LCS Lot-Sample#:	A2D050000-486	
	1.00	1.14	NTU	114	MCAWW 180.1	04/05/02	2095486
			Dilution Factor: 1				
Turbidity			Work Order #:	EXKGE1AC	LCS Lot-Sample#:	A2D080000-569	
	1.00	1.13	NTU	113	MCAWW 180.1	04/08/02	2098569
			Dilution Factor: 1				
Turbidity			Work Order #:	EXMJV1AC	LCS Lot-Sample#:	A2D090000-603	
	1.00	1.10	NTU	110	MCAWW 180.1	04/09/02	2099603
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity			Work Order #:	EXMJT1AC	LCS Lot-Sample#:	A2D090000-604	
	1.00	1.10	NTU	110	MCAWW 180.1	04/09/02	2099604
			Dilution Factor: 1				
Turbidity			Work Order #:	EXXK01AC	LCS Lot-Sample#:	A2D150000-509	
	1.00	1.14	NTU	114	MCAWW 180.1	04/04/02	2105509
			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 #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received...:** 04/05/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	EXFF81EC-MS/EXFF81ED-MSD			MS Lot-Sample #:	H2D050115-002
	47	(43 - 167)			MCAWW 325.2	04/09/02	2099337
	37 N	(43 - 167)	0.46	(0-23)	MCAWW 325.2	04/09/02	2099337
		Dilution Factor: 1					
Cyanide, Total		WO#:	EXFF81EQ-MS/EXFF81ER-MSD			MS Lot-Sample #:	H2D050115-002
	99	(77 - 126)			SW846 9012A	04/15/02	2105441
	106	(77 - 126)	6.4	(0-20)	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	EXFF81EU-MS/EXFF81EV-MSD			MS Lot-Sample #:	H2D050115-002
	95	(10 - 176)			MCAWW 130.2	04/09/02	2099221
	90	(10 - 176)	1.2	(0-23)	MCAWW 130.2	04/09/02	2099221
		Dilution Factor: 1					
Nitrate		WO#:	EXFF81EF-MS/EXFF81EG-MSD			MS Lot-Sample #:	H2D050115-002
	79	(10 - 163)			MCAWW 353.2	04/04/02	2095482
	74	(10 - 163)	7.1	(0-24)	MCAWW 353.2	04/04/02	2095482
		Dilution Factor: 1					
Sulfate		WO#:	EXFF81EJ-MS/EXFF81EK-MSD			MS Lot-Sample #:	H2D050115-002
	66	(22 - 151)			MCAWW 375.4	04/09/02	2099336
	63	(22 - 151)	1.8	(0-31)	MCAWW 375.4	04/09/02	2099336
		Dilution Factor: 1					
Total Alkalinity		WO#:	EXFF81D8-MS/EXFF81D9-MSD			MS Lot-Sample #:	H2D050115-002
	21	(10 - 160)			MCAWW 310.1	04/05/02	2095490
	21	(10 - 160)	0.34	(0-24)	MCAWW 310.1	04/05/02	2095490
		Dilution Factor: 1					
Total Organic Carbon		WO#:	EXFF81EM-MS/EXFF81EN-MSD			MS Lot-Sample #:	H2D050115-002
	96	(72 - 136)			SW846 9060	04/11/02	2101191
	101	(72 - 136)	4.2	(0-20)	SW846 9060	04/11/02	2101191
		Dilution Factor: 1					

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 DATA REPORT

General Chemistry

Client Lot #...: CB001 **Matrix.....:** WATER
Date Sampled...: 04/03/02 **Date Received..:** 04/05/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: EXFF81EC-MS/EXFF81ED-MSD				MS Lot-Sample #: H2D050115-002		
	558	25.0	570	mg/L	47		MCAWW 325.2	04/09/02	2099337
	558	25.0	567 N	mg/L	37	0.46	MCAWW 325.2	04/09/02	2099337
			Dilution Factor: 1						
Cyanide, Total			WO#: EXFF81EQ-MS/EXFF81ER-MSD				MS Lot-Sample #: H2D050115-002		
	ND	0.200	0.198	mg/L	99		SW846 9012A	04/15/02	2105441
	ND	0.200	0.211	mg/L	106	6.4	SW846 9012A	04/15/02	2105441
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: EXFF81EU-MS/EXFF81EV-MSD				MS Lot-Sample #: H2D050115-002		
	611	200	801	mg/L	95		MCAWW 130.2	04/09/02	2099221
	611	200	791	mg/L	90	1.2	MCAWW 130.2	04/09/02	2099221
			Dilution Factor: 1						
Nitrate			WO#: EXFF81EF-MS/EXFF81EG-MSD				MS Lot-Sample #: H2D050115-002		
	ND	0.250	0.197	mg/L	79		MCAWW 353.2	04/04/02	2095482
	ND	0.250	0.184	mg/L	74	7.1	MCAWW 353.2	04/04/02	2095482
			Dilution Factor: 1						
Sulfate			WO#: EXFF81EJ-MS/EXFF81EK-MSD				MS Lot-Sample #: H2D050115-002		
	36.2	25.0	52.8	mg/L	66		MCAWW 375.4	04/09/02	2099336
	36.2	25.0	51.9	mg/L	63	1.8	MCAWW 375.4	04/09/02	2099336
			Dilution Factor: 1						
Total Alkalinity			WO#: EXFF81D8-MS/EXFF81D9-MSD				MS Lot-Sample #: H2D050115-002		
	337	500	442	mg/L	21		MCAWW 310.1	04/05/02	2095490
	337	500	440	mg/L	21	0.34	MCAWW 310.1	04/05/02	2095490
			Dilution Factor: 1						
Total Organic Carbon			WO#: EXFF81EM-MS/EXFF81EN-MSD				MS Lot-Sample #: H2D050115-002		
	3.0	25.0	26.9	mg/L	96		SW846 9060	04/11/02	2101191
	3.0	25.0	28.1	mg/L	101	4.2	SW846 9060	04/11/02	2101191
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

Sample Receipt Documentation

SEVERN TRENT
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# CB001

*	DATE REC'D	LOT#	CLIENT ID	VOA	BNA	CN	EXP	T/MET	D/MET	TOC	CHL	NIT	SULF	TDS	TSS	TURB	ALK	HARD
				8260B	8270C	9012	8330	6010B	6010B	9060	325.2	353.2	375.4	160.1	160.2	180.1	310.1	130.2
1,	4/4/2002	H2D050115	CB3001	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	CN	NC	NC
2			CB3004	QC	QC	QC	QC	QC	QC	QC/NC	QC/NC	QC/NC	QC/NC	QC/NC	QC/NC	QC/NC	QC/NC	QC/NC
3			CB3005	X	X		X	X	X									
4			CB3007	X	X	X	X	X	X		NC	NC	NC	NC	NC	NC	NC	NC
5			CB3008	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
6			CB3009	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
7			CB3010	X	X		X	X	X									
8			CB3013	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
9			CB5006	X														
10	4/8/2002	H2D080126	CB3015	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
11			CB3016	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
12			CB3018	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
13			CB3019	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
14			CB3020	X	X		X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
15			CB5008	X														
16	4/9/2002	H2D090107	CB3017	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
17			CB3022	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
18			CB3023	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
19			CB3029	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
20			CB5010	X														

NC = NORTH CANTON
A = STL AUSTIN
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: WATER
ANALYTICAL DUE: 4-29-02
REPORT DUE: 5-3-02
CLOSED? YES

5/7/200210:46 AM

H2D0S0115

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002B

Project Number: 825635
Samples Shipment Date: 04 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345878979

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation)	Date: 4/4/04 Time: 1800	1. Received By (Signature/Affiliation) Matthew J. Howard	Date: 04-05-02 Time: 08:30
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:
Rec'd temp. 3°C
custody Seals intact
FedEx# 830345878979
MFH-04-05-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N	pH11.	Preserved in Lab with NaOH to pH12 By MFH 04-05-02
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		

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H2D030115

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002B

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID 04-05-02 MFH Condition On Receipt
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N	~~Ph2~~ Ph12
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N	
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N	
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N	
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N	Ph12
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N	
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N	Ph12
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N	
CB3005	PBOW-02-GW-PB-BED-MW25-CB3005-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3005	PBOW-02-GW-PB-BED-MW25-CB3005-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3005	PBOW-02-GW-PB-BED-MW25-CB3005-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N	
CB3005	PBOW-02-GW-PB-BED-MW25-CB3005-14-14	03 APR 2002	11:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N	
CB3005	PBOW-02-GW-PB-BED-MW25-CB3005-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N	
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N	Ph12
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N	
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N	Ph2
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N	

H2D050115

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002B

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3009	PBOW-02-GW-PB-BED-MW22-CB3009-35-37	04 APR 2002	10:25	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3010	PBOW-02-GW-PB-BED-MW22-CB3010-35-37	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3010	PBOW-02-GW-PB-BED-MW22-CB3010-35-37	04 APR 2002	10:25	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3010	PBOW-02-GW-PB-BED-MW22-CB3010-35-37	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3010	PBOW-02-GW-PB-BED-MW22-CB3010-35-37	04 APR 2002	10:25	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3010	PBOW-02-GW-PB-BED-MW22-CB3010-35-37	04 APR 2002	10:25	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3013	PBOW-02-GW-PB-BED-MW19-CB3013-34-34	04 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3013	PBOW-02-GW-PB-BED-MW19-CB3013-34-34	04 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3013	PBOW-02-GW-PB-BED-MW19-CB3013-34-34	04 APR 2002	15:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3013	PBOW-02-GW-PB-BED-MW19-CB3013-34-34	04 APR 2002	15:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3013	PBOW-02-GW-PB-BED-MW19-CB3013-34-34	04 APR 2002	15:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5006	PBOW-02-BW-FIELDQC-CB5006--	04 APR 2002	12:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: It. corp PROJECT: Plum Brook ordnance wks Lot No.: H2D050115

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? MFH 04-05-02	X	✓	
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: Matthew F. Howard DATE: 04-05-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : JM DATE: 4/12/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
MFH 04-05-02 ~~CB3004~~	~~Filtered Metals~~	~~7a~~	~~Sample Id is CB3004MS~~
CB 3013	Cyanide 9010 A	6b	coc does not list cyanide Test
CB 3001	↓	4e	rec'd Ph 11, Perserved in Lab to Ph 2 with Na
CB 3004	9010 A	3c	rec'd extra 500 mL P
↓	Filtered metals	4b	did not recieve sample

☑ Client informed on 4/10/02 by email. Person contacted: V Graves, M McNiglar

☐ Noted actions in comments section above.

☒ No action necessary; process as is.

Project Manager: JM Date: 4/12/02

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: Acid Phll, Perserved to Ph12 in Lab with NaOH
	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): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D050115

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA
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		
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: pm DATE: 4/9/02

H2D050115

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04032002

Project Number: 825635
Samples Shipment Date: 03 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: SEVERN TRENT
Sample Coordinator: Don Dill
Lab Contact: Steve Warren
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345879015

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Don Dill	Date: 4/3/02 Time: 1800	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) Jerry Miller	Date: 4-4-02 Time: 9:30

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1. Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3004	PBOW-02-GW-PB-BED-MW25-CB3004-14-14	03 APR 2002	11:20	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004 MS-14-14	03 APR 2002	11:20	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total	N		

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H2D050115

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04032002

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1			
CB3004-MS	PBOW-02-GW-PB-BED-MW25-CB3004-MS-14-14	03 APR 2002	11:20	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3004-MSD	PBOW-02-GW-PB-BED-MW25-CB3004-MSD-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3007	PBOW-02-GW-IT-BG8-BEDGW-001-CB3007-14-15	03 APR 2002	11:27	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

CB3008 PB-BED-MW24- 17:30 1 1 1 Alkalinity, Chloride
CB3006 Nitrate, Sulfate
TDS, TSS, Turbidity

Rec'd by: Jenny Stiller 4-4-02 9:30

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H2005015

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002N

Project Number: 825635
Samples Shipment Date: 04 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345878968

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) D m Dill	Date: 4/4/02 Time: 1900	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3001	PBOW-02-GW-PB-BED-MW20-CB3001-17-17	04 APR 2002	10:13	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3008	PBOW-02-GW-PB-BED-MW24-CB3008-36-36	03 APR 2002	17:30	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

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H2D50115

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3008	PBOW-02-GW-PB-BED-MW22-CB3008-35-37	04 APR 2002	10:25	40 mL GVIAL_SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3009	PBOW-02-GW-PB-BED-MW22-CB3008-35-37	04 APR 2002	10:25	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3009	PBOW-02-GW-PB-BED-MW22-CB3008-35-37	04 APR 2002	10:25	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3013	PBOW-02-GW-PB-BED-MW18-CB3013-34-34	04 APR 2002	15:20	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3013	PBOW-02-GW-PB-BED-MW18-CB3013-34-34	04 APR 2002	15:20	40 mL GVIAL_SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3013	PBOW-02-GW-PB-BED-MW18-CB3013-34-34	04 APR 2002	15:20	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3013	PBOW-02-GW-PB-BED-MW18-CB3013-34-34	04 APR 2002	15:20	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

H2 D050115

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: ET Project: _____ Quote#: _____
Cooler Received on: 4-4-02 Opened on: 4-4-02 by: Jenny Miller (Signature)

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

Cooler [ ] Safe [ ] Foam Box [ ] Client Cooler [X] Other: _____
STL Shipper No#: _____

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity 2 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 [X] Vermiculite [ ] Foam [ ] None [ ] Other: _____

6. Cooler temperature upon receipt 1.2 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial [X] Between Coolant & Sample Container [ ] Against Bottles [ ]
COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

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

Contacted PM KJK Date: 4-4-02 by: gas via Voice Mail [ ] Verbal [X] Other [ ]
Concerning: SR1B

√	MACRO	MACRO
	1. CHAIN OF CUSTODY	
	SR1A	Samples were received under proper custody procedures and without discrepancies.
✓	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred TOC vials not rec'd for CB3007. Were listed on COC. KJK aware. gas 4-19-02
	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. NCM	
	SR4A	NCM has been generated. Refer to Clouseau for details
	5. Other Anomalies (see below or back)	

H2D050115

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
C63004	<2,<2,<2	4-4-00	[illegible]
C63007	<2		[illegible]

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

H2D050115

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: TT Project: _____ Quote#: _____
Cooler Received on: 4/5/02 Opened on: 4/5/02 by: David Cox (Signature)

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

Cooler [X] Safe [ ] Foam Box [ ] Client Cooler [ ] Other: _____
STL Shipper No#: _____

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity _____ Location _____
   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 [X] Other: _____

6. Cooler temperature upon receipt 1.3 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial [ ] Between Coolant & Sample Container [X] Against Bottles [ ]
COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Were all the bottles sealed in separate plastic bags? Yes [X] No [ ]
8. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
9. Did all bottle labels and tags agree with the custody papers? Yes [ ] No [X]
10. Were samples at the correct pH? Yes [X] No [ ] NA [ ]
11. Were correct bottles used for the tests indicated? Yes [X] No [ ]
12. Were air bubbles >6 mm in any VOA vials? Yes [X] No [ ] NA [ ]
13. 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	Samples were received under proper custody procedures and without discrepancies.
	SR1B	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
4. NCM		
	SR4A	NCM has been generated. Refer to Clouseau for details
5. Other Anomalies (see below or back)		

172D050115

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
CB3001	>2	4/5/02	DC
CB3008	>2		
CB3009	>2		
CB3013	>2		

Cooler	Temp	Method	Comments
Knoxville	1.30C		

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

H2D0E0126

IT CORPORATION
A Member of The CC Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04052002K

Project Number: 825635
Samples Shipment Date: 05 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345879004

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation)	Date: 4/5/02 Time: 1800	1. Received By (Signature/Affiliation) Matthew J. Howard	Date: 04-08-02 Time: 09:15
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:
Rec'd temp. 2°c
custody seals intact
Fedex # 830345879004
MFH. 04-08-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph 2
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph 2
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A Ph 11	N	Persor-din Lab with NAOH to	Ph12 By MFH 04-08-
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		

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172D080126

IT CORPORATION

A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04052002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph 2
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		Ph12
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph 2
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		Ph12
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3018	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3018-19-19	05 APR 2002	10:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3020	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3020-19-19	05 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3020	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3020-19-19	05 APR 2002	15:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3020	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3020-19-19	05 APR 2002	15:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3020	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3020-19-19	05 APR 2002	15:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3020	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3020-19-19	05 APR 2002	15:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5008	PBOW-02-BW-FIELDQC-CB5008--	05 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

[redacted]

Chain of Custody Record

H2D080126

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (1200)

Client: STL North Canton	Project Manager: Ken Kuzior	Date: 4-8-02	Chain of Custody Number: 077560
Address: 4101 Shuffel Dr. S.W.	Telephone Number (Area Code)/Fax Number: (330) 966-9374	Lab Number:	Page 1 of 1
City: North Canton, State: OH, Zip Code: 44720	Site Contact: Maureen McMyler	Lab Contact:	
Project Name and Location (State): Plumbrook Ordinance	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): Cyanide											Special Instructions/ Conditions of Receipt
CB3019	4-5-02	15:20		X								X			X		pH>12									
																										Custody seals intact received at 4°C DJD 4-9-02 AIRBILL # 2519569457 6

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 4-8-02	Time: 1:20p	1. Received By: [signature]	Date: 4-9-02	Time: 09:30
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: IT-Corp. PROJECT: Plumbrook ordnance wks Lot No.: H2D080126

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: Matthew F. Howard DATE: 04-08-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under ~~C8001~~ 44281 (SYD 4-8-02)			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : JM DATE: 4/10/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CB3015	Cyanide, 9010A	He	see backside
CB3015	8260	3e	1 of 3 40mL voas have headspace
CB3014	Cyanide	(8)	see back side

☒ Client informed on 4/10/02 by Conference. Person contacted: V Brown, M McMyler

☐ Noted actions in comments section above.

☒ No action necessary; process as is.

Project Manager: JM Date: 4/10/02

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: Rec'd Ph11 Perserved in lab to Ph12 with NAOH By MFH 04-08-07
	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): Did not recieve container perserved to Ph12 For cyanide Analysis. Reid 250MLP perserved to Ph2 For Hardness Analysis.

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: Blumlick Lot No.: H2D080126

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		
d. Is cooler temperature & custody seal condition noted on COC?	X		
2. Log-in (Lot Folder) Review:			
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:			
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:			
a. If SDG is required, is SDG form in Lot folder?	X		X gm 4/10/02
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:			
a. Has Sample Receipt Checklist been filled-out?	X		
b. Was there a CUR?	X		X gm 4/10/02
c. Were all issues resolved?			X

LOT FOLDER REVIEWED BY: gm DATE: 4/10/02

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
4/28/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR037736

CLIENT CODE: 99266 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
~~H2D080126-004~~	~~4/05/02~~	~~Alkalinity, Total (310.1)~~
EXJFP-1-AL		(ALK-T) METHOD: 310.1
H2D080126-004	4/05/02	Chloride (325.2, Automated)
EXJFP-1-CA		(CL) METHOD: 325.2
H2D080126-004	4/05/02	Nitrate-Nitrite (353.2, Automated)
EXJFP-1-CC		(NO3) METHOD: 353.2
H2D080126-004	4/05/02	Sulfate (Turbidimetric - 375.4)
EXJFP-1-CD		(SO4-TURB) METHOD: 375.4
H2D080126-004	4/05/02	~~Carbon, Total Organic "TOC" (9060)~~ BKN 4-8-02
~~EXJFP-1-CE~~		(TOC) METHOD: 9060
H2D080126-004	4/05/02	Hardness, Total (130.2, titrimetric)
EXJFP-1-CG		(HARDNESS) METHOD: 130.2

Ref: H2D080126
Dept: 140320

Date: 08APR02
Wgt: 6.05 LBS

SHIPPING	$14.91
SPECIAL	$0.15
HANDLING	$0.00
TOTAL	$15.06

SERVICE: PRIORITY OVERNIGHT
TRACK: 6104 4276 1598

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 4/08/02

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: _____ 4/08/02 10:54:51

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

RELINQUISHED BY: [signature] DATE/TIME: 04-8-02 14:00

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

HAD 050126

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04052002N

Project Number: 825635
Samples Shipment Date: 05 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345878990

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation)	Date: 4/5/02 Time: 1800	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) Jennifer Stiller	Date: 4-8-02 Time: 9:55

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3015	PBOW-02-GW-PB-BED-MW18-CB3015-65-65	05 APR 2002	10:40	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

PAGE 2/4
APR 05 2002 10:40 STL NORTH CANTON
310

H2D080026

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04052002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3016	PBOW-02-GW-IT-ABG-BEDGW-01-CB3016-15-15	05 APR 2002	15:10	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3016	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3016-19-19	05 APR 2002	10:30	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3016	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3016-19-19	05 APR 2002	10:30	40 mL GVIAL_SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3016	PBOW-02-GW-IT-TNTB-BEDGW-002-CB3016-19-19	05 APR 2002	10:30	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	40 mL GVIAL_SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3019	PBOW-02-GW-IT-TNTB-BEDGW-001-CB3019-19-19	05 APR 2002	15:20	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

Rec'd by: Jenny Stiller 4802 9:55

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: IT Project: Quote#:
Cooler Received on: 4-8-02 Opened on: 4-8-02 by: (Signature)

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

Cooler [ ] Safe [ ] Foam Box [ ] Client Cooler [X] Other:
STL Shipper No#:

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity 2 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 [X] Foam [ ] None [ ] Other :

6. Cooler temperature upon receipt 21 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial [X] Between Coolant & Sample Container [ ] Against Bottles [ ]
COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Were all the bottles sealed in separate plastic bags? Yes [ ] No [X]
8. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
9. Did all bottle labels and tags agree with the custody papers? Yes [ ] No [X]
10. Were samples at the correct pH? Yes [X] No [ ] NA [ ]
11. Were correct bottles used for the tests indicated? Yes [X] No [ ]
12. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
13. 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	Samples were received under proper custody procedures and without discrepancies.
✓	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred Rec'd cyanide bottle for CB3019, not on COC. Did not receive hardness bottle.
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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2Zn/NaOH*
	SR3B	Sample(s) were received with bubble > 6 mm in diameter (cc: PM)
4. NCM		
	SR4A	NCM has been generated. Refer to Clouseau for details
5. Other Anomalies (see below or back)		

H2D090107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002K

Project Number: 825635
Samples Shipment Date: 08 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095457

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature] Date: 4/8/02 Time: 1800
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 4-9-02 Time: 09:00
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:
See faxed COC (fax 4/10/02) for corrected sample name.
[initials] 4/11/02

Custody seals intact
received at 3°C
BKD 4-9-02
FEDX # 827069095457

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		✓
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		PH>12
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		PH>12

H2D090107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		PH>12
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		PH>12
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		PH<2
CB5010	FIELDQC-BW-CB5010-TB	08 APR 2002	16:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H2D090107

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: 4-9-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?			X

2. If custody seals were missing/not intact, was client notified? — — X

PROJECT MANAGER : [signature] DATE: 4/11/02

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: _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D090107

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
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: pm DATE: 4/11/02

1F2D090107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002N

Project Number: 825635
Samples Shipment Date: 08 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095479

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [V]

Sample Disposal:
Return to Client [ ] Disposal by Lab [V] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 4/8/02 Time: 1800
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Anne Sanchez / STL N.C Anton Date: 4-9-02 Time: 950
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3017	MK-MW16-GW-CB3017-REG	08 APR 2002	12:38	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3022	PB BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total	N		

H2D090107

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1			
CB3022	PB-BED-MW14-GW-CB3022-REG	08 APR 2002	10:45	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3023	TNTB-BEDGW-004-GW-CB3023-REG	08 APR 2002	10:50	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3029	PB-TNTC-MW5-GW-CB3029-REG	08 APR 2002	14:35	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

H2D090107

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: FT Project: _____ Quote#: _____
Cooler Received on: 4-9-02 Opened on: 4-9-02 by: Anne Sanders (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 and intact? Yes ☑ No ☐
   If YES, Quantity 2 Location Overlid
   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 0.4 °C (see back of form for multiple coolers/temp)
   METHOD: Temperature Vial ☑ Between Coolant & Sample Container ☐ Against Bottles ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Were all the bottles sealed in separate plastic bags? Yes ☑ No ☐
8. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
9. Did all bottle labels and tags agree with the custody papers? Yes ☑ No ☐
10. Were samples at the correct pH? Yes ☑ No ☐ NA ☐
11. Were correct bottles used for the tests indicated? Yes ☑ No ☐
12. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
13. 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	Samples were received under proper custody procedures and without discrepancies.
	SR1B	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. NCM	
	SR4A	NCM has been generated. Refer to Clouseau for details
	5. Other Anomalies (see below or back)	

M2D090107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002K

Project Number: 825635
Project Name: PLUM BROOK ORDNANCE WKS
Sample Coordinator: Don Dill
Turnaround Time:

Samples Shipment Date: 08 APR 2002
Lab Destination: STL Knoxville
Lab Contact: Jamie McKinney
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095457

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Date: Time:	1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:	2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:	3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3017	PBOW-02-GW-MK-MW16-CB3017-5-5	08 APR 2002	12:38	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		

H20090107

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04082002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3022	PBOW-02-GW-PB-BED-MW14-CB3022-35-37	08 APR 2002	10:45	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3023	PBOW-02-GW-TNTB-BEDGW-004-CB3023-23-23	08 APR 2002	10:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3029	PBOW-02-GW-PB-TNTC-MW5-CB3029-4-4	08 APR 2002	14:35	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB5010	PBOW-02-BW-FIELDQC-CB5010--	08 APR 2002	16:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

SET 2

CB002 Sample Data Summary **1**

Sample Receipt Documentation **290**

Volatiles **329**
- Raw Sample Data 330
- Standards Data 679
- Raw QC Data 745
- Miscellaneous Data 798

Semivolatiles **807**
- Raw Sample Data 808
- Standards Data 1156
- Raw QC Data 1280
- Miscellaneous Data 1407

Explosives **1420**
- Raw Sample Data 1421
- Standards Data 1481
- Raw QC Data 1585
- Miscellaneous Data 1607

Metals **1615**
- Sample Results 1616
- QC Summary 1679
- Quality Control Results SuperTrace ICP 1712
- Quality Control Results Mercury 1751
- Raw Data SuperTrace ICP 1776
- Raw Data Mercury 2139
- Miscellaneous Data 2168

Wet Chemistry **2189**
- Sample Summary 2190
- QC Summary 2207
- Raw Data 2222
- Miscellaneous Data 2480

Sample Receipt Documentation **2490**

Total Number of Pages **2528**

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

REVISED

PBOW
SDG #: CB002

Maureen McMyler

IT Corporation - Knoxville
312 Directors Drive
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A McKinney

Jamie A. McKinney
Project Manager

May 14, 2002

SAMPLE SUMMARY

CB002 : H2D110123

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXPVW	001	CB3024	04/10/02	11:50
EXPVO	002	CB3025	04/10/02	08:40
EXPWC	003	CB3027	04/10/02	09:35
EXPWD	004	CB3028	04/10/02	10:50
EXPWF	005	CB3030	04/10/02	09:40
EXPWJ	006	CB3033	04/10/02	17:00
EXPW1	007	CB5013	04/10/02	
EXPXC	008	CB3024	04/10/02	11:50
EXPXF	009	CB3025	04/10/02	08:40
EXPXH	010	CB3027	04/10/02	09:35
EXPXJ	011	CB3028	04/10/02	10:50
EXPXK	012	CB3030	04/10/02	09:40

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.

(Continued on next page)

SAMPLE SUMMARY

CB002 : H2D120107

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXRV8	001	CB3014	04/11/02	11:00
EXRWA	002	CB3033	04/10/02	17:00
EXRWF	003	CB3034	04/10/02	17:00
EXRWM	004	CB3037	04/11/02	14:50
EXRWP	005	CB5016	04/11/02	18:00
EXRWR	006	CB3014	04/11/02	11:00
EXRWV	007	CB3033	04/10/02	17:00
EXRWX	008	CB3034	04/10/02	17:00
EXRW5	009	CB3037	04/11/02	14:50

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.

(Continued on next page)

SAMPLE SUMMARY

CB002 : H2D130124

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXV3E	001	CB3038	04/12/02	13:05
EXV4P	002	CB3038	04/12/02	13:05
EXV4Q	003	CB3039	04/12/02	09:50
EXV4T	004	CB3039	04/12/02	09:50
EXV40	005	CB3040	04/10/02	08:25
EXV42	006	CB3040	04/10/02	08:25
EXV43	007	CB3046	04/12/02	13:05
EXV45	008	CB3046	04/12/02	13:05
EXV46	009	CB5001	04/12/02	10:45
EXV48	010	CB5018	04/12/02	18:00
EX3P2	011	CB3040	04/11/02	07:55
EX3P3	012	CB3040	04/12/02	10:45

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
CB002
Revision

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

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The original chain of custody documentation was included with the original report.

Sample Receipt

Sample CB5013 was received but was not listed on the chain of custody.

The wet chemistry parameters for sample CB3024 were listed on the STL – Knoxville chain of custody, but the container was not received. The wet chemistry parameters for sample CB3024 were listed on the STL – North Canton chain of custody, and the container was received.

The hardness portion of sample CB3033 was listed on the chain of custody but was not received.

The metals portion of sample CB5001 was received at pH 6. The sample was preserved to pH 2 by laboratory personnel.

The filtered box was not marked on the metal containers for samples CB3038 and CB3046, however, the samples were labeled as total metals and dissolved metals.

The collection date for sample CB3040 was listed as 4/12/02 on the STL – Knoxville chain of custody, but the sample was labeled as 4/10/02. The client was contacted (V. Graves, 4/18/02) and instructed the laboratory to use the collection date on the label.

The collection date for the total organic carbon portion of sample CB3040 was listed as 4/11/02, but the sample was labeled as 4/10/02. The client was contacted (V. Graves, 4/18/02) and instructed the laboratory to use the collection date on the label.

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PROJECT NARRATIVE
CB002
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Sample Receipt (continued)

The collection time for the alkalinity, chloride, sulfate, total dissolved solids, and total suspended solids portion of sample CB3040 was listed as 4/18:25 AM, but the sample was labeled as 7:55 AM. The client was contacted (V. Graves, 4/18/02) and instructed the laboratory to use the collection time on the label.

An extra container was received at STL – North Canton for sample CB3038.

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 106.2), Hardness (MCAAW 130.2), 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

This report has been revised. The calibration information for the sample CB3014 was not included in the original report.

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

The pH of samples CB3012, CB3025, CB5018, CB3033, and CB3037 was greater than 2. The samples were 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.

Samples CB3012, CB3014, CB3025, CB3030, CB3026, CB3033, CB3034, CB3037, CB3039 and CB3040 were 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.

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PROJECT NARRATIVE
CB002
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Semivolatiles

Due to a laboratory error, sample CB3014 was not prepared. The clinet was contacted (M. McMyler, 4/26/02) and instructed the laboratory to prepare the sample outside the holding time.

Explosives

Due to sample matrix interferences, estimated results below the reporting limit were not reported for one or more analytes for samples CB3025, CB3030, CB3014, CB3037, CB3038, CB3039, CB3040, and CB5001. The results were qualified with an "I" flag to indicate the presence of matrix interferences.

The matrix spike/matrix spike duplicate recoveries and RPDs for sample CB3038 were not calculated because the spikes were diluted out. The laboratory control sample/duplicate showed acceptable results indicating that the analysis was in control. Results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.

Metals

The serial dilution of sample CB3038F was outside control limits for potassium due to physical or chemical matrix interferences.

The serial dilution of sample CB3038 was outside control limits potassium due to physical or chemical matrix interferences.

The matrix spike/matrix spike duplicate recoveries for dissolved metals for sample CB3038 was outside control limits for iron. However, 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. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

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PROJECT NARRATIVE
CB002
Revision

Metals (continued)

The matrix spike/matrix spike duplicate results for were not calculated on sample CB3038 for total iron because the sample concentration was four times greater than the spiked amount.. The affected analyte is flagged appropriately on the matrix spike/matrix spike duplicate report.

Cyanide

Samples CB3012, CB3014, CB3025, CB3026, CB3030, CB3033, CB3039 and the method standards were treated for sulfide prior to distillation.

Sulfate

The matrix spike/matrix spike duplicate results for were not calculated on sample CB3038 because the sample concentration was four times greater than the spiked amount.. The affected analyte is flagged appropriately on the matrix spike/matrix spike duplicate report.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

GC/MS Volatiles

Lot-Sample #...: H2D100122-001 **Work Order #...:** EXMWA1A4 **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107292
Dilution Factor: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	**18 J,B**	**40**	**ug/L**
Acetone	**100 J**	**200**	**ug/L**
Carbon disulfide	ND	20	ug/L
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	ND	20	ug/L
1,2-Dichloroethene (total)	ND	20	ug/L
Chloroform	ND	20	ug/L
1,2-Dichloroethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	ND	20	ug/L
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	**70**	**20**	**ug/L**
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L
Toluene	**73**	**20**	**ug/L**
Chlorobenzene	ND	20	ug/L
Ethylbenzene	**83**	**20**	**ug/L**
Styrene	ND	20	ug/L
Xylenes (total)	**460**	**20**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	100	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	90	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

GC/MS Volatiles

Lot-Sample #...: H2D100122-001 **Work Order #...:** EXMWA1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

GC/MS Volatiles

Lot-Sample #...: H2D100122-002 **Work Order #...:** EXMWD1AF **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107292
Dilution Factor: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	**19 J,B**	**40**	**ug/L**
Acetone	**53 J**	**200**	**ug/L**
Carbon disulfide	ND	20	ug/L
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	ND	20	ug/L
1,2-Dichloroethene (total)	ND	20	ug/L
Chloroform	ND	20	ug/L
1,2-Dichloroethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	ND	20	ug/L
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	**8.4 J**	**20**	**ug/L**
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L
Toluene	**8.8 J**	**20**	**ug/L**
Chlorobenzene	ND	20	ug/L
Ethylbenzene	**12 J**	**20**	**ug/L**
Styrene	ND	20	ug/L
Xylenes (total)	**90**	**20**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	92	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

GC/MS Volatiles

Lot-Sample #...: H2D100122-002 **Work Order #...:** EXMWD1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5012

GC/MS Volatiles

Lot-Sample #...: H2D100122-003 Work Order #...: EXMWF1AA Matrix.....: WATER
Date Sampled...: 04/09/02 Date Received..: 04/10/02
Prep Date.....: 04/17/02 Analysis Date..: 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.19 J,B**	**2.0**	**ug/L**
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5012

GC/MS Volatiles

Lot-Sample #...: H2D100122-003 Work Order #...: EXMWF1AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

GC/MS Volatiles

Lot-Sample #...: H2D110123-001 **Work Order #...:** EXPVW1A4 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.44 J,B**	**2.0**	**ug/L**
Acetone	**85**	**10**	**ug/L**
Carbon disulfide	**0.37 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**69**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**14**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	**0.70 J**	**5.0**	**ug/L**
2-Hexanone	**0.56 J**	**5.0**	**ug/L**
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**4.7**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.52 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Xylenes (total)	**2.3**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
1,2-Dichloroethane-d4	100	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

GC/MS Volatiles

Lot-Sample #...: H2D110123-001 Work Order #...: EXPVW1A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

GC/MS Volatiles

Lot-Sample #...: H2D110123-002 **Work Order #...:** EXPV01AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 50 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	100	ug/L
Bromomethane	ND	100	ug/L
Vinyl chloride	ND	50	ug/L
Chloroethane	ND	100	ug/L
Methylene chloride	**49 J,B**	**100**	**ug/L**
Acetone	ND	500	ug/L
Carbon disulfide	ND	50	ug/L
1,1-Dichloroethene	ND	50	ug/L
1,1-Dichloroethane	ND	50	ug/L
1,2-Dichloroethene (total)	ND	50	ug/L
Chloroform	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
2-Butanone	ND	250	ug/L
1,1,1-Trichloroethane	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Bromodichloromethane	ND	50	ug/L
1,2-Dichloropropane	ND	50	ug/L
cis-1,3-Dichloropropene	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Dibromochloromethane	ND	50	ug/L
1,1,2-Trichloroethane	ND	50	ug/L
Benzene	**410**	**50**	**ug/L**
trans-1,3-Dichloropropene	ND	50	ug/L
Bromoform	ND	50	ug/L
4-Methyl-2-pentanone	ND	250	ug/L
2-Hexanone	ND	250	ug/L
Tetrachloroethene	ND	50	ug/L
1,1,2,2-Tetrachloroethane	ND	50	ug/L
Toluene	**300**	**50**	**ug/L**
Chlorobenzene	ND	50	ug/L
Ethylbenzene	**130**	**50**	**ug/L**
Styrene	ND	50	ug/L
Xylenes (total)	**1300**	**50**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	93	(80 - 120)
Bromofluorobenzene	92	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

GC/MS Volatiles

Lot-Sample #...: H2D110123-002 Work Order #...: EXPV01AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

GC/MS Volatiles

Lot-Sample #...: H2D110123-003 **Work Order #...:** EXPWC1AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**13**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**4.9 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
1,2-Dichloroethane-d4	104	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

GC/MS Volatiles

Lot-Sample #...: H2D110123-003 Work Order #...: EXPWC1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

GC/MS Volatiles

Lot-Sample #...: H2D110123-004 **Work Order #...:** EXPWD1AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1 **Method.....:** SW846 8260B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

GC/MS Volatiles

Lot-Sample #...: H2D110123-005 **Work Order #...:** EXPWF1AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107292
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	10	ug/L
Bromomethane	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	**3.9 J,B**	**10**	**ug/L**
Acetone	ND	50	ug/L
Carbon disulfide	**0.84 J**	**5.0**	**ug/L**
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
2-Butanone	ND	25	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**4.8 J**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Toluene	**2.2 J**	**5.0**	**ug/L**
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	**13**	**5.0**	**ug/L**
Styrene	ND	5.0	ug/L
Xylenes (total)	**98**	**5.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	92	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

GC/MS Volatiles

Lot-Sample #...: H2D110123-005 Work Order #...: EXPWF1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5013

GC/MS Volatiles

Lot-Sample #...: H2D110123-007 **Work Order #...:** EXPW11AA **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.18 J,B**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	100	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5013

GC/MS Volatiles

Lot-Sample #...: H2D110123-007 Work Order #...: EXPW11AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

GC/MS Volatiles

Lot-Sample #...: H2D120107-001 **Work Order #...:** EXRV81A4 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	**20 J**	**40**	**ug/L**
Acetone	ND	200	ug/L
Carbon disulfide	**2.3 J**	**20**	**ug/L**
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	ND	20	ug/L
1,2-Dichloroethene (total)	ND	20	ug/L
Chloroform	ND	20	ug/L
1,2-Dichloroethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	ND	20	ug/L
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	**13 J**	**20**	**ug/L**
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L
Toluene	**150**	**20**	**ug/L**
Chlorobenzene	ND	20	ug/L
Ethylbenzene	**100**	**20**	**ug/L**
Styrene	ND	20	ug/L
Xylenes (total)	**440**	**20**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

GC/MS Volatiles

Lot-Sample #...: H2D120107-001 Work Order #...: EXRV81A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

GC/MS Volatiles

Lot-Sample #...: H2D120107-002 **Work Order #...:** EXRWA1AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 10 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	**9.2 J**	**20**	**ug/L**
Acetone	ND	100	ug/L
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	ND	10	ug/L
Chloroform	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	**8.0 J**	**10**	**ug/L**
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Toluene	**12**	**10**	**ug/L**
Chlorobenzene	ND	10	ug/L
Ethylbenzene	**4.6 J**	**10**	**ug/L**
Styrene	ND	10	ug/L
Xylenes (total)	**31**	**10**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

GC/MS Volatiles

Lot-Sample #...: H2D120107-002 Work Order #...: EXRWA1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: **CB3034**

GC/MS Volatiles

Lot-Sample #...: H2D120107-003 **Work Order #...:** EXRWF1AF **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 10 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	**9.6 J**	**20**	**ug/L**
Acetone	ND	100	ug/L
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	ND	10	ug/L
Chloroform	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	**7.5 J**	**10**	**ug/L**
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Toluene	**11**	**10**	**ug/L**
Chlorobenzene	ND	10	ug/L
Ethylbenzene	**4.1 J**	**10**	**ug/L**
Styrene	ND	10	ug/L
Xylenes (total)	**28**	**10**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	91	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

GC/MS Volatiles

Lot-Sample #...: H2D120107-003 **Work Order #...:** EXRWF1AF **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

GC/MS Volatiles

Lot-Sample #...: H2D120107-004 **Work Order #...:** EXRWM1AF **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 10 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	**11 J**	**20**	**ug/L**
Acetone	**60 J**	**100**	**ug/L**
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	ND	10	ug/L
Chloroform	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	**150**	**10**	**ug/L**
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Toluene	**150**	**10**	**ug/L**
Chlorobenzene	ND	10	ug/L
Ethylbenzene	**40**	**10**	**ug/L**
Styrene	ND	10	ug/L
Xylenes (total)	**610**	**10**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

GC/MS Volatiles

Lot-Sample #...: H2D120107-004 Work Order #...: EXRWM1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5016

GC/MS Volatiles

Lot-Sample #...: H2D120107-005 **Work Order #...:** EXRWP1AA **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.22 J**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5016

GC/MS Volatiles

Lot-Sample #...: H2D120107-005 **Work Order #...:** EXRWP1AA **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

GC/MS Volatiles

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E1DP **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**2.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	104	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

GC/MS Volatiles

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E1DP **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

GC/MS Volatiles

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A4 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2108250
Dilution Factor: 100 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	200	ug/L
Bromomethane	ND	200	ug/L
Vinyl chloride	ND	100	ug/L
Chloroethane	ND	200	ug/L
Methylene chloride	**110 J**	**200**	**ug/L**
Acetone	**140 J**	**1000**	**ug/L**
Carbon disulfide	ND	100	ug/L
1,1-Dichloroethene	ND	100	ug/L
1,1-Dichloroethane	ND	100	ug/L
1,2-Dichloroethene (total)	ND	100	ug/L
Chloroform	ND	100	ug/L
1,2-Dichloroethane	ND	100	ug/L
2-Butanone	ND	500	ug/L
1,1,1-Trichloroethane	ND	100	ug/L
Carbon tetrachloride	ND	100	ug/L
Bromodichloromethane	ND	100	ug/L
1,2-Dichloropropane	ND	100	ug/L
cis-1,3-Dichloropropene	ND	100	ug/L
Trichloroethene	**18 J**	**100**	**ug/L**
Dibromochloromethane	ND	100	ug/L
1,1,2-Trichloroethane	ND	100	ug/L
Benzene	**36 J**	**100**	**ug/L**
trans-1,3-Dichloropropene	ND	100	ug/L
Bromoform	ND	100	ug/L
4-Methyl-2-pentanone	ND	500	ug/L
2-Hexanone	ND	500	ug/L
Tetrachloroethene	ND	100	ug/L
1,1,2,2-Tetrachloroethane	ND	100	ug/L
Toluene	**40 J**	**100**	**ug/L**
Chlorobenzene	ND	100	ug/L
Ethylbenzene	**25 J**	**100**	**ug/L**
Styrene	ND	100	ug/L
Xylenes (total)	**310**	**100**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

GC/MS Volatiles

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

GC/MS Volatiles

Lot-Sample #...: H2D130124-005 **Work Order #...:** EXV401A4 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2108250
Dilution Factor: 100 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	200	ug/L
Bromomethane	ND	200	ug/L
Vinyl chloride	ND	100	ug/L
Chloroethane	ND	200	ug/L
Methylene chloride	**100 J**	**200**	**ug/L**
Acetone	**1400**	**1000**	**ug/L**
Carbon disulfide	ND	100	ug/L
1,1-Dichloroethene	ND	100	ug/L
1,1-Dichloroethane	ND	100	ug/L
1,2-Dichloroethene (total)	ND	100	ug/L
Chloroform	ND	100	ug/L
1,2-Dichloroethane	ND	100	ug/L
2-Butanone	ND	500	ug/L
1,1,1-Trichloroethane	ND	100	ug/L
Carbon tetrachloride	ND	100	ug/L
Bromodichloromethane	ND	100	ug/L
1,2-Dichloropropane	ND	100	ug/L
cis-1,3-Dichloropropene	ND	100	ug/L
Trichloroethene	ND	100	ug/L
Dibromochloromethane	ND	100	ug/L
1,1,2-Trichloroethane	ND	100	ug/L
Benzene	**2500**	**100**	**ug/L**
trans-1,3-Dichloropropene	ND	100	ug/L
Bromoform	ND	100	ug/L
4-Methyl-2-pentanone	ND	500	ug/L
2-Hexanone	ND	500	ug/L
Tetrachloroethene	ND	100	ug/L
1,1,2,2-Tetrachloroethane	ND	100	ug/L
Toluene	**1000**	**100**	**ug/L**
Chlorobenzene	ND	100	ug/L
Ethylbenzene	**230**	**100**	**ug/L**
Styrene	ND	100	ug/L
Xylenes (total)	**1600**	**100**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

GC/MS Volatiles

Lot-Sample #...: H2D130124-005 Work Order #...: EXV401A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

GC/MS Volatiles

Lot-Sample #...: H2D130124-007 **Work Order #...:** EXV431A4 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**2.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

GC/MS Volatiles

Lot-Sample #...: H2D130124-007 Work Order #...: EXV431A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

GC/MS Volatiles

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A4 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**1.7 J**	**2.0**	**ug/L**
Acetone	**2.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.52 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

GC/MS Volatiles

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A4 **Matrix.....:** WATER

NOTE(S):

J Estimated result Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5018

GC/MS Volatiles

Lot-Sample #...: H2D130124-010 **Work Order #...:** EXV481AA **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1 **Method.....:** SW846 8260B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB002 **Work Order #...:** EX15N1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D170000-292

Prep Date.....: 04/17/02
Analysis Date..: 04/17/02 **Prep Batch #...:** 2107292
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	**0.24 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)	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	ND	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	ND	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	98	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB002 **Work Order #...:** EX15N1AA **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 #...: CB002 **Work Order #...:** EX15N1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-292
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**102**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**102**	**(76 - 120)**	**SW846 8260B**
Benzene	**101**	**(76 - 120)**	**SW846 8260B**
Toluene	**102**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

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 #...: CB002 **Work Order #...:** EX15N1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-292
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107292
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Trichloroethene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Benzene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.94**	**ug/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB002 **Work Order #...:** EX38X1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D180000-250

Prep Date.....: 04/18/02
Analysis Date..: 04/18/02 **Prep Batch #...:** 2108250
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	ND	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	ND	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	100	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	97	(72 - 135)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB002 **Work Order #...:** EX38X1AA **Matrix.....:** WATER

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: CB002 **Work Order #...:** EX38X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D180000-250
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**96**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**101**	**(76 - 120)**	**SW846 8260B**
Benzene	**100**	**(76 - 120)**	**SW846 8260B**
Toluene	**100**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	92	(72 - 135)

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 #...: CB002 **Work Order #...:** EX38X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D180000-250
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.61**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Benzene	**10.0**	**9.98**	**ug/L**	**100**	**SW846 8260B**
Toluene	**10.0**	**9.97**	**ug/L**	**100**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.89**	**ug/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	99	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	92	(72 - 135)

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 #...: CB002 **Work Order #...:** EXV3E1DQ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DR-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(58 - 130)**			**SW846 8260B**
	103	**(58 - 130)**	**2.6**	**(0-26)**	**SW846 8260B**
Trichloroethene	**107**	**(50 - 152)**			**SW846 8260B**
	106	**(50 - 152)**	**1.4**	**(0-17)**	**SW846 8260B**
Benzene	**107**	**(68 - 125)**			**SW846 8260B**
	105	**(68 - 125)**	**2.3**	**(0-19)**	**SW846 8260B**
Toluene	**104**	**(66 - 127)**			**SW846 8260B**
	103	**(66 - 127)**	**1.5**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**103**	**(70 - 120)**			**SW846 8260B**
	102	**(70 - 120)**	**0.85**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
	96	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
	98	(80 - 120)
Toluene-d8	95	(80 - 120)
	96	(80 - 120)
Bromofluorobenzene	94	(72 - 135)
	94	(72 - 135)

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 #...: CB002 **Work Order #...:** EXV3E1DQ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DR-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/18/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2108250
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**2.6**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**1.4**	**SW846 8260B**
Benzene	**ND**	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	ND	**10.0**	**10.5**	**ug/L**	**105**	**2.3**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**1.5**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**0.85**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
	96	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
	98	(80 - 120)
Toluene-d8	95	(80 - 120)
	96	(80 - 120)
Bromofluorobenzene	94	(72 - 135)
	94	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-001 **Work Order #...:** EXMWA1A5 **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2100277
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**2.0 J**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**0.89 J**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**1.1 J**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**5.1 J**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**14**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**18**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-001 **Work Order #...:** EXMWA1A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**0.75 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(29 - 110)
Phenol-d5	72	(41 - 115)
Nitrobenzene-d5	74	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	87	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-001 Work Order #...: EXMWA1A5 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-002 **Work Order #...:** EXMWD1AG **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/10/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2100277
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**2.5 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**3.2 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-002 **Work Order #...:** EXMWD1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(29 - 110)
Phenol-d5	73	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
2-Fluorobiphenyl	84	(44 - 116)
2,4,6-Tribromophenol	88	(31 - 138)
Terphenyl-d14	90	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

GC/MS Semivolatiles

Lot-Sample #...: H2D100122-002 Work Order #...: EXMWD1AG Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-001 **Work Order #...:** EXPVW1A5 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**1.6 J**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**2.8 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**4.8 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-001 **Work Order #...:** EXPVW1A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**0.73 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(29 - 110)
Phenol-d5	75	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	67	(44 - 116)
2,4,6-Tribromophenol	79	(31 - 138)
Terphenyl-d14	40	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-001 Work Order #...: EXPVW1A5 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-002 **Work Order #...:** EXPV01AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**11**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**6.0 J**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**5.8 J**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**21**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**34**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**34**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-002 **Work Order #...:** EXPV01AG **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	**1.4 J**	**10**	**ug/L**
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**1.9 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**5.2 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(29 - 110)
Phenol-d5	73	(41 - 115)
Nitrobenzene-d5	70	(46 - 117)
2-Fluorobiphenyl	84	(44 - 116)
2,4,6-Tribromophenol	107	(31 - 138)
Terphenyl-d14	86	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-002 Work Order #...: EXPV01AG Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-003 **Work Order #...:** EXPWC1AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-003 **Work Order #...:** EXPWC1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(29 - 110)
Phenol-d5	74	(41 - 115)
Nitrobenzene-d5	85	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
2,4,6-Tribromophenol	87	(31 - 138)
Terphenyl-d14	86	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-004 **Work Order #...:** EXPWD1AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-004 **Work Order #...:** EXPWD1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(29 - 110)
Phenol-d5	64	(41 - 115)
Nitrobenzene-d5	64	(46 - 117)
2-Fluorobiphenyl	72	(44 - 116)
2,4,6-Tribromophenol	75	(31 - 138)
Terphenyl-d14	81	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-005 **Work Order #...:** EXPWF1AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**1.8 J**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**2.5 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**3.2 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-005 **Work Order #...:** EXPWF1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(29 - 110)
Phenol-d5	66	(41 - 115)
Nitrobenzene-d5	62	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
2,4,6-Tribromophenol	92	(31 - 138)
Terphenyl-d14	87	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

GC/MS Semivolatiles

Lot-Sample #...: H2D110123-005 **Work Order #...:** EXPWF1AG **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-001 **Work Order #...:** EXRV81A5 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/26/02 **Analysis Date..:** 04/30/02
Prep Batch #...: 2102307
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**2.0 J**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**1.4 J**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**3.0 J**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**10**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**7.5 J**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-001 **Work Order #...:** EXRV81A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**4.0 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(29 - 110)
Phenol-d5	63	(41 - 115)
Nitrobenzene-d5	67	(46 - 117)
2-Fluorobiphenyl	69	(44 - 116)
2,4,6-Tribromophenol	95	(31 - 138)
Terphenyl-d14	100	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-001 Work Order #...: EXRV81A5 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-002 **Work Order #...:** EXRWA1AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**0.70 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-002 **Work Order #...:** EXRWA1AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(29 - 110)
Phenol-d5	69	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	84	(31 - 138)
Terphenyl-d14	90	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-002 Work Order #...: EXRWA1AG Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-003 **Work Order #...:** EXRWF1AG **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**0.72 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-003 Work Order #...: EXRWF1AG Matrix.....: WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(29 - 110)
Phenol-d5	69	(41 - 115)
Nitrobenzene-d5	90	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	71	(31 - 138)
Terphenyl-d14	86	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-003 Work Order #...: EXRWF1AG Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-004 **Work Order #...:** EXRWM1AG **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**1.0 J**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**0.88 J**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**13**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**5.0 J**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**24**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-004 **Work Order #...:** EXRWM1AG **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	**1.8 J**	**10**	**ug/L**
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**2.6 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**2.1 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
Phenol-d5	70	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	101	(31 - 138)
Terphenyl-d14	81	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

GC/MS Semivolatiles

Lot-Sample #...: H2D120107-004 **Work Order #...:** EXRWM1AG **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E1DT **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E1DT **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**4.0 J**	**10**	**ug/L**
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	95	(46 - 117)
2-Fluorobiphenyl	95	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
Terphenyl-d14	93	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-001 Work Order #...: EXV3E1DT Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A5 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**16**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**23**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	**1.2 J**	**10**	**ug/L**
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**1.9 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	**0.54 J**	**10**	**ug/L**
bis(2-Ethylhexyl) phthalate	**0.91 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(29 - 110)
Phenol-d5	67	(41 - 115)
Nitrobenzene-d5	77	(46 - 117)
2-Fluorobiphenyl	89	(44 - 116)
2,4,6-Tribromophenol	106	(31 - 138)
Terphenyl-d14	91	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A5 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-005 **Work Order #...:** EXV401A5 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**150**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**37**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**43**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**51**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**31**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**32**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-005 **Work Order #...:** EXV401A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	**0.68 J**	**10**	**ug/L**
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	**1.4 J**	**10**	**ug/L**
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**2.4 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**3.3 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(29 - 110)
Phenol-d5	71	(41 - 115)
Nitrobenzene-d5	76	(46 - 117)
2-Fluorobiphenyl	89	(44 - 116)
2,4,6-Tribromophenol	107	(31 - 138)
Terphenyl-d14	91	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-005 Work Order #...: EXV401A5 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-007 **Work Order #...:** EXV431A5 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	**8.7 J**	**10**	**ug/L**

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-007 **Work Order #...:** EXV431A5 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**3.7 J**	**10**	**ug/L**
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**2.0 J**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(29 - 110)
Phenol-d5	69	(41 - 115)
Nitrobenzene-d5	87	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
2,4,6-Tribromophenol	99	(31 - 138)
Terphenyl-d14	94	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-007 **Work Order #...:** EXV431A5 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A5 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	74	(41 - 115)
Nitrobenzene-d5	86	(46 - 117)
2-Fluorobiphenyl	81	(44 - 116)
2,4,6-Tribromophenol	82	(31 - 138)
Terphenyl-d14	91	(36 - 134)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

GC/MS Semivolatiles

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A5 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXNEA1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D100000-277

Prep Date.....: 04/10/02
Analysis Date..: 04/24/02 **Prep Batch #...:** 2100277
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXNEA1AA **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	78	(29 - 110)
Phenol-d5	83	(41 - 115)
Nitrobenzene-d5	92	(46 - 117)
2-Fluorobiphenyl	100	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
Terphenyl-d14	95	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 Work Order #...: EXNEA1AA 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 #...: CB002 Work Order #...: EXNEA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: H2D100000-277 EXNEA1AD-LCSD
Prep Date.....: 04/10/02 Analysis Date..: 04/24/02
Prep Batch #...: 2100277
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	83	(62 - 103)			SW846 8270C
	86	(62 - 103)	3.4	(0-41)	SW846 8270C
2-Chlorophenol	82	(63 - 103)			SW846 8270C
	86	(63 - 103)	5.0	(0-43)	SW846 8270C
1,4-Dichlorobenzene	80	(65 - 102)			SW846 8270C
	83	(65 - 102)	3.3	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	83	(65 - 108)			SW846 8270C
	86	(65 - 108)	3.2	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	84	(67 - 104)			SW846 8270C
	87	(67 - 104)	3.2	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	85	(65 - 108)			SW846 8270C
	88	(65 - 108)	3.4	(0-29)	SW846 8270C
Acenaphthene	82	(59 - 100)			SW846 8270C
	86	(59 - 100)	3.7	(0-26)	SW846 8270C
4-Nitrophenol	79	(50 - 122)			SW846 8270C
	89	(50 - 122)	12	(0-50)	SW846 8270C
2,4-Dinitrotoluene	96	(69 - 128)			SW846 8270C
	103	(69 - 128)	7.6	(0-25)	SW846 8270C
Pentachlorophenol	80	(64 - 114)			SW846 8270C
	93	(64 - 114)	16	(0-37)	SW846 8270C
Pyrene	87	(52 - 119)			SW846 8270C
	93	(52 - 119)	6.9	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(29 - 110)
	81	(29 - 110)
Phenol-d5	84	(41 - 115)
	85	(41 - 115)
Nitrobenzene-d5	88	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
	96	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
	100	(31 - 138)
Terphenyl-d14	98	(36 - 134)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXNEA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-277 EXNEA1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	104	(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 #...: CB002 **Work Order #...:** EXNEA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-277 EXNEA1AD-LCSD
Prep Date.....: 04/10/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2100277
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	82.9	ug/L	83		SW846 8270C
	100	85.8	ug/L	86	3.4	SW846 8270C
2-Chlorophenol	100	81.5	ug/L	82		SW846 8270C
	100	85.7	ug/L	86	5.0	SW846 8270C
1,4-Dichlorobenzene	100	80.0	ug/L	80		SW846 8270C
	100	82.7	ug/L	83	3.3	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	83.1	ug/L	83		SW846 8270C
	100	85.8	ug/L	86	3.2	SW846 8270C
1,2,4-Trichloro-benzene	100	83.9	ug/L	84		SW846 8270C
	100	86.6	ug/L	87	3.2	SW846 8270C
4-Chloro-3-methylphenol	100	85.0	ug/L	85		SW846 8270C
	100	87.9	ug/L	88	3.4	SW846 8270C
Acenaphthene	100	82.4	ug/L	82		SW846 8270C
	100	85.5	ug/L	86	3.7	SW846 8270C
4-Nitrophenol	100	79.1	ug/L	79		SW846 8270C
	100	89.4	ug/L	89	12	SW846 8270C
2,4-Dinitrotoluene	100	95.5	ug/L	96		SW846 8270C
	100	103	ug/L	103	7.6	SW846 8270C
Pentachlorophenol	100	79.6	ug/L	80		SW846 8270C
	100	93.2	ug/L	93	16	SW846 8270C
Pyrene	100	87.1	ug/L	87		SW846 8270C
	100	93.3	ug/L	93	6.9	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(29 - 110)
	81	(29 - 110)
Phenol-d5	84	(41 - 115)
	85	(41 - 115)
Nitrobenzene-d5	88	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
	96	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
	100	(31 - 138)
Terphenyl-d14	98	(36 - 134)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXNEA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D100000-277 EXNEA1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	104	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXQF81AA **Matrix.....:** WATER
MB Lot-Sample #: H2D110000-273

Prep Date.....: 04/11/02
Analysis Date..: 04/24/02 **Prep Batch #...:** 2101273
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXQF81AA **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	73	(29 - 110)
Phenol-d5	78	(41 - 115)
Nitrobenzene-d5	88	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	81	(31 - 138)
Terphenyl-d14	92	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXQF81AA **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 #...: CB002 **Work Order #...:** EXQF81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-273 EXQF81AD-LCSD
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	74	(62 - 103)			SW846 8270C
	82	(62 - 103)	10	(0-41)	SW846 8270C
2-Chlorophenol	73	(63 - 103)			SW846 8270C
	82	(63 - 103)	11	(0-43)	SW846 8270C
1,4-Dichlorobenzene	74	(65 - 102)			SW846 8270C
	83	(65 - 102)	11	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	75	(65 - 108)			SW846 8270C
	82	(65 - 108)	8.5	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	74	(67 - 104)			SW846 8270C
	85	(67 - 104)	13	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	78	(65 - 108)			SW846 8270C
	87	(65 - 108)	11	(0-29)	SW846 8270C
Acenaphthene	78	(59 - 100)			SW846 8270C
	86	(59 - 100)	10	(0-26)	SW846 8270C
4-Nitrophenol	84	(50 - 122)			SW846 8270C
	90	(50 - 122)	6.8	(0-50)	SW846 8270C
2,4-Dinitrotoluene	94	(69 - 128)			SW846 8270C
	107	(69 - 128)	13	(0-25)	SW846 8270C
Pentachlorophenol	78	(64 - 114)			SW846 8270C
	90	(64 - 114)	14	(0-37)	SW846 8270C
Pyrene	86	(52 - 119)			SW846 8270C
	92	(52 - 119)	6.8	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(29 - 110)
	78	(29 - 110)
Phenol-d5	75	(41 - 115)
	83	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
	91	(46 - 117)
2-Fluorobiphenyl	86	(44 - 116)
	95	(44 - 116)
2,4,6-Tribromophenol	88	(31 - 138)
	102	(31 - 138)
Terphenyl-d14	95	(36 - 134)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXQF81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-273 EXQF81AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	104	(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 #...: CB002 **Work Order #...:** EXQF81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-273 EXQF81AD-LCSD
Prep Date.....: 04/11/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2101273
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	74.4	ug/L	74		SW846 8270C
	100	82.5	ug/L	82	10	SW846 8270C
2-Chlorophenol	100	73.1	ug/L	73		SW846 8270C
	100	82.0	ug/L	82	11	SW846 8270C
1,4-Dichlorobenzene	100	73.8	ug/L	74		SW846 8270C
	100	82.6	ug/L	83	11	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	75.4	ug/L	75		SW846 8270C
	100	82.1	ug/L	82	8.5	SW846 8270C
1,2,4-Trichloro-benzene	100	74.5	ug/L	74		SW846 8270C
	100	84.9	ug/L	85	13	SW846 8270C
4-Chloro-3-methylphenol	100	78.0	ug/L	78		SW846 8270C
	100	87.0	ug/L	87	11	SW846 8270C
Acenaphthene	100	78.0	ug/L	78		SW846 8270C
	100	86.2	ug/L	86	10	SW846 8270C
4-Nitrophenol	100	83.9	ug/L	84		SW846 8270C
	100	89.8	ug/L	90	6.8	SW846 8270C
2,4-Dinitrotoluene	100	94.1	ug/L	94		SW846 8270C
	100	107	ug/L	107	13	SW846 8270C
Pentachlorophenol	100	78.1	ug/L	78		SW846 8270C
	100	90.3	ug/L	90	14	SW846 8270C
Pyrene	100	85.7	ug/L	86		SW846 8270C
	100	91.7	ug/L	92	6.8	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(29 - 110)
	78	(29 - 110)
Phenol-d5	75	(41 - 115)
	83	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
	91	(46 - 117)
2-Fluorobiphenyl	86	(44 - 116)
	95	(44 - 116)
2,4,6-Tribromophenol	88	(31 - 138)
	102	(31 - 138)
Terphenyl-d14	95	(36 - 134)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXQF81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-273 EXQF81AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	104	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXTJC1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D120000-307
Prep Date.....: 04/26/02
Analysis Date..: 04/30/02 **Prep Batch #...:** 2102307
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXTJC1AA **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	72	(29 - 110)
Phenol-d5	74	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	86	(44 - 116)
2,4,6-Tribromophenol	78	(31 - 138)
Terphenyl-d14	106	(36 - 134)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 Work Order #...: EXTJC1AA 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 #...: CB002 **Work Order #...:** EXTJC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-307 EXTJC1AD-LCSD
Prep Date.....: 04/26/02 **Analysis Date..:** 04/30/02
Prep Batch #...: 2102307
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**83**	**(62 - 103)**			**SW846 8270C**
	85	**(62 - 103)**	**2.9**	**(0-41)**	**SW846 8270C**
2-Chlorophenol	**90**	**(63 - 103)**			**SW846 8270C**
	91	**(63 - 103)**	**0.66**	**(0-43)**	**SW846 8270C**
1,4-Dichlorobenzene	**78**	**(65 - 102)**			**SW846 8270C**
	80	**(65 - 102)**	**2.5**	**(0-37)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**83**	**(65 - 108)**			**SW846 8270C**
	85	**(65 - 108)**	**2.1**	**(0-36)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**91**	**(67 - 104)**			**SW846 8270C**
	91	**(67 - 104)**	**0.65**	**(0-36)**	**SW846 8270C**
4-Chloro-3-methylphenol	**91**	**(65 - 108)**			**SW846 8270C**
	91	**(65 - 108)**	**0.65**	**(0-29)**	**SW846 8270C**
Acenaphthene	**92**	**(59 - 100)**			**SW846 8270C**
	92	**(59 - 100)**	**0.43**	**(0-26)**	**SW846 8270C**
4-Nitrophenol	**91**	**(50 - 122)**			**SW846 8270C**
	97	**(50 - 122)**	**6.2**	**(0-50)**	**SW846 8270C**
2,4-Dinitrotoluene	**116**	**(69 - 128)**			**SW846 8270C**
	122	**(69 - 128)**	**5.0**	**(0-25)**	**SW846 8270C**
Pentachlorophenol	**85**	**(64 - 114)**			**SW846 8270C**
	90	**(64 - 114)**	**5.8**	**(0-37)**	**SW846 8270C**
Pyrene	**99**	**(52 - 119)**			**SW846 8270C**
	97	**(52 - 119)**	**2.2**	**(0-27)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	82	(29 - 110)
	84	(29 - 110)
Phenol-d5	88	(41 - 115)
	88	(41 - 115)
Nitrobenzene-d5	90	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
	92	(44 - 116)
2,4,6-Tribromophenol	103	(31 - 138)
	100	(31 - 138)
Terphenyl-d14	100	(36 - 134)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXTJC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-307 EXTJC1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	101	(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 #...: CB002 **Work Order #...:** EXTJC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-307 EXTJC1AD-LCSD
Prep Date.....: 04/26/02 **Analysis Date..:** 04/30/02
Prep Batch #...: 2102307
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	82.7	ug/L	83		SW846 8270C
	100	85.1	ug/L	85	2.9	SW846 8270C
2-Chlorophenol	100	90.5	ug/L	90		SW846 8270C
	100	91.1	ug/L	91	0.66	SW846 8270C
1,4-Dichlorobenzene	100	77.7	ug/L	78		SW846 8270C
	100	79.7	ug/L	80	2.5	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	83.0	ug/L	83		SW846 8270C
	100	84.8	ug/L	85	2.1	SW846 8270C
1,2,4-Trichloro-benzene	100	91.4	ug/L	91		SW846 8270C
	100	90.8	ug/L	91	0.65	SW846 8270C
4-Chloro-3-methylphenol	100	90.8	ug/L	91		SW846 8270C
	100	91.4	ug/L	91	0.65	SW846 8270C
Acenaphthene	100	91.9	ug/L	92		SW846 8270C
	100	92.3	ug/L	92	0.43	SW846 8270C
4-Nitrophenol	100	90.9	ug/L	91		SW846 8270C
	100	96.7	ug/L	97	6.2	SW846 8270C
2,4-Dinitrotoluene	100	116	ug/L	116		SW846 8270C
	100	122	ug/L	122	5.0	SW846 8270C
Pentachlorophenol	100	84.6	ug/L	85		SW846 8270C
	100	89.7	ug/L	90	5.8	SW846 8270C
Pyrene	100	99.0	ug/L	99		SW846 8270C
	100	96.8	ug/L	97	2.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	82	(29 - 110)
	84	(29 - 110)
Phenol-d5	88	(41 - 115)
	88	(41 - 115)
Nitrobenzene-d5	90	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
	92	(44 - 116)
2,4,6-Tribromophenol	103	(31 - 138)
	100	(31 - 138)
Terphenyl-d14	100	(36 - 134)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXTJC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D120000-307 EXTJC1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	101	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXXPC1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D160000-136

Prep Date.....: 04/16/02
Analysis Date..: 04/24/02 **Prep Batch #...:** 2106136
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXXPC1AA **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	71	(29 - 110)
Phenol-d5	76	(41 - 115)
Nitrobenzene-d5	87	(46 - 117)
2-Fluorobiphenyl	92	(44 - 116)
2,4,6-Tribromophenol	75	(31 - 138)
Terphenyl-d14	94	(36 - 134)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 Work Order #...: EXXPC1AA 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 #...: CB002 **Work Order #...:** EXXPC1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D160000-136
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**81**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**79**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**80**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**82**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**85**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**86**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**85**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**92**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**105**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**88**	**(64 - 114)**	**SW846 8270C**
Pyrene	**92**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(29 - 110)
Phenol-d5	80	(41 - 115)
Nitrobenzene-d5	91	(46 - 117)
2-Fluorobiphenyl	96	(44 - 116)
2,4,6-Tribromophenol	102	(31 - 138)
Terphenyl-d14	105	(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 #...: CB002 **Work Order #...:** EXXPC1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2D160000-136
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**81.0**	**ug/L**	**81**	**SW846 8270C**
2-Chlorophenol	**100**	**79.4**	**ug/L**	**79**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**80.2**	**ug/L**	**80**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**82.2**	**ug/L**	**82**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**84.6**	**ug/L**	**85**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**86.1**	**ug/L**	**86**	**SW846 8270C**
Acenaphthene	**100**	**84.7**	**ug/L**	**85**	**SW846 8270C**
4-Nitrophenol	**100**	**92.0**	**ug/L**	**92**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**105**	**ug/L**	**105**	**SW846 8270C**
Pentachlorophenol	**100**	**88.5**	**ug/L**	**88**	**SW846 8270C**
Pyrene	**100**	**92.3**	**ug/L**	**92**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(29 - 110)
Phenol-d5	80	(41 - 115)
Nitrobenzene-d5	91	(46 - 117)
2-Fluorobiphenyl	96	(44 - 116)
2,4,6-Tribromophenol	102	(31 - 138)
Terphenyl-d14	105	(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 #...: CB002 **Work Order #...:** EXV3E1DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DV-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	83	(58 - 103)			SW846 8270C
	83	(58 - 103)	0.49	(0-41)	SW846 8270C
2-Chlorophenol	84	(54 - 103)			SW846 8270C
	82	(54 - 103)	3.6	(0-43)	SW846 8270C
1,4-Dichlorobenzene	82	(56 - 102)			SW846 8270C
	82	(56 - 102)	1.4	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	82	(61 - 108)			SW846 8270C
	81	(61 - 108)	2.3	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	88	(58 - 104)			SW846 8270C
	85	(58 - 104)	4.3	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	91	(65 - 108)			SW846 8270C
	87	(65 - 108)	5.0	(0-29)	SW846 8270C
Acenaphthene	87	(59 - 100)			SW846 8270C
	84	(59 - 100)	4.5	(0-26)	SW846 8270C
4-Nitrophenol	99	(50 - 122)			SW846 8270C
	96	(50 - 122)	3.4	(0-50)	SW846 8270C
2,4-Dinitrotoluene	113	(67 - 128)			SW846 8270C
	108	(67 - 128)	5.4	(0-25)	SW846 8270C
Pentachlorophenol	89	(64 - 118)			SW846 8270C
	87	(64 - 118)	3.3	(0-37)	SW846 8270C
Pyrene	96	(51 - 119)			SW846 8270C
	93	(51 - 119)	4.5	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(29 - 110)
	80	(29 - 110)
Phenol-d5	82	(41 - 115)
	83	(41 - 115)
Nitrobenzene-d5	95	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	99	(44 - 116)
	94	(44 - 116)
2,4,6-Tribromophenol	101	(31 - 138)
	99	(31 - 138)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXV3E1DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DV-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	105	(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 #...: CB002 **Work Order #...:** EXV3E1DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DV-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/16/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2106136
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	97.6	80.7	ug/L	83		SW846 8270C
	ND	96.6	80.3	ug/L	83	0.49	SW846 8270C
2-Chlorophenol	ND	97.6	82.2	ug/L	84		SW846 8270C
	ND	96.6	79.3	ug/L	82	3.6	SW846 8270C
1,4-Dichlorobenzene	ND	97.6	80.4	ug/L	82		SW846 8270C
	ND	96.6	79.3	ug/L	82	1.4	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	97.6	79.6	ug/L	82		SW846 8270C
	ND	96.6	77.8	ug/L	81	2.3	SW846 8270C
1,2,4-Trichloro-benzene	ND	97.6	85.5	ug/L	88		SW846 8270C
	ND	96.6	81.9	ug/L	85	4.3	SW846 8270C
4-Chloro-3-methylphenol	ND	97.6	88.6	ug/L	91		SW846 8270C
	ND	96.6	84.3	ug/L	87	5.0	SW846 8270C
Acenaphthene	ND	97.6	84.7	ug/L	87		SW846 8270C
	ND	96.6	81.0	ug/L	84	4.5	SW846 8270C
4-Nitrophenol	ND	97.6	96.3	ug/L	99		SW846 8270C
	ND	96.6	93.1	ug/L	96	3.4	SW846 8270C
2,4-Dinitrotoluene	4.0	97.6	114	ug/L	113		SW846 8270C
	4.0	96.6	108	ug/L	108	5.4	SW846 8270C
Pentachlorophenol	ND	97.6	87.3	ug/L	89		SW846 8270C
	ND	96.6	84.5	ug/L	87	3.3	SW846 8270C
Pyrene	ND	97.6	93.8	ug/L	96		SW846 8270C
	ND	96.6	89.7	ug/L	93	4.5	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(29 - 110)
	80	(29 - 110)
Phenol-d5	82	(41 - 115)
	83	(41 - 115)
Nitrobenzene-d5	95	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	99	(44 - 116)
	94	(44 - 116)
2,4,6-Tribromophenol	101	(31 - 138)
	99	(31 - 138)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB002 **Work Order #...:** EXV3E1DU-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DV-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	105	(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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

HPLC

Lot-Sample #...: H2D100122-001 **Work Order #...:** EXMWA1A3 **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	**0.59**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**0.58**	**0.20**	**ug/L**
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

HPLC

Lot-Sample #...: H2D100122-002 **Work Order #...:** EXMWD1AE **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

HPLC

Lot-Sample #...: H2D110123-001 **Work Order #...:** EXPVW1A3 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

HPLC

Lot-Sample #...: H2D110123-002 **Work Order #...:** EXPV01AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND I	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND G	0.55	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND G	1.1	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND G	0.42	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND G	0.35	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

HPLC

Lot-Sample #...: H2D110123-003 **Work Order #...:** EXPWC1AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	78	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

HPLC

Lot-Sample #...: H2D110123-004 **Work Order #...:** EXPWD1AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	68	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

HPLC

Lot-Sample #...: H2D110123-005 **Work Order #...:** EXPWF1AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND G	0.61	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND I	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND G	0.50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	85	(53 - 133)

NOTE(S):

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

I Matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

HPLC

Lot-Sample #...: H2D120107-001 **Work Order #...:** EXRV81A3 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND G	6.5	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND G	3.4	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND G	0.25	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	**0.55**	**0.20**	**ug/L**
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND I	0.20	ug/L

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

NOTE(S):

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

I Matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

HPLC

Lot-Sample #...: H2D120107-002 **Work Order #...:** EXRWA1AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	125	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

HPLC

Lot-Sample #...: H2D120107-003 **Work Order #...:** EXRWF1AE **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

HPLC

Lot-Sample #...: H2D120107-004 **Work Order #...:** EXRWM1AE **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2107139
Dilution Factor: 2 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND I	1.0	ug/L
RDX	ND G	6.8	ug/L
1,3,5-Trinitrobenzene	ND G	4.3	ug/L
1,3-Dinitrobenzene	ND	0.40	ug/L
Tetryl	ND I	0.40	ug/L
Nitrobenzene	ND	0.40	ug/L
2,4,6-Trinitrotoluene	ND G	0.49	ug/L
4-Amino-2,6-dinitrotoluene	ND G	2.4	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.40	ug/L
2,6-Dinitrotoluene	**11**	**0.40**	**ug/L**
2,4-Dinitrotoluene	ND G	1.0	ug/L
2-Nitrotoluene	ND	0.40	ug/L
4-Nitrotoluene	ND	0.40	ug/L
3-Nitrotoluene	ND	0.40	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	81	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

HPLC

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E1DL **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 15 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	7.5	ug/L
RDX	ND I	7.5	ug/L
1,3,5-Trinitrobenzene	ND	3.0	ug/L
1,3-Dinitrobenzene	ND	3.0	ug/L
Tetryl	ND	3.0	ug/L
Nitrobenzene	ND	3.0	ug/L
2,4,6-Trinitrotoluene	**68**	**3.0**	**ug/L**
4-Amino-2,6-dinitrotoluene	**22**	**3.0**	**ug/L**
2-Amino-4,6-dinitrotoluene	**26**	**3.0**	**ug/L**
2,6-Dinitrotoluene	**4.0**	**3.0**	**ug/L**
2,4-Dinitrotoluene	**5.8**	**3.0**	**ug/L**
2-Nitrotoluene	ND	3.0	ug/L
4-Nitrotoluene	ND	3.0	ug/L
3-Nitrotoluene	ND	3.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

I Matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

HPLC

Lot-Sample #...: H2D130124-003 **Work Order #...:** EXV4Q1A3 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	0.50	ug/L
RDX	ND	0.50	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND I	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND G	0.75	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

HPLC

Lot-Sample #...: H2D130124-005 **Work Order #...:** EXV401A3 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 5 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND I	2.5	ug/L
RDX	ND	2.5	ug/L
1,3,5-Trinitrobenzene	ND	1.0	ug/L
1,3-Dinitrobenzene	ND	1.0	ug/L
Tetryl	ND	1.0	ug/L
Nitrobenzene	ND	1.0	ug/L
2,4,6-Trinitrotoluene	ND G	1.3	ug/L
4-Amino-2,6-dinitrotoluene	ND G	1.6	ug/L
2-Amino-4,6-dinitrotoluene	ND I	1.0	ug/L
2,6-Dinitrotoluene	ND G	3.6	ug/L
2,4-Dinitrotoluene	ND I	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
4-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	122	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

HPLC

Lot-Sample #...: H2D130124-007 **Work Order #...:** EXV431A3 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 15 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	7.5	ug/L
RDX	ND	7.5	ug/L
1,3,5-Trinitrobenzene	ND	3.0	ug/L
1,3-Dinitrobenzene	ND	3.0	ug/L
Tetryl	ND	3.0	ug/L
Nitrobenzene	ND	3.0	ug/L
2,4,6-Trinitrotoluene	**60**	**3.0**	**ug/L**
4-Amino-2,6-dinitrotoluene	**20**	**3.0**	**ug/L**
2-Amino-4,6-dinitrotoluene	**23**	**3.0**	**ug/L**
2,6-Dinitrotoluene	**2.7 J**	**3.0**	**ug/L**
2,4-Dinitrotoluene	**5.0**	**3.0**	**ug/L**
2-Nitrotoluene	ND	3.0	ug/L
4-Nitrotoluene	ND	3.0	ug/L
3-Nitrotoluene	ND	3.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

HPLC

Lot-Sample #...: H2D130124-009 **Work Order #...:** EXV461A3 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(53 - 133)

NOTE(S):

1 Matrix interference.

METHOD BLANK REPORT

HPLC

Client Lot #...: CB002 **Work Order #...:** EXQTH1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D110000-333

Prep Date.....: 04/12/02
Analysis Date..: 04/16/02 **Prep Batch #...:** 2101333
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	116	(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 #...: CB002 **Work Order #...:** EXQTH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-333 EXQTH1AD-LCSD
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**100**	**(68 - 122)**			**SW846 8330**
	96	**(68 - 122)**	**4.5**	**(0-25)**	**SW846 8330**
RDX	**107**	**(71 - 127)**			**SW846 8330**
	106	**(71 - 127)**	**1.6**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**101**	**(70 - 124)**			**SW846 8330**
	98	**(70 - 124)**	**3.0**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**99**	**(72 - 124)**			**SW846 8330**
	96	**(72 - 124)**	**2.7**	**(0-25)**	**SW846 8330**
Tetryl	**78**	**(68 - 123)**			**SW846 8330**
	76	**(68 - 123)**	**3.3**	**(0-26)**	**SW846 8330**
Nitrobenzene	**70**	**(60 - 122)**			**SW846 8330**
	70	**(60 - 122)**	**0.12**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**91**	**(71 - 123)**			**SW846 8330**
	88	**(71 - 123)**	**2.8**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**90**	**(66 - 122)**			**SW846 8330**
	86	**(66 - 122)**	**5.0**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**94**	**(65 - 124)**			**SW846 8330**
	90	**(65 - 124)**	**4.6**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**104**	**(66 - 129)**			**SW846 8330**
	101	**(66 - 129)**	**3.1**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**98**	**(70 - 125)**			**SW846 8330**
	95	**(70 - 125)**	**3.7**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**59**	**(54 - 121)**			**SW846 8330**
	59	**(54 - 121)**	**0.010**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**72**	**(59 - 123)**			**SW846 8330**
	71	**(59 - 123)**	**1.9**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**67**	**(58 - 124)**			**SW846 8330**
	67	**(58 - 124)**	**0.070**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(53 - 133)
	88	(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 #...: CB002 **Work Order #...:** EXQTH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D110000-333 EXQTH1AD-LCSD
Prep Date.....: 04/12/02 **Analysis Date..:** 04/16/02
Prep Batch #...: 2101333
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**3.01**	**ug/L**	**100**		**SW846 8330**
	3.00	**2.88**	**ug/L**	**96**	**4.5**	**SW846 8330**
RDX	**3.00**	**3.22**	**ug/L**	**107**		**SW846 8330**
	3.00	**3.17**	**ug/L**	**106**	**1.6**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**3.04**	**ug/L**	**101**		**SW846 8330**
	3.00	**2.95**	**ug/L**	**98**	**3.0**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.96**	**ug/L**	**99**		**SW846 8330**
	3.00	**2.88**	**ug/L**	**96**	**2.7**	**SW846 8330**
Tetryl	**3.00**	**2.35**	**ug/L**	**78**		**SW846 8330**
	3.00	**2.27**	**ug/L**	**76**	**3.3**	**SW846 8330**
Nitrobenzene	**3.00**	**2.10**	**ug/L**	**70**		**SW846 8330**
	3.00	**2.10**	**ug/L**	**70**	**0.12**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.72**	**ug/L**	**91**		**SW846 8330**
	3.00	**2.64**	**ug/L**	**88**	**2.8**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.71**	**ug/L**	**90**		**SW846 8330**
	3.00	**2.58**	**ug/L**	**86**	**5.0**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.83**	**ug/L**	**94**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**4.6**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**3.13**	**ug/L**	**104**		**SW846 8330**
	3.00	**3.03**	**ug/L**	**101**	**3.1**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.96**	**ug/L**	**98**		**SW846 8330**
	3.00	**2.85**	**ug/L**	**95**	**3.7**	**SW846 8330**
2-Nitrotoluene	**3.00**	**1.76**	**ug/L**	**59**		**SW846 8330**
	3.00	**1.76**	**ug/L**	**59**	**0.010**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.17**	**ug/L**	**72**		**SW846 8330**
	3.00	**2.13**	**ug/L**	**71**	**1.9**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.00**	**ug/L**	**67**		**SW846 8330**
	3.00	**2.00**	**ug/L**	**67**	**0.070**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(53 - 133)
	88	(53 - 133)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: CB002 **Work Order #...:** EX1LX1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D170000-139

Prep Date.....: 04/17/02
Analysis Date..: 04/18/02 **Prep Batch #...:** 2107139
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	99	(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 #...: CB002 **Work Order #...:** EX1LX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-139 EX1LX1AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**81**	**(68 - 122)**			**SW846 8330**
	95	**(68 - 122)**	**16**	**(0-25)**	**SW846 8330**
RDX	**88**	**(71 - 127)**			**SW846 8330**
	103	**(71 - 127)**	**16**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**84**	**(70 - 124)**			**SW846 8330**
	98	**(70 - 124)**	**16**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**85**	**(72 - 124)**			**SW846 8330**
	100	**(72 - 124)**	**16**	**(0-25)**	**SW846 8330**
Tetryl	**78**	**(68 - 123)**			**SW846 8330**
	94	**(68 - 123)**	**19**	**(0-26)**	**SW846 8330**
Nitrobenzene	**77**	**(60 - 122)**			**SW846 8330**
	90	**(60 - 122)**	**15**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**84**	**(71 - 123)**			**SW846 8330**
	99	**(71 - 123)**	**16**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**80**	**(66 - 122)**			**SW846 8330**
	92	**(66 - 122)**	**14**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**82**	**(65 - 124)**			**SW846 8330**
	94	**(65 - 124)**	**14**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**89**	**(66 - 129)**			**SW846 8330**
	101	**(66 - 129)**	**13**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**86**	**(70 - 125)**			**SW846 8330**
	100	**(70 - 125)**	**15**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**75**	**(54 - 121)**			**SW846 8330**
	83	**(54 - 121)**	**9.9**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**80**	**(59 - 123)**			**SW846 8330**
	87	**(59 - 123)**	**7.8**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**76**	**(58 - 124)**			**SW846 8330**
	85	**(58 - 124)**	**11**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)
	95	(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 #...: CB002 **Work Order #...:** EX1LX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-139 EX1LX1AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**2.43**	**ug/L**	**81**		**SW846 8330**
	3.00	**2.84**	**ug/L**	**95**	**16**	**SW846 8330**
RDX	**3.00**	**2.64**	**ug/L**	**88**		**SW846 8330**
	3.00	**3.09**	**ug/L**	**103**	**16**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.51**	**ug/L**	**84**		**SW846 8330**
	3.00	**2.95**	**ug/L**	**98**	**16**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.55**	**ug/L**	**85**		**SW846 8330**
	3.00	**2.99**	**ug/L**	**100**	**16**	**SW846 8330**
Tetryl	**3.00**	**2.33**	**ug/L**	**78**		**SW846 8330**
	3.00	**2.81**	**ug/L**	**94**	**19**	**SW846 8330**
Nitrobenzene	**3.00**	**2.32**	**ug/L**	**77**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**15**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.53**	**ug/L**	**84**		**SW846 8330**
	3.00	**2.96**	**ug/L**	**99**	**16**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.41**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.76**	**ug/L**	**92**	**14**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.46**	**ug/L**	**82**		**SW846 8330**
	3.00	**2.82**	**ug/L**	**94**	**14**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.66**	**ug/L**	**89**		**SW846 8330**
	3.00	**3.03**	**ug/L**	**101**	**13**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.59**	**ug/L**	**86**		**SW846 8330**
	3.00	**2.99**	**ug/L**	**100**	**15**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.25**	**ug/L**	**75**		**SW846 8330**
	3.00	**2.48**	**ug/L**	**83**	**9.9**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.41**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.60**	**ug/L**	**87**	**7.8**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.29**	**ug/L**	**76**		**SW846 8330**
	3.00	**2.56**	**ug/L**	**85**	**11**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)
	95	(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 #...: CB002 **Work Order #...:** EXV3E1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DN-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**0.0 NC,DI**	**(61 - 132)**			**SW846 8330**
	0.0 NC,DI	**(61 - 132)**	**0.0**	**(0-40)**	**SW846 8330**
RDX	**0.0 NC,DI**	**(30 - 191)**			**SW846 8330**
	0.0 NC,DI	**(30 - 191)**	**0.0**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**0.0 NC,DI**	**(70 - 124)**			**SW846 8330**
	0.0 NC,DI	**(70 - 124)**	**0.0**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**0.0 NC,DI**	**(72 - 130)**			**SW846 8330**
	0.0 NC,DI	**(72 - 130)**	**0.0**	**(0-42)**	**SW846 8330**
Tetryl	**0.0 NC,DI**	**(55 - 125)**			**SW846 8330**
	0.0 NC,DI	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**0.0 NC,DI**	**(59 - 136)**			**SW846 8330**
	0.0 NC,DI	**(59 - 136)**	**0.0**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**0.0 NC,DI**	**(71 - 123)**			**SW846 8330**
	0.0 NC,DI	**(71 - 123)**	**0.0**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**0.0 NC,DI**	**(66 - 124)**			**SW846 8330**
	0.0 NC,DI	**(66 - 124)**	**0.0**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**0.0 NC,DI**	**(64 - 134)**			**SW846 8330**
	0.0 NC,DI	**(64 - 134)**	**0.0**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**0.0 NC,DI**	**(66 - 136)**			**SW846 8330**
	0.0 NC,DI	**(66 - 136)**	**0.0**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**0.0 NC,DI**	**(70 - 133)**			**SW846 8330**
	0.0 NC,DI	**(70 - 133)**	**0.0**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**0.0 NC,DI**	**(54 - 136)**			**SW846 8330**
	0.0 NC,DI	**(54 - 136)**	**0.0**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**0.0 NC,DI**	**(59 - 131)**			**SW846 8330**
	0.0 NC,DI	**(59 - 131)**	**0.0**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**0.0 NC,DI**	**(58 - 133)**			**SW846 8330**
	0.0 NC,DI	**(58 - 133)**	**0.0**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)
	NC,DIL	(53 - 133)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: CB002 **Work Order #...:** EXV3E1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DN-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CB002 **Work Order #...:** EXV3E1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DN-MSD
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
RDX	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
1,3,5-Trinitrobenzene	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
1,3-Dinitrobenzene	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
Tetryl	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
Nitrobenzene	ND	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	ND	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
2,4,6-Trinitrotoluene	68	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	68	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
4-Amino-2,6-dinitrotoluene	22	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	22	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
2-Amino-4,6-dinitrotoluene	26	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	26	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					
2,6-Dinitrotoluene	4.0	3.00		ug/L	0.0		SW846 8330
		Qualifiers: NC,DIL					
	4.0	3.00		ug/L	0.0	0.0	SW846 8330
		Qualifiers: NC,DIL					

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MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: CB002 **Work Order #...:** EXV3E1DM-MS **Matrix.....:** WATER
MS Lot-Sample #: H2D130124-001 EXV3E1DN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**5.8**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
		Qualifiers:	NC,DIL				
	5.8	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
		Qualifiers:	NC,DIL				
2-Nitrotoluene	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
		Qualifiers:	NC,DIL				
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
		Qualifiers:	NC,DIL				
4-Nitrotoluene	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
		Qualifiers:	NC,DIL				
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
		Qualifiers:	NC,DIL				
3-Nitrotoluene	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
		Qualifiers:	NC,DIL				
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
		Qualifiers:	NC,DIL				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)
	NC,DIL	(53 - 133)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

TOTAL Metals

Lot-Sample #...: H2D100122-001 Matrix.....: WATER
Date Sampled...: 04/09/02 Date Received..: 04/10/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**232**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AA**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AC
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AD
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 2.5	
Barium	**93.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AE**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AF
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 0.50	
Cadmium	**1.1 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AG**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 0.50	
Calcium	**370000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AH**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 37.7	
Chromium	**24.4**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AJ**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.2	
Cobalt	**10.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AK**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 2.3	
Copper	**6.3 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AL**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.9	
Iron	**257000**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AM**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AN
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.7	
Magnesium	**165000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AP**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

TOTAL Metals

Lot-Sample #...: H2D100122-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**4660**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AQ**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.5	
Nickel	**17.7 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AR**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.9	
Potassium	**30400**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AT**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AU
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AV
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.9	
Sodium	**98100**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1AW**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWA1AX
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 4.8	
Vanadium	**7.8 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1A0**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 1.8	
Zinc	**18.5 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWA1A1**
		Dilution Factor: 1		Analysis Time..: 15:01	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXMWA1A2
		Dilution Factor: 1		Analysis Time..: 14:03	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

TOTAL Metals

Lot-Sample #...: H2D100122-002 **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**90.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1AJ**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AK
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AL
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 2.5	
Barium	**16.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1AM**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AN
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AP
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 0.50	
Calcium	**434000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1AQ**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AR
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AT
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AU
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AV
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AW
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.7	
Magnesium	**152000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1AX**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

TOTAL Metals

Lot-Sample #...: H2D100122-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**5.1 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1A0**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1A1
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.9	
Potassium	**9610**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1A2**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1A3
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1A4
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.9	
Sodium	**51900**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1A5**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 357	
Thallium	**4.8 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXMWD1A6**
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AA
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXMWD1AC
		Dilution Factor: 1		Analysis Time..: 15:06	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXMWD1AD
		Dilution Factor: 1		Analysis Time..: 14:05	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

DISSOLVED Metals

Lot-Sample #...: H2D100122-004 Matrix.....: WATER
Date Sampled...: 04/09/02 Date Received..: 04/10/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	59.0 B	200	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AA
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AC
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 7.0	
Arsenic	5.2 B	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AD
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.5	
Barium	83.6 B	200	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AE
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AF
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AG
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 0.50	
Calcium	378000	5000	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AH
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 37.7	
Chromium	1.4 B	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AJ
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AK
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AL
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Iron	189	100	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AM
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AN
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.7	
Magnesium	168000	5000	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AP
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

DISSOLVED Metals

Lot-Sample #...: H2D100122-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1460**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWH1AQ**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AR
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Potassium	**32100**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWH1AT**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AU
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AV
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.9	
Sodium	**103000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWH1AW**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1AX
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWH1A0
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 1.8	
Zinc	**3.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWH1A1**
		Dilution Factor: 1		Analysis Time..: 12:26	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXMWH1A2
		Dilution Factor: 1		Analysis Time..: 12:08	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

DISSOLVED Metals

Lot-Sample #...: H2D100122-005 **Matrix.....:** WATER
Date Sampled...: 04/09/02 **Date Received..:** 04/10/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**64.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AE**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AF
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AG
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 2.5	
Barium	**18.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AH**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AJ
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AK
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 0.50	
Calcium	**462000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AL**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AM
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AN
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AP
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AQ
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AR
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.7	
Magnesium	**157000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AT**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

DISSOLVED Metals

Lot-Sample #...: H2D100122-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**5.2 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AU**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AV
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.9	
Potassium	**10900**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1AW**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AX
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1A0
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.9	
Sodium	**57100**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXMWK1A1**
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1A2
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AA
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/15-04/16/02	EXMWK1AC
		Dilution Factor: 1		Analysis Time..: 12:30	MDL.....: 2.6	
Prep Batch #...: 2104104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXMWK1AD
		Dilution Factor: 1		Analysis Time..: 12:10	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

TOTAL Metals

Lot-Sample #...: H2D110123-001 Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	6410	200	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AA
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AC
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 7.0	
Arsenic	12.5	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AD
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 2.5	
Barium	1780	200	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AE
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.0	
Beryllium	0.66 B	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AF
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AG
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 0.50	
Calcium	180000	5000	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AH
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 37.7	
Chromium	14.8	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AJ
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.2	
Cobalt	10.1 B	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AK
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 2.3	
Copper	49.4	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AL
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.9	
Iron	17100	100	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AM
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 36.1	
Lead	7.0	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AN
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.7	
Magnesium	58900	5000	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AP
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

TOTAL Metals

Lot-Sample #...: H2D110123-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	509	15.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AQ
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.5	
Nickel	37.7 B	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AR
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.9	
Potassium	136000	50000	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AT
		Dilution Factor: 10		Analysis Time..: 16:20	MDL.....: 1580	
Selenium	5.6	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AU
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AV
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.9	
Sodium	849000	50000	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AW
		Dilution Factor: 10		Analysis Time..: 16:20	MDL.....: 3570	
Thallium	7.7 B,J	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1AX
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 4.8	
Vanadium	23.2 B	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1A0
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 1.8	
Zinc	98.7	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXPVW1A1
		Dilution Factor: 1		Analysis Time..: 15:19	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXPVW1A2
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

TOTAL Metals

Lot-Sample #...: H2D110123-002 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**177 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01AM**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AN
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AP
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 2.5	
Barium	**2680**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01AQ**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AR
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AT
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 0.50	
Calcium	**351000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01AU**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AV
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AW
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AX
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.9	
Iron	**335**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A0**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01A1
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.7	
Magnesium	**334000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A2**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

TOTAL Metals

Lot-Sample #...: H2D110123-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**23.7**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A3**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01A4
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.9	
Potassium	**89000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A5**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01A6
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01A7
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.9	
Sodium	**1150000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A8**
		Dilution Factor: 10		Analysis Time..: 16:26	MDL.....: 3570	
Thallium	**5.1 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01A9**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPV01AA
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 1.8	
Zinc	**7.1 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPV01AC**
		Dilution Factor: 1		Analysis Time..: 15:26	MDL.....: 2.6	
Prep Batch #...: 2105465						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXPV01AD
		Dilution Factor: 1		Analysis Time..: 14:09	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

TOTAL Metals

Lot-Sample #...: H2D110123-003 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**128 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1AM**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AN
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AP
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 2.5	
Barium	**27.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1AQ**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AR
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AT
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 0.50	
Calcium	**86600**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1AU**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AV
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AW
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AX
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.9	
Iron	**61.3 B**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A0**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1A1
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.7	
Magnesium	**25000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A2**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

TOTAL Metals

Lot-Sample #...: H2D110123-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**8.1 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A3**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1A4
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.9	
Potassium	**406 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A5**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1A6
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1A7
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.9	
Sodium	**16300**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A8**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 357	
Thallium	**5.9 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1A9**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWC1AA
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 1.8	
Zinc	**4.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWC1AC**
		Dilution Factor: 1		Analysis Time..: 15:30	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXPWC1AD
		Dilution Factor: 1		Analysis Time..: 14:11	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

TOTAL Metals

Lot-Sample #...: H2D110123-004 Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**1190**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AM**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1AN
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1AP
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 2.5	
Barium	**28.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AQ**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1AR
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1AT
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 0.50	
Calcium	**254000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AU**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 37.7	
Chromium	**2.4 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AV**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.2	
Cobalt	**10.3 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AW**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1AX
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.9	
Iron	**3060**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A0**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 36.1	
Lead	**2.0 B**	**3.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A1**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.7	
Magnesium	**128000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A2**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

TOTAL Metals

Lot-Sample #...: H2D110123-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**684**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A3**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.5	
Nickel	**9.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A4**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.9	
Potassium	**15500**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A5**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1A6
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1A7
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.9	
Sodium	**62600**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1A8**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWD1A9
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 4.8	
Vanadium	**2.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AA**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 1.8	
Zinc	**13.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWD1AC**
		Dilution Factor: 1		Analysis Time..: 15:35	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXPWD1AD
		Dilution Factor: 1		Analysis Time..: 14:14	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

TOTAL Metals

Lot-Sample #...: H2D110123-005 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**195 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AM**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1AN
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 7.0	
Arsenic	**6.6 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AP**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 2.5	
Barium	**368**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AQ**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1AR
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1AT
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 0.50	
Calcium	**99400**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AU**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 37.7	
Chromium	**1.3 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AV**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.2	
Cobalt	**9.2 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AW**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1AX
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.9	
Iron	**2020**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A0**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1A1
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.7	
Magnesium	**58000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A2**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

TOTAL Metals

Lot-Sample #...: H2D110123-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**228**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A3**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.5	
Nickel	**4.0 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A4**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.9	
Potassium	**28900**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A5**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1A6
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1A7
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.9	
Sodium	**100000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A8**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 357	
Thallium	**5.2 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1A9**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXPWF1AA
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 1.8	
Zinc	**6.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXPWF1AC**
		Dilution Factor: 1		Analysis Time..: 15:39	MDL.....: 2.6	
Prep Batch #...: 2105465						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXPWF1AD
		Dilution Factor: 1		Analysis Time..: 14:16	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

DISSOLVED Metals

Lot-Sample #...: H2D110123-008 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**56.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AA**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AC
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AD
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 2.5	
Barium	**1750**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AE**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AF
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AG
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 0.50	
Calcium	**156000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AH**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AJ
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AK
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 2.3	
Copper	**3.2 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AL**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AM
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AN
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.7	
Magnesium	**67000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AP**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

DISSOLVED Metals

Lot-Sample #...: H2D110123-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	15.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AQ
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AR
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.9	
Potassium	**137000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AT**
		Dilution Factor: 10		Analysis Time..: 13:37	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AU
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AV
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.9	
Sodium	**1120000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1AW**
		Dilution Factor: 10		Analysis Time..: 13:37	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1AX
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 4.8	
Vanadium	**6.3 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXC1A0**
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXC1A1
		Dilution Factor: 1		Analysis Time..: 12:34	MDL.....: 2.6	
Prep Batch #...: 2104104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXPXC1A2
		Dilution Factor: 1		Analysis Time..: 12:16	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

DISSOLVED Metals

Lot-Sample #...: H2D110123-009 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**86.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AE**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AF
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 7.0	
Arsenic	**2.5 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AG**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 2.5	
Barium	**2680**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AH**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AJ
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AK
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 0.50	
Calcium	**364000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AL**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AM
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AN
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AP
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AQ
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AR
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.7	
Magnesium	**347000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AT**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

DISSOLVED Metals

Lot-Sample #...: H2D110123-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**18.0**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AU**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AV
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.9	
Potassium	**95000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AW**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AX
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1A0
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.9	
Sodium	**1210000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1A1**
		Dilution Factor: 10		Analysis Time..: 13:42	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1A2
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXF1AA
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 1.8	
Zinc	**9.5 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXF1AC**
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXPXF1AD
		Dilution Factor: 1		Analysis Time..: 12:18	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

DISSOLVED Metals

Lot-Sample #...: H2D110123-010 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**57.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AE**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AF
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AG
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 2.5	
Barium	**31.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AH**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AJ
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AK
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 0.50	
Calcium	**117000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AL**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AM
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AN
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AP
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AQ
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AR
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.7	
Magnesium	**36400**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AT**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

DISSOLVED Metals

Lot-Sample #...: H2D110123-010 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**6.7 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AU**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AV
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.9	
Potassium	**1000 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AW**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AX
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1A0
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.9	
Sodium	**24400**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1A1**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1A2
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXH1AA
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 1.8	
Zinc	**18.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXH1AC**
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXPXH1AD
		Dilution Factor: 1		Analysis Time..: 12:20	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

DISSOLVED Metals

Lot-Sample #...: H2D110123-011 Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**59.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AE**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AF
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AG
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 2.5	
Barium	**14.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AH**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AJ
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AK
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 0.50	
Calcium	**262000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AL**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AM
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.2	
Cobalt	**3.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AN**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AP
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AQ
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AR
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.7	
Magnesium	**127000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AT**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

DISSOLVED Metals

Lot-Sample #...: H2D110123-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**448**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AU**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.5	
Nickel	**6.6 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AV**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.9	
Potassium	**15200**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AW**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AX
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1A0
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.9	
Sodium	**63300**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1A1**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1A2
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXJ1AA
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 1.8	
Zinc	**7.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXJ1AC**
		Dilution Factor: 1		Analysis Time..: 12:48	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXPXJ1AD
		Dilution Factor: 1		Analysis Time..: 12:22	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

DISSOLVED Metals

Lot-Sample #...: H2D110123-012 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**42.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AE**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AF
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 7.0	
Arsenic	**9.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AG**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 2.5	
Barium	**336**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AH**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AJ
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AK
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 0.50	
Calcium	**89900**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AL**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AM
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.2	
Cobalt	**3.4 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AN**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AP
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.9	
Iron	**124**	**100**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AQ**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AR
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.7	
Magnesium	**57100**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AT**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

DISSOLVED Metals

Lot-Sample #...: H2D110123-012 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**207**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AU**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AV
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.9	
Potassium	**29600**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AW**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AX
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1A0
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.9	
Sodium	**103000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1A1**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1A2
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXPXK1AA
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 1.8	
Zinc	**5.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXPXK1AC**
		Dilution Factor: 1		Analysis Time..: 12:52	MDL.....: 2.6	
Prep Batch #...: 2104104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXPXK1AD
		Dilution Factor: 1		Analysis Time..: 12:24	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

TOTAL Metals

Lot-Sample #...: H2D120107-001 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**97.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AA**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AC
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 7.0	
Arsenic	**4.5 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AD**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 2.5	
Barium	**1090**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AE**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AF
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AG
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 0.50	
Calcium	**268000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AH**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AJ
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AK
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AL
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AM
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AN
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.7	
Magnesium	**250000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AP**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

TOTAL Metals

Lot-Sample #...: H2D120107-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**8.4 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AQ**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AR
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.9	
Potassium	**67200**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AT**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AU
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81AV
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.9	
Sodium	**583000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AW**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 357	
Thallium	**6.7 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81AX**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRV81A0
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 1.8	
Zinc	**5.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRV81A1**
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXRV81A2
		Dilution Factor: 1		Analysis Time..: 14:18	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

TOTAL Metals

Lot-Sample #...: H2D120107-002 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**104 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1AJ**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AK
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AL
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 2.5	
Barium	**80.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1AM**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AN
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AP
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.50	
Calcium	**104000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1AQ**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AR
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AT
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AU
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.9	
Iron	**118**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1AV**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AW
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.7	
Magnesium	**69300**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1AX**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

TOTAL Metals

Lot-Sample #...: H2D120107-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**20.7**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1A0**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1A1
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.9	
Potassium	**40400**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1A2**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1A3
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1A4
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.9	
Sodium	**237000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1A5**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 357	
Thallium	**6.9 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWA1A6**
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AA
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWA1AC
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXRWA1AD
		Dilution Factor: 1		Analysis Time..: 14:19	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

TOTAL Metals

Lot-Sample #...: H2D120107-003 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**104 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1AJ**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AK
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AL
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 2.5	
Barium	**77.7 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1AM**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AN
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AP
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 0.50	
Calcium	**101000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1AQ**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AR
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AT
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AU
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.9	
Iron	**91.8 B**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1AV**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AW
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.7	
Magnesium	**67200**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1AX**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

TOTAL Metals

Lot-Sample #...: H2D120107-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**20.0**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1A0**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1A1
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.9	
Potassium	**39300**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1A2**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1A3
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1A4
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.9	
Sodium	**231000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWF1A5**
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1A6
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AA
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWF1AC
		Dilution Factor: 1		Analysis Time..: 15:53	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXRWF1AD
		Dilution Factor: 1		Analysis Time..: 14:26	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

TOTAL Metals

Lot-Sample #...: H2D120107-004 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**85.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1AJ**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AK
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AL
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 2.5	
Barium	**19.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1AM**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AN
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AP
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 0.50	
Calcium	**318000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1AQ**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AR
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AT
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AU
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AV
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AW
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.7	
Magnesium	**31700**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1AX**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

TOTAL Metals

Lot-Sample #...: H2D120107-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	17.0	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1A0**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.5	
Nickel	3.2 B	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1A1**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.9	
Potassium	**4420 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1A2**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1A3
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1A4
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.9	
Sodium	**30100**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1A5**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 357	
Thallium	**5.9 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXRWM1A6**
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AA
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXRWM1AC
		Dilution Factor: 1		Analysis Time..: 15:57	MDL.....: 2.6	
Prep Batch #...: 2105465						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXRWM1AD
		Dilution Factor: 1		Analysis Time..: 14:28	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

DISSOLVED Metals

Lot-Sample #...: H2D120107-006 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**53.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AA**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AC
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 7.0	
Arsenic	**4.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AD**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 2.5	
Barium	**1070**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AE**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AF
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AG
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 0.50	
Calcium	**273000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AH**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AJ
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AK
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AL
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AM
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AN
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.7	
Magnesium	**243000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AP**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

DISSOLVED Metals

Lot-Sample #...: H2D120107-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**10.2 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AQ**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AR
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.9	
Potassium	**66900**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AT**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AU
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AV
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.9	
Sodium	**582000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1AW**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1AX
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWR1A0
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 1.8	
Zinc	**10 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWR1A1**
		Dilution Factor: 1		Analysis Time..: 12:57	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXRWR1A2
		Dilution Factor: 1		Analysis Time..: 12:25	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

DISSOLVED Metals

Lot-Sample #...: H2D120107-007 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**49.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AE**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AF
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AG
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 2.5	
Barium	**78.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AH**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AJ
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AK
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 0.50	
Calcium	**104000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AL**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AM
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AN
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AP
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AQ
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AR
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.7	
Magnesium	**67100**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AT**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

DISSOLVED Metals

Lot-Sample #...: H2D120107-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**17.0**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AU**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AV
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.9	
Potassium	**40000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1AW**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AX
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1A0
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.9	
Sodium	**237000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWV1A1**
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1A2
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AA
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWV1AC
		Dilution Factor: 1		Analysis Time..: 13:01	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXRWV1AD
		Dilution Factor: 1		Analysis Time..: 12:27	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

DISSOLVED Metals

Lot-Sample #...: H2D120107-008 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**61.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AH**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AJ
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AK
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 2.5	
Barium	**78.5 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AL**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AM
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AN
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 0.50	
Calcium	**105000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AP**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AQ
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AR
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AT
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AU
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AV
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.7	
Magnesium	**67900**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AW**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3034

DISSOLVED Metals

Lot-Sample #...: H2D120107-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**17.2**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AX**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1A0
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.9	
Potassium	**40700**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1A1**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1A2
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AA
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.9	
Sodium	**241000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRWX1AC**
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AD
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AE
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/15-04/16/02	EXRWX1AF
		Dilution Factor: 1		Analysis Time..: 13:19	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXRWX1AG
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

DISSOLVED Metals

Lot-Sample #...: H2D120107-009 **Matrix.....:** WATER
Date Sampled...: 04/11/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**61.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AL**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AM
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AN
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 2.5	
Barium	**18.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AP**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AQ
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AR
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 0.50	
Calcium	**330000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AT**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AU
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AV
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AW
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AX
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51A0
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.7	
Magnesium	**32000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51A1**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

DISSOLVED Metals

Lot-Sample #...: H2D120107-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**6.8 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51A2**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AA
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.9	
Potassium	**4700 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AC**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AD
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AE
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.9	
Sodium	**31700**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AF**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 357	
Thallium	**6.2 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AG**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXRW51AH
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 1.8	
Zinc	**365**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXRW51AJ**
		Dilution Factor: 1		Analysis Time..: 13:24	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXRW51AK
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

TOTAL Metals

Lot-Sample #...: H2D130124-001 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**4600**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1AA**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1AE
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1AH
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 2.5	
Barium	**14.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1AL**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.0	
Beryllium	**2.4 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1AP**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1AT
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 0.50	
Calcium	**79400**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1AW**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1A1
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.2	
Cobalt	**95.7**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1A4**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1A7
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.9	
Iron	**11800**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1CA**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1CE
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.7	
Magnesium	**23000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1CH**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

TOTAL Metals

Lot-Sample #...: H2D130124-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1350**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1CL**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.5	
Nickel	**208**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1CP**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.9	
Potassium	**1470 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1CT**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1CW
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1C1
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.9	
Sodium	**3240 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1C4**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 357	
Thallium	**8.6 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1C7**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV3E1DA
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 1.8	
Zinc	**194**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV3E1DE**
		Dilution Factor: 1		Analysis Time..: 14:07	MDL.....: 2.6	
Prep Batch #...: 2105465						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXV3E1DH
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

DISSOLVED Metals

Lot-Sample #...: H2D130124-002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**4680**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1AA**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1AE
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1AH
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 2.5	
Barium	**14.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1AL**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.0	
Beryllium	**2.0 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1AP**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1AT
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 0.50	
Calcium	**78200**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1AW**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1A1
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.2	
Cobalt	**95.5**	**50.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1A4**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1A7
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.9	
Iron	**11500**	**100**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1CA**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1CE
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.7	
Magnesium	**22200**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1CH**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

DISSOLVED Metals

Lot-Sample #...: H2D130124-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1330**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1CL**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.5	
Nickel	**214**	**40.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1CP**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.9	
Potassium	**1460 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1CT**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1CW
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1C1
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.9	
Sodium	**3260 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1C4**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1C7
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4P1DA
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 1.8	
Zinc	**200**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4P1DE**
		Dilution Factor: 1		Analysis Time..: 11:40	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXV4P1DH
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

TOTAL Metals

Lot-Sample #...: H2D130124-003 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**129 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AA**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AC
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AD
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 2.5	
Barium	**388**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AE**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AF
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AG
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 0.50	
Calcium	**305000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AH**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AJ
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AK
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AL
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.9	
Iron	**376**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AM**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AN
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.7	
Magnesium	**236000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AP**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

TOTAL Metals

Lot-Sample #...: H2D130124-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**388**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AQ**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AR
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.9	
Potassium	**92000**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AT**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AU
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1AV
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.9	
Sodium	**1210000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AW**
		Dilution Factor: 10		Analysis Time..: 16:11	MDL.....: 3570	
Thallium	**8.7 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1AX**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV4Q1A0
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 1.8	
Zinc	12.9 B	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV4Q1A1**
		Dilution Factor: 1		Analysis Time..: 14:34	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXV4Q1A2
		Dilution Factor: 1		Analysis Time..: 13:46	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

DISSOLVED Metals

Lot-Sample #...: H2D130124-004 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**51.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AA**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AC
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AD
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 2.5	
Barium	**398**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AE**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AF
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AG
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 0.50	
Calcium	**316000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AH**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AJ
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AK
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AL
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AM
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AN
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.7	
Magnesium	**239000**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AP**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

DISSOLVED Metals

Lot-Sample #...: H2D130124-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**380**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AQ**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AR
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.9	
Potassium	**96300**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AT**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AU
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AV
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.9	
Sodium	**1280000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1AW**
		Dilution Factor: 10		Analysis Time..: 13:28	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1AX
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV4T1A0
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 1.8	
Zinc	**2.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV4T1A1**
		Dilution Factor: 1		Analysis Time..: 11:57	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXV4T1A2
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

TOTAL Metals

Lot-Sample #...: H2D130124-005 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**104 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AA**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AC
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AD
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 2.5	
Barium	**106 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AE**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AF
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AG
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 0.50	
Calcium	**859000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AH**
		Dilution Factor: 10		Analysis Time..: 16:15	MDL.....: 377	
Chromium	**6.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AJ**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AK
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AL
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.9	
Iron	**5640**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AM**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AN
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.7	
Magnesium	**591000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AP**
		Dilution Factor: 10		Analysis Time..: 16:15	MDL.....: 218	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

TOTAL Metals

Lot-Sample #...: H2D130124-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**219**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AQ**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.5	
Nickel	**7.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AR**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.9	
Potassium	**96000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AT**
		Dilution Factor: 10		Analysis Time..: 16:15	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AU
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AV
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.9	
Sodium	**1810000**	**50000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401AW**
		Dilution Factor: 10		Analysis Time..: 16:15	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401AX
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV401A0
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 1.8	
Zinc	**3.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV401A1**
		Dilution Factor: 1		Analysis Time..: 14:39	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXV401A2
		Dilution Factor: 1		Analysis Time..: 13:48	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

DISSOLVED Metals

Lot-Sample #...: H2D130124-006 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**38.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AA**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AC
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AD
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 2.5	
Barium	**104 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AE**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AF
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AG
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 0.50	
Calcium	**857000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AH**
		Dilution Factor: 10		Analysis Time..: 13:33	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AJ
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AK
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AL
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.9	
Iron	**4450**	**100**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AM**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AN
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.7	
Magnesium	**575000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AP**
		Dilution Factor: 10		Analysis Time..: 13:33	MDL.....: 218	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

DISSOLVED Metals

Lot-Sample #...: H2D130124-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**212**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AQ**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.5	
Nickel	**4.8 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AR**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.9	
Potassium	**91900**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AT**
		Dilution Factor: 10		Analysis Time..: 13:33	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AU
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AV
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.9	
Sodium	**1810000**	**50000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421AW**
		Dilution Factor: 10		Analysis Time..: 13:33	MDL.....: 3570	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421AX
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV421A0
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 1.8	
Zinc	**8.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV421A1**
		Dilution Factor: 1		Analysis Time..: 12:02	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXV421A2
		Dilution Factor: 1		Analysis Time..: 12:04	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

TOTAL Metals

Lot-Sample #...: H2D130124-007 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**4490**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AA**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AC
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AD
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 2.5	
Barium	**14.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AE**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.0	
Beryllium	**2.4 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AF**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AG
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 0.50	
Calcium	**77500**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AH**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AJ
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.2	
Cobalt	**93.9**	**50.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AK**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AL
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.9	
Iron	**11600**	**100**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AM**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AN
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.7	
Magnesium	**22600**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AP**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

TOTAL Metals

Lot-Sample #...: H2D130124-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1320**	**15.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AQ**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.5	
Nickel	**209**	**40.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AR**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.9	
Potassium	**1430 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AT**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AU
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431AV
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.9	
Sodium	**3500 B**	**5000**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AW**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 357	
Thallium	**5.2 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431AX**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV431A0
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 1.8	
Zinc	**191**	**20.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV431A1**
		Dilution Factor: 1		Analysis Time..: 14:43	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXV431A2
		Dilution Factor: 1		Analysis Time..: 13:50	MDL.....: 0.000060	

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

DISSOLVED Metals

Lot-Sample #...: H2D130124-008 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2104103						
Aluminum	**4740**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AA**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AC
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 7.0	
Arsenic	**3.7 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AD**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 2.5	
Barium	**15.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AE**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.0	
Beryllium	**2.1 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AF**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AG
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 0.50	
Calcium	**82400**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AH**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AJ
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.2	
Cobalt	**98.7**	**50.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AK**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AL
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.9	
Iron	**12300**	**100**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AM**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AN
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.7	
Magnesium	**23500**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AP**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3046

DISSOLVED Metals

Lot-Sample #...: H2D130124-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1400**	**15.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AQ**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.5	
Nickel	**221**	**40.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AR**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.9	
Potassium	**1540 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AT**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AU
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AV
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.9	
Sodium	**3650 B**	**5000**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451AW**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451AX
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXV451A0
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 1.8	
Zinc	**214**	**20.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXV451A1**
		Dilution Factor: 1		Analysis Time..: 12:21	MDL.....: 2.6	

Prep Batch #...: 2104104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXV451A2
		Dilution Factor: 1		Analysis Time..: 12:06	MDL.....: 0.000060	

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

TOTAL Metals

Lot-Sample #...: H2D130124-009 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2105459						
Aluminum	**67.1 B**	**200**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV461AA**
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AC
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AD
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 2.5	
Barium	ND	200	ug/L	SW846 6010B	04/16-04/17/02	EXV461AE
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AF
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AG
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 0.50	
Calcium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXV461AH
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AJ
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AK
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AL
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	04/16-04/17/02	EXV461AM
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AN
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.7	
Magnesium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXV461AP
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 21.8	

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB5001

TOTAL Metals

Lot-Sample #...: H2D130124-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	15.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AQ
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AR
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.9	
Potassium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXV461AT
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AU
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461AV
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.9	
Sodium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXV461AW
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 357	
Thallium	**7.2 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXV461AX**
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461A0
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXV461A1
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 2.6	

Prep Batch #...: 2105465

Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXV461A2
		Dilution Factor: 1		Analysis Time..: 13:53	MDL.....: 0.000060	

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

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D140000-103 **Prep Batch #...:** 2104103						
Aluminum	ND	200	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AA
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Antimony	ND	60.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AC
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AD
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Barium	ND	200	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AE
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AF
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AG
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Calcium	ND	5000	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AH
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Chromium	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AK
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Copper	ND	25.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AL
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Iron	ND	100	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AM
		Dilution Factor: 1				
		Analysis Time..: 11:22				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AN
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Magnesium	ND	5000	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AP
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Manganese	ND	15.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Nickel	ND	40.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AR
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Potassium	ND	5000	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AT
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Selenium	ND	5.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AU
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Silver	ND	10.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AV
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Sodium	ND	5000	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1AW
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Thallium	**7.7 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/15-04/16/02**	**EXWHH1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1A0
		Dilution Factor: 1				
		Analysis Time..: 11:22				
Zinc	ND	20.0	ug/L	SW846 6010B	04/15-04/16/02	EXWHH1A1
		Dilution Factor: 1				
		Analysis Time..: 11:22				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D140000-104 **Prep Batch #...:** 2104104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/15/02	EXWHK1AA
		Dilution Factor: 1				
		Analysis Time..: 11:53				

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 #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D140000-103 **Prep Batch #...:** 2104103					
Aluminum	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A2
Antimony	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A3
Arsenic	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A4
Barium	97	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A5
Beryllium	102	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A6
Cadmium	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A7
Calcium	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A8
Chromium	99	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1A9
Cobalt	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1CA
Copper	97	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:26	04/15-04/16/02	EXWHH1CC

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	99	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CD
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Lead	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CE
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Magnesium	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CF
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Manganese	101	(90 - 111)	SW846 6010B	04/15-04/16/02	EXWHH1CG
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Nickel	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CH
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Potassium	100	(89 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CJ
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Selenium	102	(90 - 114)	SW846 6010B	04/15-04/16/02	EXWHH1CK
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Silver	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CL
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Sodium	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CM
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Thallium	99	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CN
		Dilution Factor: 1			
		Analysis Time..: 11:26			
Vanadium	98	(90 - 110)	SW846 6010B	04/15-04/16/02	EXWHH1CP
		Dilution Factor: 1			
		Analysis Time..: 11:26			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	104	(90 - 115)	SW846 6010B	04/15-04/16/02	EXWHH1CQ
		Dilution Factor: 1			
		Analysis Time..: 11:26			

LCS Lot-Sample#: H2D140000-104 **Prep Batch #...:** 2104104

Mercury	100	(90 - 110)	SW846 7470A	04/15/02	EXWHK1AC
		Dilution Factor: 1			
		Analysis Time..: 11:55			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D140000-103 **Prep Batch #...:** 2104103							
Aluminum	2000	2010	ug/L	101	SW846 6010B	04/15-04/16/02	EXWHH1A2
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Antimony	500	488	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1A3
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Arsenic	2000	1960	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1A4
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Barium	2000	1940	ug/L	97	SW846 6010B	04/15-04/16/02	EXWHH1A5
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Beryllium	50.0	51.0	ug/L	102	SW846 6010B	04/15-04/16/02	EXWHH1A6
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Cadmium	50.0	49.5	ug/L	99	SW846 6010B	04/15-04/16/02	EXWHH1A7
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Calcium	50000	49500	ug/L	99	SW846 6010B	04/15-04/16/02	EXWHH1A8
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Chromium	200	199	ug/L	99	SW846 6010B	04/15-04/16/02	EXWHH1A9
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Cobalt	500	499	ug/L	100	SW846 6010B	04/15-04/16/02	EXWHH1CA
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Copper	250	243	ug/L	97	SW846 6010B	04/15-04/16/02	EXWHH1CC
			Dilution Factor: 1				
			Analysis Time..: 11:26				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	989	ug/L	99	SW846 6010B	04/15-04/16/02	EXWHH1CD
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Lead	500	492	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CE
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Magnesium	50000	48800	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CF
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Manganese	500	506	ug/L	101	SW846 6010B	04/15-04/16/02	EXWHH1CG
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Nickel	500	490	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CH
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Potassium	50000	49800	ug/L	100	SW846 6010B	04/15-04/16/02	EXWHH1CJ
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Selenium	2000	2030	ug/L	102	SW846 6010B	04/15-04/16/02	EXWHH1CK
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Silver	50.0	49.2	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CL
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Sodium	50000	48900	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CM
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Thallium	2000	1970	ug/L	99	SW846 6010B	04/15-04/16/02	EXWHH1CN
			Dilution Factor: 1				
			Analysis Time..: 11:26				
Vanadium	500	492	ug/L	98	SW846 6010B	04/15-04/16/02	EXWHH1CP
			Dilution Factor: 1				
			Analysis Time..: 11:26				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	522	ug/L	104	SW846 6010B	04/15-04/16/02	EXWHH1CQ
			Dilution Factor: 1				
			Analysis Time..: 11:26				

LCS Lot-Sample#: H2D140000-104 **Prep Batch #...:** 2104104

Mercury	0.00500	0.00500	mg/L	100	SW846 7470A	04/15/02	EXWHK1AC
			Dilution Factor: 1				
			Analysis Time..: 11:55				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D130124-002 **Prep Batch #...:** 2104103							
Aluminum	105	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AC
	117	(75 - 125)	3.4	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AD
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Antimony	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AF
	101	(75 - 125)	1.6	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AG
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Arsenic	101	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AJ
	103	(75 - 125)	2.0	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AK
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Barium	99	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AM
	101	(75 - 125)	1.9	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AN
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Beryllium	104	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AQ
	106	(75 - 125)	1.8	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AR
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Cadmium	99	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AU
	101	(75 - 125)	2.0	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1AV
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Calcium	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1AX
	109	(75 - 125)	3.2	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1A0
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Chromium	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1A2
	102	(75 - 125)	2.0	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1A3
		Dilution Factor: 1					
		Analysis Time..: 11:44					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1A5
	104	(75 - 125)	2.2	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1A6
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Copper	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1A8
	102	(75 - 125)	2.1	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1A9
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Iron	90	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CC
	138 N	(75 - 125)	3.8	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CD
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Lead	99	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CF
	101	(75 - 125)	1.6	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CG
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Magnesium	101	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CJ
	105	(75 - 125)	2.7	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CK
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Manganese	101	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CM
	113	(75 - 125)	3.3	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CN
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Nickel	98	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CQ
	101	(75 - 125)	2.6	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CR
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Potassium	107	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CU
	110	(75 - 125)	2.1	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1CV
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Selenium	103	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1CX
	104	(75 - 125)	1.7	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1C0
		Dilution Factor: 1					
		Analysis Time..: 11:44					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	99	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1C2
	101	(75 - 125)	1.8	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1C3
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Sodium	101	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1C5
	103	(75 - 125)	2.0	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1C6
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Thallium	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1C8
	102	(75 - 125)	2.1	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1C9
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Vanadium	100	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1DC
	102	(75 - 125)	1.9	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1DD
		Dilution Factor: 1					
		Analysis Time..: 11:44					
Zinc	105	(75 - 125)			SW846 6010B	04/15-04/16/02	EXV4P1DF
	108	(75 - 125)	2.4	(0-20)	SW846 6010B	04/15-04/16/02	EXV4P1DG
		Dilution Factor: 1					
		Analysis Time..: 11:44					

MS Lot-Sample #: H2D130124-002 **Prep Batch #...:** 2104104

Mercury	97	(73 - 125)			SW846 7470A	04/15/02	EXV4P1DJ
	97	(73 - 125)	0.61	(0-20)	SW846 7470A	04/15/02	EXV4P1DK
		Dilution Factor: 1					
		Analysis Time..: 11:59					

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 DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

MS Lot-Sample #: H2D130124-002 **Prep Batch #...:** 2104103

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	4680	2000	6780	ug/L	105		SW846 6010B	04/15-04/16/02	EXV4P1AC
	4680	2000	7010	ug/L	117	3.4	SW846 6010B	04/15-04/16/02	EXV4P1AD
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Antimony									
	ND	500	498	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1AF
	ND	500	506	ug/L	101	1.6	SW846 6010B	04/15-04/16/02	EXV4P1AG
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Arsenic									
	ND	2000	2020	ug/L	101		SW846 6010B	04/15-04/16/02	EXV4P1AJ
	ND	2000	2060	ug/L	103	2.0	SW846 6010B	04/15-04/16/02	EXV4P1AK
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Barium									
	14.1	2000	1990	ug/L	99		SW846 6010B	04/15-04/16/02	EXV4P1AM
	14.1	2000	2030	ug/L	101	1.9	SW846 6010B	04/15-04/16/02	EXV4P1AN
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Beryllium									
	2.0	50.0	54.0	ug/L	104		SW846 6010B	04/15-04/16/02	EXV4P1AQ
	2.0	50.0	55.0	ug/L	106	1.8	SW846 6010B	04/15-04/16/02	EXV4P1AR
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Cadmium									
	ND	50.0	49.5	ug/L	99		SW846 6010B	04/15-04/16/02	EXV4P1AU
	ND	50.0	50.6	ug/L	101	2.0	SW846 6010B	04/15-04/16/02	EXV4P1AV
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Calcium									
	78200	50000	128000	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1AX
	78200	50000	132000	ug/L	109	3.2	SW846 6010B	04/15-04/16/02	EXV4P1A0
			Dilution Factor: 1						
			Analysis Time..: 11:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	200	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1A2
	ND	200	204	ug/L	102	2.0	SW846 6010B	04/15-04/16/02	EXV4P1A3
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Cobalt									
	95.5	500	600	ug/L	101		SW846 6010B	04/15-04/16/02	EXV4P1A5
	95.5	500	614	ug/L	104	2.2	SW846 6010B	04/15-04/16/02	EXV4P1A6
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Copper									
	ND	250	251	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1A8
	ND	250	256	ug/L	102	2.1	SW846 6010B	04/15-04/16/02	EXV4P1A9
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Iron									
	11500	1000	12400	ug/L	90		SW846 6010B	04/15-04/16/02	EXV4P1CC
	11500	1000	12900 N	ug/L	138	3.8	SW846 6010B	04/15-04/16/02	EXV4P1CD
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Lead									
	ND	500	495	ug/L	99		SW846 6010B	04/15-04/16/02	EXV4P1CF
	ND	500	504	ug/L	101	1.6	SW846 6010B	04/15-04/16/02	EXV4P1CG
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Magnesium									
	22200	50000	72600	ug/L	101		SW846 6010B	04/15-04/16/02	EXV4P1CJ
	22200	50000	74600	ug/L	105	2.7	SW846 6010B	04/15-04/16/02	EXV4P1CK
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Manganese									
	1330	500	1830	ug/L	101		SW846 6010B	04/15-04/16/02	EXV4P1CM
	1330	500	1900	ug/L	113	3.3	SW846 6010B	04/15-04/16/02	EXV4P1CN
			Dilution Factor: 1						
			Analysis Time..: 11:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	214	500	702	ug/L	98		SW846 6010B	04/15-04/16/02	EXV4P1CQ
	214	500	720	ug/L	101	2.6	SW846 6010B	04/15-04/16/02	EXV4P1CR
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Potassium									
	1460	50000	55100	ug/L	107		SW846 6010B	04/15-04/16/02	EXV4P1CU
	1460	50000	56300	ug/L	110	2.1	SW846 6010B	04/15-04/16/02	EXV4P1CV
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Selenium									
	ND	2000	2050	ug/L	103		SW846 6010B	04/15-04/16/02	EXV4P1CX
	ND	2000	2090	ug/L	104	1.7	SW846 6010B	04/15-04/16/02	EXV4P1C0
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Silver									
	ND	50.0	49.5	ug/L	99		SW846 6010B	04/15-04/16/02	EXV4P1C2
	ND	50.0	50.4	ug/L	101	1.8	SW846 6010B	04/15-04/16/02	EXV4P1C3
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Sodium									
	3260	50000	53700	ug/L	101		SW846 6010B	04/15-04/16/02	EXV4P1C5
	3260	50000	54800	ug/L	103	2.0	SW846 6010B	04/15-04/16/02	EXV4P1C6
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Thallium									
	ND	2000	2000	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1C8
	ND	2000	2040	ug/L	102	2.1	SW846 6010B	04/15-04/16/02	EXV4P1C9
			Dilution Factor: 1						
			Analysis Time..: 11:44						
Vanadium									
	ND	500	498	ug/L	100		SW846 6010B	04/15-04/16/02	EXV4P1DC
	ND	500	508	ug/L	102	1.9	SW846 6010B	04/15-04/16/02	EXV4P1DD
			Dilution Factor: 1						
			Analysis Time..: 11:44						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	200	500	723	ug/L	105		SW846 6010B	04/15-04/16/02	EXV4P1DF
	200	500	740	ug/L	108	2.4	SW846 6010B	04/15-04/16/02	EXV4P1DG

Dilution Factor: 1
Analysis Time..: 11:44

MS Lot-Sample #: H2D130124-002 **Prep Batch #...:** 2104104

Mercury									
	ND	0.00100	0.00097	mg/L	97		SW846 7470A	04/15/02	EXV4P1DJ
			Qualifiers:						
	ND	0.00100	0.00096	mg/L	97	0.61	SW846 7470A	04/15/02	EXV4P1DK
			Qualifiers:						

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

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D150000-459 **Prep Batch #...:** 2105459						
Aluminum	ND	200	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AA
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Antimony	ND	60.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AC
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AD
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Barium	ND	200	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AE
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AF
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AG
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Calcium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AH
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Chromium	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AJ
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AK
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Copper	ND	25.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AL
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Iron	ND	100	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AM
		Dilution Factor: 1				
		Analysis Time..: 13:58				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AN
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Magnesium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AP
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Manganese	ND	15.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AQ
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Nickel	ND	40.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AR
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Potassium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AT
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Selenium	ND	5.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AU
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Silver	ND	10.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AV
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Sodium	ND	5000	ug/L	SW846 6010B	04/16-04/17/02	EXXG71AW
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Thallium	**6.7 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/16-04/17/02**	**EXXG71AX**
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71A0
		Dilution Factor: 1				
		Analysis Time..: 13:58				
Zinc	ND	20.0	ug/L	SW846 6010B	04/16-04/17/02	EXXG71A1
		Dilution Factor: 1				
		Analysis Time..: 13:58				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D150000-465 **Prep Batch #...:** 2105465						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/16/02	EXXHM1AA
		Dilution Factor: 1				
		Analysis Time..: 13:37				

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 #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D150000-459 **Prep Batch #...:** 2105459					
Aluminum	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A2
Antimony	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A3
Arsenic	97	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A4
Barium	94	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A5
Beryllium	100	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A6
Cadmium	94	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A7
Calcium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A8
Chromium	96	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71A9
Cobalt	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CA
Copper	96	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CC

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	94	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CD
Lead	95	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CE
Magnesium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CF
Manganese	98	(90 - 111)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CG
Nickel	92	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CH
Potassium	100	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CJ
Selenium	99	(90 - 114)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CK
Silver	96	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CL
Sodium	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CM
Thallium	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CN
Vanadium	96	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 14:03	04/16-04/17/02	EXXG71CP

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	102	(90 - 115)	SW846 6010B	04/16-04/17/02	EXXG71CQ
		Dilution Factor: 1			
		Analysis Time..: 14:03			

LCS Lot-Sample#: H2D150000-465 **Prep Batch #...:** 2105465

Mercury	106	(90 - 110)	SW846 7470A	04/16/02	EXXHM1AC
		Dilution Factor: 1			
		Analysis Time..: 13:39			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D150000-459 **Prep Batch #...:** 2105459							
Aluminum	2000	2020	ug/L	101	SW846 6010B	04/16-04/17/02	EXXG71A2
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Antimony	500	488	ug/L	98	SW846 6010B	04/16-04/17/02	EXXG71A3
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Arsenic	2000	1940	ug/L	97	SW846 6010B	04/16-04/17/02	EXXG71A4
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Barium	2000	1880	ug/L	94	SW846 6010B	04/16-04/17/02	EXXG71A5
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Beryllium	50.0	49.9	ug/L	100	SW846 6010B	04/16-04/17/02	EXXG71A6
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Cadmium	50.0	47.2	ug/L	94	SW846 6010B	04/16-04/17/02	EXXG71A7
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Calcium	50000	49900	ug/L	100	SW846 6010B	04/16-04/17/02	EXXG71A8
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Chromium	200	191	ug/L	96	SW846 6010B	04/16-04/17/02	EXXG71A9
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Cobalt	500	488	ug/L	98	SW846 6010B	04/16-04/17/02	EXXG71CA
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Copper	250	239	ug/L	96	SW846 6010B	04/16-04/17/02	EXXG71CC
			Dilution Factor: 1				
			Analysis Time..: 14:03				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	940	ug/L	94	SW846 6010B	04/16-04/17/02	EXXG71CD
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Lead	500	475	ug/L	95	SW846 6010B	04/16-04/17/02	EXXG71CE
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Magnesium	50000	50100	ug/L	100	SW846 6010B	04/16-04/17/02	EXXG71CF
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Manganese	500	492	ug/L	98	SW846 6010B	04/16-04/17/02	EXXG71CG
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Nickel	500	462	ug/L	92	SW846 6010B	04/16-04/17/02	EXXG71CH
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Potassium	50000	50100	ug/L	100	SW846 6010B	04/16-04/17/02	EXXG71CJ
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Selenium	2000	1980	ug/L	99	SW846 6010B	04/16-04/17/02	EXXG71CK
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Silver	50.0	47.9	ug/L	96	SW846 6010B	04/16-04/17/02	EXXG71CL
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Sodium	50000	49200	ug/L	98	SW846 6010B	04/16-04/17/02	EXXG71CM
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Thallium	2000	1950	ug/L	98	SW846 6010B	04/16-04/17/02	EXXG71CN
			Dilution Factor: 1				
			Analysis Time..: 14:03				
Vanadium	500	480	ug/L	96	SW846 6010B	04/16-04/17/02	EXXG71CP
			Dilution Factor: 1				
			Analysis Time..: 14:03				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	508	ug/L	102	SW846 6010B	04/16-04/17/02	EXXG71CQ
			Dilution Factor: 1				
			Analysis Time..: 14:03				

LCS Lot-Sample#: H2D150000-465 **Prep Batch #...:** 2105465

Mercury	0.00500	0.00530	mg/L	106	SW846 7470A	04/16/02	EXXHM1AC
			Dilution Factor: 1				
			Analysis Time..: 13:39				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D130124-001 Prep Batch #...: 2105459							
Aluminum	95	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AC
	99	(75 - 125)	1.3	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AD
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Antimony	96	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AF
	96	(75 - 125)	0.02	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AG
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Arsenic	96	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AJ
	97	(75 - 125)	1.3	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AK
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Barium	92	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AM
	93	(75 - 125)	1.1	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AN
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Beryllium	96	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AQ
	98	(75 - 125)	1.4	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AR
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Cadmium	92	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AU
	94	(75 - 125)	2.5	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1AV
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Calcium	91	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1AX
	96	(75 - 125)	2.0	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1A0
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Chromium	92	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1A2
	93	(75 - 125)	1.4	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1A3
		Dilution Factor: 1					
		Analysis Time..: 14:12					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	94	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1A5
	96	(75 - 125)	1.4	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1A6
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Copper	94	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1A8
	94	(75 - 125)	0.03	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1A9
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Iron	NC,MSB	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CC
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CD
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Lead	92	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CF
	92	(75 - 125)	0.91	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CG
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Magnesium	98	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CJ
	101	(75 - 125)	2.1	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CK
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Manganese	86	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CM
	93	(75 - 125)	1.9	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CN
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Nickel	88	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CQ
	91	(75 - 125)	2.1	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CR
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Potassium	103	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CU
	103	(75 - 125)	0.75	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1CV
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Selenium	97	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1CX
	97	(75 - 125)	0.18	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1C0
		Dilution Factor: 1					
		Analysis Time..: 14:12					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	92	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1C2
	94	(75 - 125)	2.1	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1C3
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Sodium	97	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1C5
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1C6
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Thallium	94	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1C8
	95	(75 - 125)	1.5	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1C9
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Vanadium	94	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1DC
	95	(75 - 125)	1.3	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1DD
		Dilution Factor: 1					
		Analysis Time..: 14:12					
Zinc	97	(75 - 125)			SW846 6010B	04/16-04/17/02	EXV3E1DF
	99	(75 - 125)	1.7	(0-20)	SW846 6010B	04/16-04/17/02	EXV3E1DG
		Dilution Factor: 1					
		Analysis Time..: 14:12					

MS Lot-Sample #: H2D130124-001 Prep Batch #...: 2105465

Mercury	102	(73 - 125)			SW846 7470A	04/16/02	EXV3E1DJ
	102	(73 - 125)	0.0	(0-20)	SW846 7470A	04/16/02	EXV3E1DK
		Dilution Factor: 1					
		Analysis Time..: 13:42					

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

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2D130124-001 **Prep Batch #...:** 2105459									
Aluminum									
	4600	2000	6500	ug/L	95		SW846 6010B	04/16-04/17/02	EXV3E1A(
	4600	2000	6580	ug/L	99	1.3	SW846 6010B	04/16-04/17/02	EXV3E1AI
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Antimony									
	ND	500	481	ug/L	96		SW846 6010B	04/16-04/17/02	EXV3E1AF
	ND	500	481	ug/L	96	0.02	SW846 6010B	04/16-04/17/02	EXV3E1AG
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Arsenic									
	ND	2000	1920	ug/L	96		SW846 6010B	04/16-04/17/02	EXV3E1AJ
	ND	2000	1950	ug/L	97	1.3	SW846 6010B	04/16-04/17/02	EXV3E1AK
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Barium									
	14.6	2000	1860	ug/L	92		SW846 6010B	04/16-04/17/02	EXV3E1AM
	14.6	2000	1880	ug/L	93	1.1	SW846 6010B	04/16-04/17/02	EXV3E1AN
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Beryllium									
	2.4	50.0	50.5	ug/L	96		SW846 6010B	04/16-04/17/02	EXV3E1AQ
	2.4	50.0	51.3	ug/L	98	1.4	SW846 6010B	04/16-04/17/02	EXV3E1AR
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Cadmium									
	ND	50.0	45.9	ug/L	92		SW846 6010B	04/16-04/17/02	EXV3E1AU
	ND	50.0	47.1	ug/L	94	2.5	SW846 6010B	04/16-04/17/02	EXV3E1AV
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Calcium									
	79400	50000	125000	ug/L	91		SW846 6010B	04/16-04/17/02	EXV3E1AX
	79400	50000	128000	ug/L	96	2.0	SW846 6010B	04/16-04/17/02	EXV3E1A0
			Dilution Factor: 1						
			Analysis Time..: 14:12						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	184	ug/L	92		SW846 6010B	04/16-04/17/02	EXV3E1A2
	ND	200	187	ug/L	93	1.4	SW846 6010B	04/16-04/17/02	EXV3E1A3
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Cobalt									
	95.7	500	566	ug/L	94		SW846 6010B	04/16-04/17/02	EXV3E1A5
	95.7	500	574	ug/L	96	1.4	SW846 6010B	04/16-04/17/02	EXV3E1A6
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Copper									
	ND	250	236	ug/L	94		SW846 6010B	04/16-04/17/02	EXV3E1A8
	ND	250	236	ug/L	94	0.03	SW846 6010B	04/16-04/17/02	EXV3E1A9
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Iron									
	11800	1000	12300	ug/L			SW846 6010B	04/16-04/17/02	EXV3E1CC
			Qualifiers: NC,MSB						
	11800	1000	12600	ug/L			SW846 6010B	04/16-04/17/02	EXV3E1CD
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Lead									
	ND	500	458	ug/L	92		SW846 6010B	04/16-04/17/02	EXV3E1CF
	ND	500	462	ug/L	92	0.91	SW846 6010B	04/16-04/17/02	EXV3E1CG
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Magnesium									
	23000	50000	71800	ug/L	98		SW846 6010B	04/16-04/17/02	EXV3E1CJ
	23000	50000	73300	ug/L	101	2.1	SW846 6010B	04/16-04/17/02	EXV3E1CK
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Manganese									
	1350	500	1780	ug/L	86		SW846 6010B	04/16-04/17/02	EXV3E1CM
	1350	500	1810	ug/L	93	1.9	SW846 6010B	04/16-04/17/02	EXV3E1CN
			Dilution Factor: 1						
			Analysis Time..: 14:12						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	208	500	651	ug/L	88		SW846 6010B	04/16-04/17/02	EXV3E1CQ
	208	500	664	ug/L	91	2.1	SW846 6010B	04/16-04/17/02	EXV3E1CR
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Potassium									
	1470	50000	52800	ug/L	103		SW846 6010B	04/16-04/17/02	EXV3E1CU
	1470	50000	53200	ug/L	103	0.75	SW846 6010B	04/16-04/17/02	EXV3E1CV
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Selenium									
	ND	2000	1930	ug/L	97		SW846 6010B	04/16-04/17/02	EXV3E1CX
	ND	2000	1930	ug/L	97	0.18	SW846 6010B	04/16-04/17/02	EXV3E1C0
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Silver									
	ND	50.0	46.2	ug/L	92		SW846 6010B	04/16-04/17/02	EXV3E1C2
	ND	50.0	47.2	ug/L	94	2.1	SW846 6010B	04/16-04/17/02	EXV3E1C3
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Sodium									
	3240	50000	51800	ug/L	97		SW846 6010B	04/16-04/17/02	EXV3E1C5
	3240	50000	52500	ug/L	98	1.3	SW846 6010B	04/16-04/17/02	EXV3E1C6
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Thallium									
	8.6	2000	1880	ug/L	94		SW846 6010B	04/16-04/17/02	EXV3E1C8
	8.6	2000	1910	ug/L	95	1.5	SW846 6010B	04/16-04/17/02	EXV3E1C9
			Dilution Factor: 1						
			Analysis Time..: 14:12						
Vanadium									
	ND	500	468	ug/L	94		SW846 6010B	04/16-04/17/02	EXV3E1DC
	ND	500	474	ug/L	95	1.3	SW846 6010B	04/16-04/17/02	EXV3E1DD
			Dilution Factor: 1						
			Analysis Time..: 14:12						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	194	500	677	ug/L	97		SW846 6010B	04/16-04/17/02	EXV3E1DF
	194	500	689	ug/L	99	1.7	SW846 6010B	04/16-04/17/02	EXV3E1DG

Dilution Factor: 1
Analysis Time..: 14:12

MS Lot-Sample #: H2D130124-001 **Prep Batch #...:** 2105465

Mercury									
	ND	0.00100	0.00102	mg/L	102		SW846 7470A	04/16/02	EXV3E1DJ
	ND	0.00100	0.00102	mg/L	102	0.0	SW846 7470A	04/16/02	EXV3E1DK

Dilution Factor: 1
Analysis Time..: 13:42

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 Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3012

General Chemistry

Lot-Sample #...: H2D100122-001 Work Order #...: EXMWA Matrix.....: WATER
Date Sampled...: 04/09/02 Date Received..: 04/10/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	194	5.0	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 5				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	1750	125	mg/L	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 25				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/10/02	2100489
		Dilution Factor: 1				
Sulfate	868	125	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 25				
Total Alkalinity	488 J	5.0	mg/L	MCAWW 310.1	04/16-04/17/02	2107125
		Dilution Factor: 1				
Total Dissolved Solids	2280	20.0	mg/L	MCAWW 160.1	04/11-04/12/02	2101178
		Dilution Factor: 2				
Total Organic Carbon	3.5	1.0	mg/L	SW846 9060	04/11/02	2102150
		Dilution Factor: 1				
Total Suspended Solids	499	4.0	mg/L	MCAWW 160.2	04/11-04/12/02	2101177
		Dilution Factor: 1				
Turbidity	1470	50.0	NTU	MCAWW 180.1	04/10/02	2100490
		Dilution Factor: 100				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3026

General Chemistry

Lot-Sample #...: H2D100122-002 Work Order #...: EXMWD Matrix.....: WATER
Date Sampled...: 04/09/02 Date Received..: 04/10/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**242**	**10.0**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 10				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**1450**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/11/02**	**2101295**
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/10/02	2100489
		Dilution Factor: 1				
Sulfate	**1030**	**250**	**mg/L**	**MCAWW 375.4**	**04/16/02**	**2106434**
		Dilution Factor: 50				
Total Alkalinity	**562 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107125**
		Dilution Factor: 1				
Total Dissolved Solids	**2200**	**20.0**	**mg/L**	**MCAWW 160.1**	**04/11-04/12/02**	**2101178**
		Dilution Factor: 2				
Total Organic Carbon	**1.4**	**1.0**	**mg/L**	**SW846 9060**	**04/12/02**	**2102150**
		Dilution Factor: 1				
Total Suspended Solids	**11.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/11-04/12/02**	**2101177**
		Dilution Factor: 1				
Turbidity	**158**	**2.5**	**NTU**	**MCAWW 180.1**	**04/10/02**	**2100490**
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3024

General Chemistry

Lot-Sample #...: H2D110123-001 Work Order #...: EXPVW Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**3720**	**50.0**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 50				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	**2500**	**125**	**mg/L**	**MCAWW 130.2**	**04/16/02**	**2106309**
		Dilution Factor: 25				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				
Sulfate	**31.1**	**10.0**	**mg/L**	**MCAWW 375.4**	**04/16/02**	**2106434**
		Dilution Factor: 2				
Total Alkalinity	**68.6 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/11-04/12/02**	**2102158**
		Dilution Factor: 1				
Total Dissolved Solids	**5370**	**100**	**mg/L**	**MCAWW 160.1**	**04/12-04/15/02**	**2102185**
		Dilution Factor: 10				
Total Organic Carbon	**4.6**	**1.0**	**mg/L**	**SW846 9060**	**04/12/02**	**2102150**
		Dilution Factor: 1				
Total Suspended Solids	**115**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/12/02**	**2102183**
		Dilution Factor: 1				
Turbidity	**9250**	**250**	**NTU**	**MCAWW 180.1**	**04/11/02**	**2101526**
		Dilution Factor: 500				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3025

General Chemistry

Lot-Sample #...: H2D110123-002 Work Order #...: EXPV0 Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**4220**	**100**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 100				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	**1960**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/16/02**	**2106309**
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				
Sulfate	**66.6**	**10.0**	**mg/L**	**MCAWW 375.4**	**04/16/02**	**2106434**
		Dilution Factor: 2				
Total Alkalinity	**476 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/11-04/12/02**	**2102158**
		Dilution Factor: 1				
Total Dissolved Solids	**4810**	**100**	**mg/L**	**MCAWW 160.1**	**04/12-04/15/02**	**2102185**
		Dilution Factor: 10				
Total Organic Carbon	**7.4**	**1.0**	**mg/L**	**SW846 9060**	**04/12/02**	**2102150**
		Dilution Factor: 1				
Total Suspended Solids	**32.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/12/02**	**2102183**
		Dilution Factor: 1				
Turbidity	**585**	**12.5**	**NTU**	**MCAWW 180.1**	**04/11/02**	**2101526**
		Dilution Factor: 25				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3027

General Chemistry

Lot-Sample #...: H2D110123-003 Work Order #...: EXPWC Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	4.5	1.0	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	496	10.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 2				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				
Sulfate	248	50.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 10				
Total Alkalinity	233 J	5.0	mg/L	MCAWW 310.1	04/11-04/12/02	2102158
		Dilution Factor: 1				
Total Dissolved Solids	670	10.0	mg/L	MCAWW 160.1	04/12-04/15/02	2102185
		Dilution Factor: 1				
Total Organic Carbon	2.0	1.0	mg/L	SW846 9060	04/12/02	2102150
		Dilution Factor: 1				
Total Suspended Solids	21.0	4.0	mg/L	MCAWW 160.2	04/12/02	2102183
		Dilution Factor: 1				
Turbidity	59.0	2.5	NTU	MCAWW 180.1	04/11/02	2101526
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3028

General Chemistry

Lot-Sample #...: H2D110123-004 **Work Order #...:** EXPWD **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**20.0**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	**980**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/16/02**	**2106309**
		Dilution Factor: 5				
Nitrate	**0.12**	**0.10**	**mg/L**	**MCAWW 353.2**	**04/11/02**	**2101593**
		Dilution Factor: 1				
Sulfate	**749**	**125**	**mg/L**	**MCAWW 375.4**	**04/16/02**	**2106434**
		Dilution Factor: 25				
Total Alkalinity	**351 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/11-04/12/02**	**2102158**
		Dilution Factor: 1				
Total Dissolved Solids	**784**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/12-04/15/02**	**2102185**
		Dilution Factor: 1				
Total Organic Carbon	**1.1**	**1.0**	**mg/L**	**SW846 9060**	**04/12/02**	**2102150**
		Dilution Factor: 1				
Total Suspended Solids	**37.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/12/02**	**2102183**
		Dilution Factor: 1				
Turbidity	**147**	**5.0**	**NTU**	**MCAWW 180.1**	**04/11/02**	**2101526**
		Dilution Factor: 10				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3030

General Chemistry

Lot-Sample #...: H2D110123-005 Work Order #...: EXPWF Matrix.....: WATER
Date Sampled...: 04/10/02 Date Received..: 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	56.0	1.0	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Hardness, as CaCO3	700	25.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				
Sulfate	32.7	10.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 2				
Total Alkalinity	586 J	5.0	mg/L	MCAWW 310.1	04/11-04/12/02	2102158
		Dilution Factor: 1				
Total Dissolved Solids	712	10.0	mg/L	MCAWW 160.1	04/12-04/15/02	2102185
		Dilution Factor: 1				
Total Organic Carbon	3.1	1.0	mg/L	SW846 9060	04/12/02	2102150
		Dilution Factor: 1				
Total Suspended Solids	22.0	4.0	mg/L	MCAWW 160.2	04/12/02	2102183
		Dilution Factor: 1				
Turbidity	137	2.5	NTU	MCAWW 180.1	04/11/02	2101526
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

General Chemistry

Lot-Sample #...: H2D110123-006 **Work Order #...:** EXPWJ **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**369**	**10.0**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 10				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				
Sulfate	ND	5.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 1				
Total Alkalinity	**650 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/11-04/12/02**	**2102158**
		Dilution Factor: 1				
Total Dissolved Solids	**1200**	**20.0**	**mg/L**	**MCAWW 160.1**	**04/12-04/15/02**	**2102185**
		Dilution Factor: 2				
Total Suspended Solids	**16.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/12/02**	**2102183**
		Dilution Factor: 1				
Turbidity	**118**	**2.5**	**NTU**	**MCAWW 180.1**	**04/11/02**	**2101526**
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3014

General Chemistry

Lot-Sample #...: H2D120107-001 Work Order #...: EXRV8 Matrix.....: WATER
Date Sampled...: 04/11/02 Date Received..: 04/12/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	2210	100	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 100				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3	1330	25.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/12/02	2102532
		Dilution Factor: 10				
Sulfate	42.7	10.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 2				
Total Alkalinity	874 J	5.0	mg/L	MCAWW 310.1	04/12/02	2102527
		Dilution Factor: 1				
Total Dissolved Solids	3020	40.0	mg/L	MCAWW 160.1	04/15-04/16/02	2105166
		Dilution Factor: 4				
Total Organic Carbon	5.3	1.0	mg/L	SW846 9060	04/14/02	2105208
		Dilution Factor: 1				
Total Suspended Solids	18.0	4.0	mg/L	MCAWW 160.2	04/15/02	2105167
		Dilution Factor: 1				
Turbidity	9.2	0.50	NTU	MCAWW 180.1	04/12/02	2102524
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3033

General Chemistry

Lot-Sample #...: H2D120107-002 **Work Order #...:** EXRWA **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/12/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3	**480**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/16/02**	**2106309**
		Dilution Factor: 5				
Total Organic Carbon	**1.0**	**1.0**	**mg/L**	**SW846 9060**	**04/14/02**	**2105208**
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3037

General Chemistry

Lot-Sample #...: H2D120107-004 Work Order #...: EXRWM Matrix.....: WATER
Date Sampled...: 04/11/02 Date Received..: 04/12/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	75.9	1.0	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	700	25.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 5				
Nitrate	ND G	2.0	mg/L	MCAWW 353.2	04/12/02	2102532
		Dilution Factor: 20				
Sulfate	734	125	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 25				
Total Dissolved Solids	1450	10.0	mg/L	MCAWW 160.1	04/15-04/16/02	2105166
		Dilution Factor: 1				
Total Organic Carbon	5.5	1.0	mg/L	SW846 9060	04/14/02	2105208
		Dilution Factor: 1				
Total Suspended Solids	14.0	4.0	mg/L	MCAWW 160.2	04/15/02	2105167
		Dilution Factor: 1				
Turbidity	8.0	0.50	NTU	MCAWW 180.1	04/12/02	2102524
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3038

General Chemistry

Lot-Sample #...: H2D130124-001 **Work Order #...:** EXV3E **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**2.1**	**1.0**	**mg/L**	**MCAWW 325.2**	**04/16/02**	**2106438**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	**272**	**5.0**	**mg/L**	**MCAWW 130.2**	**04/16/02**	**2106309**
		Dilution Factor: 1				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/13/02	2105362
		Dilution Factor: 1				
Sulfate	**286**	**50.0**	**mg/L**	**MCAWW 375.4**	**04/16/02**	**2106434**
		Dilution Factor: 10				
Total Alkalinity	**1.9 B,J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Dissolved Solids	**518**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/16-04/17/02**	**2106381**
		Dilution Factor: 1				
Total Organic Carbon	**1.6**	**1.0**	**mg/L**	**SW846 9060**	**04/13/02**	**2105208**
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				
Turbidity	**0.98**	**0.50**	**NTU**	**MCAWW 180.1**	**04/13/02**	**2103128**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3039

General Chemistry

Lot-Sample #...: H2D130124-003 Work Order #...: EXV4Q Matrix.....: WATER
Date Sampled...: 04/12/02 Date Received..: 04/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	3480	100	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 100				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3	1580	25.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 5				
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/13/02	2105362
		Dilution Factor: 1				
Sulfate	1.4 B	5.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 1				
Total Alkalinity	691 J	5.0	mg/L	MCAWW 310.1	04/17/02	2107557
		Dilution Factor: 1				
Total Dissolved Solids	6010	100	mg/L	MCAWW 160.1	04/16-04/17/02	2106381
		Dilution Factor: 10				
Total Organic Carbon	5.9	1.0	mg/L	SW846 9060	04/14/02	2105208
		Dilution Factor: 1				
Total Suspended Solids	24.0	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				
Turbidity	277	20.0	NTU	MCAWW 180.1	04/13/02	2103128
		Dilution Factor: 40				

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

General Chemistry

Lot-Sample #...: H2D130124-005 **Work Order #...:** EXV40 **Matrix.....:** WATER
Date Sampled...: 04/10/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Total Organic Carbon	**6.4 J**	**1.0**	**mg/L**	**SW846 9060**	**04/25/02**	**2116116**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

General Chemistry

Lot-Sample #...: H2D130124-011 Work Order #...: EX3P2 Matrix.....: WATER
Date Sampled...: 04/11/02 Date Received..: 04/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	6400	100	mg/L	MCAWW 325.2	04/16/02	2114125
		Dilution Factor: 100				
Hardness, as CaCO3	5740	125	mg/L	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 25				
Sulfate	218	50.0	mg/L	MCAWW 375.4	04/16/02	2114128
		Dilution Factor: 10				
Total Alkalinity	246 J	5.0	mg/L	MCAWW 310.1	04/17/02	2114119
		Dilution Factor: 1				
Total Dissolved Solids	12500	200	mg/L	MCAWW 160.1	04/16-04/17/02	2106381
		Dilution Factor: 20				
Total Suspended Solids	1660	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3040

General Chemistry

Lot-Sample #...: H2D130124-012 **Work Order #...:** EX3P3 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate	ND	0.10	mg/L	MCAWW 353.2	04/13/02	2114109
		Dilution Factor: 1				
Turbidity	**6500**	**100**	**NTU**	**MCAWW 180.1**	**04/13/02**	**2114110**
		Dilution Factor: 200				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: EX05E1AA		MB Lot-Sample #:	A2D160000-438	
	ND	1.0	mg/L	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1				
Chloride - Automated		Work Order #: E0CCG1AA		MB Lot-Sample #:	A2D240000-125	
	ND	1.0	mg/L	MCAWW 325.2	04/16/02	2114125
		Dilution Factor: 1				
Cyanide, Total		Work Order #: EXXF41AA		MB Lot-Sample #:	H2D150000-441	
	ND	0.010	mg/L	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E0EA41AA		MB Lot-Sample #:	H2D250000-173	
	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E0EDQ1AA		MB Lot-Sample #:	H2D250000-188	
	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: EXQN41AA		MB Lot-Sample #:	A2D110000-295	
	ND	5.0	mg/L	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: EX0GT1AA		MB Lot-Sample #:	A2D160000-309	
	ND	5.0	mg/L	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E0A9W1AA		MB Lot-Sample #:	A2D230000-462	
	ND	5.0	mg/L	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 1				
Nitrate		Work Order #: EXPKQ1AA		MB Lot-Sample #:	A2D100000-489	
	ND	0.10	mg/L	MCAWW 353.2	04/10/02	2100489
		Dilution Factor: 1				
Nitrate		Work Order #: EXRMJ1AA		MB Lot-Sample #:	A2D110000-593	
	ND	0.10	mg/L	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate		Work Order #: EXVVG1AA		MB Lot-Sample #:	A2D120000-532	
	ND	0.10	mg/L	MCAWW 353.2	04/12/02	2102532
		Dilution Factor: 1				
Nitrate		Work Order #: EXW7C1AA		MB Lot-Sample #:	A2D150000-362	
	ND	0.10	mg/L	MCAWW 353.2	04/13/02	2105362
		Dilution Factor: 1				
Nitrate		Work Order #: E0CAN1AA		MB Lot-Sample #:	A2D240000-109	
	ND	0.10	mg/L	MCAWW 353.2	04/13/02	2114109
		Dilution Factor: 1				
Sulfate		Work Order #: EX05G1AA		MB Lot-Sample #:	A2D160000-434	
	ND	5.0	mg/L	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 1				
Sulfate		Work Order #: E0CCL1AA		MB Lot-Sample #:	A2D240000-128	
	ND	5.0	mg/L	MCAWW 375.4	04/16/02	2114128
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EXR081AA		MB Lot-Sample #:	A2D120000-158	
	3.2 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/11/02**	**2102158**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EXVVF1AA		MB Lot-Sample #:	A2D120000-527	
	3.8 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/12/02**	**2102527**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: E0CA61AA		MB Lot-Sample #:	A2D240000-119	
	4.3 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16/02**	**2114119**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EX1KJ1AA		MB Lot-Sample #:	A2D170000-125	
	4.3 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107125**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EX1KK1AA		MB Lot-Sample #:	A2D170000-127	
	3.9 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EX3KX1AA		MB Lot-Sample #:	A2D170000-557	
	3.9 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/17/02**	**2107557**
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids		Work Order #: EXPXQ1AA		MB Lot-Sample #:	A2D110000-178	
	ND	10.0	mg/L	MCAWW 160.1	04/11-04/12/02	2101178
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXRXK1AA		MB Lot-Sample #:	A2D120000-185	
	ND	10.0	mg/L	MCAWW 160.1	04/12-04/15/02	2102185
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EXWMF1AA		MB Lot-Sample #:	A2D150000-166	
	ND	10.0	mg/L	MCAWW 160.1	04/15-04/16/02	2105166
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EX1521AA		MB Lot-Sample #:	A2D160000-381	
	ND	10.0	mg/L	MCAWW 160.1	04/16-04/17/02	2106381
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EXRTX1AA		MB Lot-Sample #:	A2D120000-150	
	ND	1.0	mg/L	SW846 9060	04/11/02	2102150
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EXWQ91AA		MB Lot-Sample #:	A2D150000-208	
	ND	1.0	mg/L	SW846 9060	04/13/02	2105208
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E0GNN1AA		MB Lot-Sample #:	A2D260000-116	
	0.62 B	**1.0**	**mg/L**	**SW846 9060**	**04/25/02**	**2116116**
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXPXM1AA		MB Lot-Sample #:	A2D110000-177	
	ND	4.0	mg/L	MCAWW 160.2	04/11-04/12/02	2101177
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXRXJ1AA		MB Lot-Sample #:	A2D120000-183	
	ND	4.0	mg/L	MCAWW 160.2	04/12/02	2102183
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EXWMG1AA		MB Lot-Sample #:	A2D150000-167	
	ND	4.0	mg/L	MCAWW 160.2	04/15/02	2105167
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		Work Order #: EX16Q1AA		MB Lot-Sample #:	A2D170000-219	
	ND	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				
Turbidity		Work Order #: EXPKP1AA		MB Lot-Sample #:	A2D100000-490	
	ND	0.50	NTU	MCAWW 180.1	04/10/02	2100490
		Dilution Factor: 1				
Turbidity		Work Order #: EXRML1AA		MB Lot-Sample #:	A2D110000-526	
	ND	0.50	NTU	MCAWW 180.1	04/11/02	2101526
		Dilution Factor: 1				
Turbidity		Work Order #: EXVVC1AA		MB Lot-Sample #:	A2D120000-524	
	ND	0.50	NTU	MCAWW 180.1	04/12/02	2102524
		Dilution Factor: 1				
Turbidity		Work Order #: EXV911AA		MB Lot-Sample #:	A2D130000-128	
	ND	0.50	NTU	MCAWW 180.1	04/13/02	2103128
		Dilution Factor: 1				
Turbidity		Work Order #: E0CAT1AA		MB Lot-Sample #:	A2D240000-110	
	ND	0.50	NTU	MCAWW 180.1	04/13/02	2114110
		Dilution Factor: 1				

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

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: EX05E1AC	LCS Lot-Sample#: A2D160000-438		
	104	(90 - 115)	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1			
Chloride - Automated		Work Order #: E0CCG1AC	LCS Lot-Sample#: A2D240000-125		
	104	(90 - 115)	MCAWW 325.2	04/16/02	2114125
		Dilution Factor: 1			
Cyanide, Total		Work Order #: EXXF41AC	LCS Lot-Sample#: H2D150000-441		
	108	(88 - 113)	SW846 9012A	04/15/02	2105441
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E0EA41AC	LCS Lot-Sample#: H2D250000-173		
	98	(88 - 113)	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E0EDQ1AC	LCS Lot-Sample#: H2D250000-188		
	106	(88 - 113)	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: EXQN41AC	LCS Lot-Sample#: A2D110000-295		
	96	(84 - 116)	MCAWW 130.2	04/11/02	2101295
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: EX0GT1AC	LCS Lot-Sample#: A2D160000-309		
	100	(84 - 116)	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E0A9W1AC	LCS Lot-Sample#: A2D230000-462		
	99	(84 - 116)	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 1			
Nitrate		Work Order #: EXPKQ1AC	LCS Lot-Sample#: A2D100000-489		
	110	(77 - 116)	MCAWW 353.2	04/10/02	2100489
		Dilution Factor: 1			
Nitrate		Work Order #: EXRMJ1AC	LCS Lot-Sample#: A2D110000-593		
	99	(77 - 116)	MCAWW 353.2	04/11/02	2101593
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate		Work Order #: EXVVG1AC	LCS Lot-Sample#: A2D120000-532		
	97	(77 - 116)	MCAWW 353.2	04/12/02	2102532
		Dilution Factor: 1			
Nitrate		Work Order #: EXW7C1AC	LCS Lot-Sample#: A2D150000-362		
	102	(77 - 116)	MCAWW 353.2	04/13/02	2105362
		Dilution Factor: 1			
Nitrate		Work Order #: E0CAN1AC	LCS Lot-Sample#: A2D240000-109		
	104	(77 - 116)	MCAWW 353.2	04/13/02	2114109
		Dilution Factor: 1			
Sulfate		Work Order #: EX05G1AC	LCS Lot-Sample#: A2D160000-434		
	92	(80 - 112)	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 1			
Sulfate		Work Order #: E0CCL1AC	LCS Lot-Sample#: A2D240000-128		
	92	(80 - 112)	MCAWW 375.4	04/16/02	2114128
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EXR081AC	LCS Lot-Sample#: A2D120000-158		
	90	(90 - 127)	MCAWW 310.1	04/11/02	2102158
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EXVVF1AC	LCS Lot-Sample#: A2D120000-527		
	100	(90 - 127)	MCAWW 310.1	04/12/02	2102527
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EX1KJ1AC	LCS Lot-Sample#: A2D170000-125		
	99	(90 - 127)	MCAWW 310.1	04/16-04/17/02	2107125
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EX1KK1AC	LCS Lot-Sample#: A2D170000-127		
	99	(90 - 127)	MCAWW 310.1	04/16-04/17/02	2107127
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EX3KX1AC	LCS Lot-Sample#: A2D170000-557		
	99	(90 - 127)	MCAWW 310.1	04/17/02	2107557
		Dilution Factor: 1			
Total Alkalinity		Work Order #: E0CA61AC	LCS Lot-Sample#: A2D240000-119		
	99	(90 - 127)	MCAWW 310.1	04/16/02	2114119
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids		Work Order #: EXPXQ1AC		LCS Lot-Sample#: A2D110000-178	
	92	(69 - 120)	MCAWW 160.1	04/11-04/12/02	2101178
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXRXK1AC		LCS Lot-Sample#: A2D120000-185	
	103	(69 - 120)	MCAWW 160.1	04/12-04/15/02	2102185
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EXWMF1AC		LCS Lot-Sample#: A2D150000-166	
	90	(69 - 120)	MCAWW 160.1	04/15-04/16/02	2105166
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EX1521AC		LCS Lot-Sample#: A2D160000-381	
	94	(69 - 120)	MCAWW 160.1	04/16-04/17/02	2106381
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EXRTX1AC		LCS Lot-Sample#: A2D120000-150	
	101	(88 - 115)	SW846 9060	04/11/02	2102150
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EXWQ91AC		LCS Lot-Sample#: A2D150000-208	
	99	(88 - 115)	SW846 9060	04/13/02	2105208
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E0GNN1AC		LCS Lot-Sample#: A2D260000-116	
	99	(88 - 115)	SW846 9060	04/25/02	2116116
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EXPXM1AC		LCS Lot-Sample#: A2D110000-177	
	96	(66 - 119)	MCAWW 160.2	04/11-04/12/02	2101177
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EXRXJ1AC		LCS Lot-Sample#: A2D120000-183	
	98	(66 - 119)	MCAWW 160.2	04/12/02	2102183
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		Work Order #: EXWMG1AC	LCS Lot-Sample#: A2D150000-167		
	101	(66 - 119)	MCAWW 160.2	04/15/02	2105167
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: EX16Q1AC	LCS Lot-Sample#: A2D170000-219		
	107	(66 - 119)	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1			
Turbidity		Work Order #: EXPKP1AC	LCS Lot-Sample#: A2D100000-490		
	113	(75 - 125)	MCAWW 180.1	04/10/02	2100490
		Dilution Factor: 1			
Turbidity		Work Order #: EXRML1AC	LCS Lot-Sample#: A2D110000-526		
	109	(75 - 125)	MCAWW 180.1	04/11/02	2101526
		Dilution Factor: 1			
Turbidity		Work Order #: EXVVC1AC	LCS Lot-Sample#: A2D120000-524		
	110	(75 - 125)	MCAWW 180.1	04/12/02	2102524
		Dilution Factor: 1			
Turbidity		Work Order #: EXV911AC	LCS Lot-Sample#: A2D130000-128		
	108	(75 - 125)	MCAWW 180.1	04/13/02	2103128
		Dilution Factor: 1			
Turbidity		Work Order #: E0CAT1AC	LCS Lot-Sample#: A2D240000-110		
	108	(75 - 125)	MCAWW 180.1	04/13/02	2114110
		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 #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	EX05E1AC	LCS Lot-Sample#:	A2D160000-438	
	70.3	73.3	mg/L	104	MCAWW 325.2	04/16/02	2106438
			Dilution Factor: 1				
Chloride - Automated			Work Order #:	E0CCG1AC	LCS Lot-Sample#:	A2D240000-125	
	70.3	73.3	mg/L	104	MCAWW 325.2	04/16/02	2114125
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	EXXF41AC	LCS Lot-Sample#:	H2D150000-441	
	0.200	0.215	mg/L	108	SW846 9012A	04/15/02	2105441
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	E0EA41AC	LCS Lot-Sample#:	H2D250000-173	
	0.200	0.197	mg/L	98	SW846 9012A	04/19-04/20/02	2115173
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	E0EDQ1AC	LCS Lot-Sample#:	H2D250000-188	
	0.200	0.212	mg/L	106	SW846 9012A	04/23-04/24/02	2115188
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	EXQN41AC	LCS Lot-Sample#:	A2D110000-295	
	224	216	mg/L	96	MCAWW 130.2	04/11/02	2101295
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	EX0GT1AC	LCS Lot-Sample#:	A2D160000-309	
	224	224	mg/L	100	MCAWW 130.2	04/16/02	2106309
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	E0A9W1AC	LCS Lot-Sample#:	A2D230000-462	
	224	221	mg/L	99	MCAWW 130.2	04/23/02	2113462
			Dilution Factor: 1				
Nitrate			Work Order #:	EXPKQ1AC	LCS Lot-Sample#:	A2D100000-489	
	0.500	0.548	mg/L	110	MCAWW 353.2	04/10/02	2100489
			Dilution Factor: 1				
Nitrate			Work Order #:	EXRMJ1AC	LCS Lot-Sample#:	A2D110000-593	
	0.500	0.495	mg/L	99	MCAWW 353.2	04/11/02	2101593
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate			Work Order #: EXVVG1AC		LCS Lot-Sample#:	A2D120000-532	
	0.500	0.486	mg/L	97	MCAWW 353.2	04/12/02	2102532
			Dilution Factor: 1				
Nitrate			Work Order #: EXW7C1AC		LCS Lot-Sample#:	A2D150000-362	
	2.99	3.04	mg/L	102	MCAWW 353.2	04/13/02	2105362
			Dilution Factor: 1				
Nitrate			Work Order #: E0CAN1AC		LCS Lot-Sample#:	A2D240000-109	
	0.500	0.518	mg/L	104	MCAWW 353.2	04/13/02	2114109
			Dilution Factor: 1				
Sulfate			Work Order #: EX05G1AC		LCS Lot-Sample#:	A2D160000-434	
	37.7	34.6	mg/L	92	MCAWW 375.4	04/16/02	2106434
			Dilution Factor: 1				
Sulfate			Work Order #: E0CCL1AC		LCS Lot-Sample#:	A2D240000-128	
	37.7	34.6	mg/L	92	MCAWW 375.4	04/16/02	2114128
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EXR081AC		LCS Lot-Sample#:	A2D120000-158	
	43.4	39.2	mg/L	90	MCAWW 310.1	04/11/02	2102158
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EXVVF1AC		LCS Lot-Sample#:	A2D120000-527	
	99.2	98.7	mg/L	100	MCAWW 310.1	04/12/02	2102527
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EX1KJ1AC		LCS Lot-Sample#:	A2D170000-125	
	43.4	43.0	mg/L	99	MCAWW 310.1	04/16-04/17/02	2107125
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EX1KK1AC		LCS Lot-Sample#:	A2D170000-127	
	43.4	43.1	mg/L	99	MCAWW 310.1	04/16-04/17/02	2107127
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EX3KX1AC		LCS Lot-Sample#:	A2D170000-557	
	43.4	43.1	mg/L	99	MCAWW 310.1	04/17/02	2107557
			Dilution Factor: 1				
Total Alkalinity			Work Order #: E0CA61AC		LCS Lot-Sample#:	A2D240000-119	
	43.4	43.0	mg/L	99	MCAWW 310.1	04/16/02	2114119
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids			Work Order #: EXPXQ1AC		LCS Lot-Sample#: A2D110000-178		
	320	296	mg/L	92	MCAWW 160.1	04/11-04/12/02	2101178
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXRXK1AC		LCS Lot-Sample#: A2D120000-185		
	320	329	mg/L	103	MCAWW 160.1	04/12-04/15/02	2102185
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EXWMF1AC		LCS Lot-Sample#: A2D150000-166		
	320	289	mg/L	90	MCAWW 160.1	04/15-04/16/02	2105166
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EX1521AC		LCS Lot-Sample#: A2D160000-381		
	320	300	mg/L	94	MCAWW 160.1	04/16-04/17/02	2106381
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: EXRTX1AC		LCS Lot-Sample#: A2D120000-150		
	38.5	38.8	mg/L	101	SW846 9060	04/11/02	2102150
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: EXWQ91AC		LCS Lot-Sample#: A2D150000-208		
	38.5	38.1	mg/L	99	SW846 9060	04/13/02	2105208
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: E0GNN1AC		LCS Lot-Sample#: A2D260000-116		
	38.5	38.1	mg/L	99	SW846 9060	04/25/02	2116116
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: EXPXM1AC		LCS Lot-Sample#: A2D110000-177		
	45.0	43.0	mg/L	96	MCAWW 160.2	04/11-04/12/02	2101177
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: EXRXJ1AC		LCS Lot-Sample#: A2D120000-183		
	45.0	44.0	mg/L	98	MCAWW 160.2	04/12/02	2102183
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB002 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids			Work Order #: EXWMG1AC		LCS Lot-Sample#:	A2D150000-167	
	32.6	33.0	mg/L	101	MCAWW 160.2	04/15/02	2105167
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: EX16Q1AC		LCS Lot-Sample#:	A2D170000-219	
	32.6	35.0	mg/L	107	MCAWW 160.2	04/17-04/18/02	2107219
			Dilution Factor: 1				
Turbidity			Work Order #: EXPKP1AC		LCS Lot-Sample#:	A2D100000-490	
	1.00	1.13	NTU	113	MCAWW 180.1	04/10/02	2100490
			Dilution Factor: 1				
Turbidity			Work Order #: EXRML1AC		LCS Lot-Sample#:	A2D110000-526	
	1.00	1.09	NTU	109	MCAWW 180.1	04/11/02	2101526
			Dilution Factor: 1				
Turbidity			Work Order #: EXVVC1AC		LCS Lot-Sample#:	A2D120000-524	
	1.00	1.10	NTU	110	MCAWW 180.1	04/12/02	2102524
			Dilution Factor: 1				
Turbidity			Work Order #: EXV911AC		LCS Lot-Sample#:	A2D130000-128	
	1.00	1.08	NTU	108	MCAWW 180.1	04/13/02	2103128
			Dilution Factor: 1				
Turbidity			Work Order #: E0CAT1AC		LCS Lot-Sample#:	A2D240000-110	
	1.00	1.08	NTU	108	MCAWW 180.1	04/13/02	2114110
			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 #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	EXV3E1EC-MS/EXV3E1ED-MSD			MS Lot-Sample #:	H2D130124-001
	95	(43 - 167)			MCAWW 325.2	04/16/02	2106438
	96	(43 - 167)	1.3	(0-23)	MCAWW 325.2	04/16/02	2106438
		Dilution Factor: 1					
Cyanide, Total		WO#:	EXV3E1EQ-MS/EXV3E1ER-MSD			MS Lot-Sample #:	H2D130124-001
	98	(77 - 126)			SW846 9012A	04/19-04/20/02	2115173
	97	(77 - 126)	1.0	(0-20)	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	EXV3E1EU-MS/EXV3E1EV-MSD			MS Lot-Sample #:	H2D130124-001
	78	(10 - 176)			MCAWW 130.2	04/16/02	2106309
	74	(10 - 176)	1.9	(0-23)	MCAWW 130.2	04/16/02	2106309
		Dilution Factor: 1					
Nitrate		WO#:	EXV3E1EF-MS/EXV3E1EG-MSD			MS Lot-Sample #:	H2D130124-001
	107	(10 - 163)			MCAWW 353.2	04/13/02	2105362
	103	(10 - 163)	3.6	(0-24)	MCAWW 353.2	04/13/02	2105362
		Dilution Factor: 1					
Sulfate		WO#:	EXV3E1EJ-MS/EXV3E1EK-MSD			MS Lot-Sample #:	H2D130124-001
	NC,MSB	(22 - 151)			MCAWW 375.4	04/16/02	2106434
	NC,MSB	(22 - 151)		(0-31)	MCAWW 375.4	04/16/02	2106434
		Dilution Factor: 1					
Total Alkalinity		WO#:	EXV3E1D8-MS/EXV3E1D9-MSD			MS Lot-Sample #:	H2D130124-001
	73	(10 - 160)			MCAWW 310.1	04/16-04/17/02	2107127
	73	(10 - 160)	0.63	(0-24)	MCAWW 310.1	04/16-04/17/02	2107127
		Dilution Factor: 1					
Total Organic Carbon		WO#:	EXV3E1EM-MS/EXV3E1EN-MSD			MS Lot-Sample #:	H2D130124-001
	100	(72 - 136)			SW846 9060	04/13/02	2105208
	92	(72 - 136)	7.7	(0-20)	SW846 9060	04/13/02	2105208
		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 #...: CB002 **Matrix.....:** WATER
Date Sampled...: 04/12/02 **Date Received..:** 04/13/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: EXV3E1EC-MS/EXV3E1ED-MSD				MS Lot-Sample #: H2D130124-001		
	2.1	25.0	25.8	mg/L	95		MCAWW 325.2	04/16/02	2106438
	2.1	25.0	26.2	mg/L	96	1.3	MCAWW 325.2	04/16/02	2106438
			Dilution Factor: 1						
Cyanide, Total			WO#: EXV3E1EQ-MS/EXV3E1ER-MSD				MS Lot-Sample #: H2D130124-001		
	ND	0.200	0.196	mg/L	98		SW846 9012A	04/19-04/20/02	2115173
	ND	0.200	0.194	mg/L	97	1.0	SW846 9012A	04/19-04/20/02	2115173
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: EXV3E1EU-MS/EXV3E1EV-MSD				MS Lot-Sample #: H2D130124-001		
	272	200	428	mg/L	78		MCAWW 130.2	04/16/02	2106309
	272	200	420	mg/L	74	1.9	MCAWW 130.2	04/16/02	2106309
			Dilution Factor: 1						
Nitrate			WO#: EXV3E1EF-MS/EXV3E1EG-MSD				MS Lot-Sample #: H2D130124-001		
	ND	0.250	0.268	mg/L	107		MCAWW 353.2	04/13/02	2105362
	ND	0.250	0.259	mg/L	103	3.6	MCAWW 353.2	04/13/02	2105362
			Dilution Factor: 1						
Sulfate			WO#: EXV3E1EJ-MS/EXV3E1EK-MSD				MS Lot-Sample #: H2D130124-001		
	286	25.0	254	mg/L			MCAWW 375.4	04/16/02	2106434
			Qualifiers: NC,MSB						
	286	25.0	272	mg/L			MCAWW 375.4	04/16/02	2106434
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Total Alkalinity			WO#: EXV3E1D8-MS/EXV3E1D9-MSD				MS Lot-Sample #: H2D130124-001		
	1.9	500	367	mg/L	73		MCAWW 310.1	04/16-04/17/02	2107127
	1.9	500	369	mg/L	73	0.63	MCAWW 310.1	04/16-04/17/02	2107127
			Dilution Factor: 1						
Total Organic Carbon			WO#: EXV3E1EM-MS/EXV3E1EN-MSD				MS Lot-Sample #: H2D130124-001		
	1.6	25.0	26.6	mg/L	100		SW846 9060	04/13/02	2105208
	1.6	25.0	24.6	mg/L	92	7.7	SW846 9060	04/13/02	2105208
			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 Receipt Documentation

SEVERN TRENT
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# CB002

*	DATE REC'D	LOT#	CLIENT ID	VOA	BNA	CN	EXP	T/MET	D/MET	TOC	CHL	NIT	SULF	TDS	TSS	TURB	ALK	HARD
				8260B	8270C	9012	8330	6010B	6010B	9060	325.2	353.2	375.4	160.1	160.2	180.1	310.1	130.2
1,	4/10/2002	H2D100122	CB3012	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
2			CB3026	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
3			CB5012	X														
4	4/11/2002	H2D110123	CB3024	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
5			CB3025	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
6			CB3027	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
7			CB3028	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
8			CB3030	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
9			CB5013	X														
10			CB3033								NC	NC	NC	NC	NC	NC	NC	
11	4/12/2002	H2D120107	CB3014	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
12			CB3033	X	X	X	X	X	X	NC								NC
13			CB3034	X	X		X	X	X									
14			CB3037	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC		NC
15			CB5016	X														
16	4/13/2002	H2D130124	CB3038	QC	QC	QC	QC	QC	QC	NC/QC	NC/QC	NC/QC	NC/QC	NC/QC	NC/QC	NC/QC	NC/QC	NC/QC
17			CB3039	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
18			CB3040	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC
19			CB3046	X	X		X	X	X									
20			CB5001	X	X		X	X										
21			CB5018	X														

NC = NORTH CANTON
A = STL AUSTIN
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: WATER
ANALYTICAL DUE: 5-3-02
REPORT DUE: 5-7-02
CLOSED?YES

5/7/200210:47 AM

IT CORPORATION
A Member of The IT Group

H2D100122

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002K

Project Number: 825635
Samples Shipment Date: 09 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095435

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature] Date: 4/9/02 Time: 1800
1. Received By (Signature/Affiliation) Matthew J. Howard Date: 04-10-02 Time: 08:50
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:
See faxed COC for corrected sample name
pm 4/11/02

Rec'd temp. 2°C
Custody Seals intact
FedEx# 827069095435
MFH 04-10-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846	N		pH2

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H2D100022

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							6010B/7470A in water			
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5012	FIELDQC-BW-CB5012-TB	09 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

004

H2D108122

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002K

Project Number: 825635
Samples Shipment Date: 09 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095435

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Date: Time:	1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:	2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:	3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3012	PBOW-02-GW-PB-BED-MW27-CB3012-85-88	09 APR 2002	09:00	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		

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H2D100122

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3026	PBOW-02-GW-TNTC-BEDGW-001-CB3026-83-83	09 APR 2002	12:48	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB5012	PBOW-02-GW-FIELDQC-CB5012--	09 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: IT Corp. PROJECT: Plumbrook Ordnance Wks Lot No.: H2D100122

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: Matthew J. Howard DATE: 04-10-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : [signature] DATE: 4/11/02

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: _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D100122

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA
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		
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: pm DATE: 4/4/02

H2D100122

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002N

Project Number: 825635
Samples Shipment Date: 09 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095490

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Don Dill — Date: 4/9/02 Time: 1800
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) Jerry Stille STL — Date: 4-10-02 Time: 9:45

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil. CID	Condition On Receipt
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N	
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N	
CB3012	PB-BED-MW27-GW-CB3012-REG	09 APR 2002	09:00	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N	
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N	
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total	N	

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H2D100122

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1			
CB3026	TNTC-BEDGW-001-GW-CB3026-REG	09 APR 2002	12:48	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

Rec'd by: Jenny Stiller STL
4-10-02 9:45

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H2D100122

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: IT Project: Plum Brook Quote#: ____
Cooler Received on: 4-10-02 Opened on: 4-10-02 by: Jenny Stiller (Signature)

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

Cooler [ ] Safe [ ] Foam Box [ ] Client Cooler [X] Other: ____
STL Shipper No#: ____

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity 2 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 [X] Vermiculite [X] Foam [ ] None [ ] Other: ____

6. Cooler temperature upon receipt 11 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial [X] Between Coolant & Sample Container [ ] Against Bottles [ ]
COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Were all the bottles sealed in separate plastic bags? Yes [ ] No [X]
8. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
9. Did all bottle labels and tags agree with the custody papers? Yes [X] No [ ]
10. Were samples at the correct pH? Yes [X] No [ ] NA [X] 4/10/02
11. Were correct bottles used for the tests indicated? Yes [X] No [ ]
12. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [ ] NA [X]
13. 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	Samples were received under proper custody procedures and without discrepancies.
	SR1B	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) ____ were received with bubble > 6 mm in diameter (cc: PM)
4. NCM		
	SR4A	NCM has been generated. Refer to Clouseau for details
5. Other Anomalies (see below or back)		

H20100122

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
CB3012	<2	4-10-02	[illegible]
CB3026	<2	↓	↓

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

H2D110123

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04102002K

Project Number: 825635
Samples Shipment Date: 10 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095468

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) David Kessler	Date: 4/10/02 Time: 1800	1. Received By (Signature/Affiliation) Matthew J. Howard	Date: 04-11-02 Time: 08:46
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NOTE: CB3025: 1 OF 2 SEMI BTL ONLY 1/4 FULL / CYANIDE BOTTLE 2/3

Rec'd temp. 3°C
custody seals intact
Fedex# 827069095468
MFH. 04-11-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		ph2
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3024	PBOW-02-GW-TNTB-BEDGW,003-CB3024-38-38	10 APR 2002	11:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total	N		

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H2D10123

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04102002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							Suspended Solids by E160.2, Turbidity by 180.1			
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12

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STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: It Corp PROJECT: Plum brook ordnance wks Lot No.: H2D110123

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: 04-11-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : [signature] DATE: 4/12/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CB5013	8260	4a	rec'd 3 x 40 mL vials but not once
			MFH04-11-02
CB3024	Wet Chem	4f	See back

☒ Client informed on 4/10/02 by Conference. Person contacted: V Glaves; M McMeyler

☐ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: [signature] Date: 4/12/02

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: Did not recive 1LP that has Wet chem Analysis.
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): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D110123

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		
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 4/15/02	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		X 4/12/02
c. Were all issues resolved?			X

LOT FOLDER REVIEWED BY: [signature] DATE: 4/12/02

Delete hardness from CB33033. Per CUR, sample on COC but not received. DKD 4-15-02

H2D110123

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04102002N

Project Number: 825635
Samples Shipment Date: 10 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095424

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) David Kessler	Date: 4/10/02 Time: 1800	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) Jenny Tiller	Date: 4-11-02 Time: 9:05

Comments: NOTE: CB3025 1-L BTL ONLY 1/2 FULL

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3024	PBOW-02-GW-TNTB-BEDGW-003-CB3024-38-38	10 APR 2002	11:50	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	40 mL GVIAL,SEP	2	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

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H2D110123

IT CORPORATION
A Member of The CI Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04102002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3025	PBOW-02-GW-PB-BED-MW13-CB3025-71-75	10 APR 2002	08:40	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3027	PBOW-02-GW-PB-TNTC-MW3-CB3027-4-4	10 APR 2002	09:35	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3028	PBOW-02-GW-PB-TNTC-MW4-CB3028-7-11	10 APR 2002	10:50	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3030	PBOW-02-GW-IT-AA2-BEDGW-001-CB3030-19-24	10 APR 2002	09:40	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-0-0	10 APR 2002	17:00	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-0-0	10 APR 2002	17:00	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		

Rec'd by: Jenny Miller
4-11-02 9:05

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H2D110123

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: IT Project: Quote#:
Cooler Received on: 4-11-02 Opened on: 4-11-02 by: (Signature)

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

Cooler [ ] Safe [ ] Foam Box [ ] Client Cooler [X] Other:
STL Shipper No#:

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity 2 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 [X] Foam [ ] None [ ] Other :

6. Cooler temperature upon receipt 5.8 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial [X] Between Coolant & Sample Container [ ] Against Bottles [ ]
COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Were all the bottles sealed in separate plastic bags? Yes [ ] No [X]
8. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
9. Did all bottle labels and tags agree with the custody papers? Yes [X] No [ ]
10. Were samples at the correct pH? Yes [X] No [ ] NA [ ]
11. Were correct bottles used for the tests indicated? Yes [X] No [ ]
12. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
13. 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	Samples were received under proper custody procedures and without discrepancies.
✓	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred Hardness bottle not rec'd for CB3133.
	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. NCM	
	SR4A	NCM has been generated. Refer to Clouseau for details
	5. Other Anomalies (see below or back)	

H2D110123

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
UB3024	<2	4-11-02	[illegible]
25	<2		
27	<2		
28	<2		
30	<2		

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

H2D120107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04112002K

Project Number: 825635
Samples Shipment Date: 11 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095376

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) D m Dill	Date: 4/11/02 Time: 1800	1. Received By (Signature/Affiliation) Matthew F. Howard	Date: 04-12-02 Time: 08:50
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:
Rec'd temp. ~~08:50~~ 3°C MFH 04-12-02
Custody seals intact
Fedex# 827069095376
MFH. 04-12-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		Ph2
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		Ph12
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		

H2D120107

IT CORPORATION

A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04112002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3034	PBOW-02-GW-IT-AA3-BEDGW-001-CB3034-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3034	PBOW-02-GW-IT-AA3-BEDGW-001-CB3034-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3034	PBOW-02-GW-IT-AA3-BEDGW-001-CB3034-48-48	10 APR 2002	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3034	PBOW-02-GW-IT-AA3-BEDGW-001-CB3034-48-48	10 APR 2002	17:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3034	PBOW-02-GW-IT-AA3-BEDGW-001-CB3034-48-48	10 APR 2002	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB5016	PBOW-02-BW-FIELDQC-CB5016--	11 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl <pH2	TCL Volatiles by SW-846 8260B	N		

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STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: IT Corp. PROJECT: Plum brook Ordnance wks Lot No.: H2D120107

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: Matthew F. Howard DATE: 04-12-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?			X

2. If custody seals were missing/not intact, was client notified? ___ ___ X

PROJECT MANAGER : pm DATE: 4/15/02

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: _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D120107

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		
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: pm DATE: 4/15/02

HAD120107

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04112002N

Project Number: 825635
Samples Shipment Date: 11 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095387

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ]

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

1. Relinquished By (Signature/Affiliation) D m Dill — Date: 4/11/02 Time: 1800
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) Jenny Stiller — Date: 4-12-02 Time: 9:05

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3014	PBOW-02-GW-PB-BED-MW17-CB3014-39-42	11 APR 2002	11:00	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3033	PBOW-02-GW-IT-AA3-BEDGW-001-CB3033-48-48	10 APR 2002	17:00	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

H2D120107

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04112002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	1 L HDPE	1	None except cool to 4 C	Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3037	PBOW-02-GW-PB-BED-MW16-CB3037-23-25	11 APR 2002	14:50	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

Rec'd by: Jenny Stiller 4-12-02 9:05

H2D120107

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: ~~STL~~ IT 4-12-00 Project: _____ Quote#: _____
Cooler Received on: 4-12-00 Opened on: 4-12-02 by: [signature] (Signature)

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

Cooler [ ] Safe [ ] Foam Box [ ] Client Cooler [X] Other: _____
STL Shipper No#: _____

1. Were custody seals on the outside of the cooler and intact? Yes [X] No [ ]
   If YES, Quantity 2 Location overlid
   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 0.6 °C (see back of form for multiple coolers/temp)
   METHOD: Temperature Vial [X] Between Coolant & Sample Container [ ] Against Bottles [ ]
   COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]
7. Were all the bottles sealed in separate plastic bags? Yes [ ] No [X]
8. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
9. Did all bottle labels and tags agree with the custody papers? Yes [X] No [ ]
10. Were samples at the correct pH? Yes [X] No [ ] NA [ ]
11. Were correct bottles used for the tests indicated? Yes [X] No [ ]
12. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
13. 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	Samples were received under proper custody procedures and without discrepancies.
	SR1B	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 # 112801-H2SO4; Sodium Hydroxide Lot # 102401-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
4. NCM		
	SR4A	NCM has been generated. Refer to Clouseau for details
5. Other Anomalies (see below or back)		

H2D120107

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
CB3014	<2	4-12-02	[illegible]
13033	<2	↓	↓
13037	<2	↓	↓

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

H2D 130124

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002K

Project Number: 825635
Samples Shipment Date: 12 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095343

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [illegible]	Date: 4/12/02 Time: 1800	1. Received By (Signature/Affiliation) David D. Flous	Date: 4-13-02 Time: 0940
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:
Recd temp. 3°C
Custody Seals intact
D.F. 4-13-02
Fedex # 8194 8872 4473

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH<2
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH>12
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	500 mL HDPE	1	NaOH >pH2	Total Cyanide by 9010A	N		pH>12

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H2D130124

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH <2
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	1 L Amb. Glass	1	None except cool to 4°C	Nitroaromatics by SW-846 8330	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	1 L Amb. Glass	2	None cool to 4°C	TCL Semivolatiles by SW-846 8270C	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3<pH 2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH<2
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3 <pH2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3 < pH 2	TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	40 mL GVIAL,SEP	3	HCL <pH2	TCL Volatiles by SW-846 8260B	N		
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	500 mL HDPE	1	NaOH >pH 12	Total Cyanide by 9010A	N		pH>12
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	1 L Amb. Glass	2	None cool to 4°C	TCL Semivolatiles by SW-846 8270C	N		
CB3038-MSD	PBOW-02-GW-MK-MW17-CB3038-MSD-0-0	12 APR 2002	13:05	1 L Amb. Glass	1	None cool to 4°C	Nitroaromatics by SW-846 8330	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH<2
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH>12
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH<2
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH>12
CB3046	PBOW-02-GW-MK-MW17-CB3046-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3, <pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH<2
CB3046	PBOW-02-GW-MK-MW17-CB3046-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3, < pH<2	TAL Metals by SW-846 6010B/7470A in water	N		↓
CB3046	PBOW-02-GW-MK-MW17-CB3046-0-0	12 APR 2002	13:05	1 L Amb. Glass	1	None, cool to 4°C	Nitroaromatics by SW-846 8330	N		
CB3046	PBOW-02-GW-MK-MW17-CB3046-0-0	12 APR 2002	13:05	40 mL GVIAL,SEP	3	None, cool to 4°C	TCL Volatiles by SW-846 8260B	N		
CB3046	PBOW-02-GW-MK-MW17-CB3046-0-0	12 APR 2002	13:05	1 L Amb. Glass	2	None cool to 4°C	TCL Semivolatiles by SW-846 8270C	N		
CB5001	PBOW-02-BW-FIELDQC-CB5001-0-1	12 APR 2002	10:45	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in	N		pH 6 preserved to pH<2 by D. FLORES with HNO3

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H2D130124

IT CORPORATION

A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							water			
CB5001	PBOW-02-BW-FIELDQC-CB5001-0-1	12 APR 2002	10:45	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB5001	PBOW-02-BW-FIELDQC-CB5001-0-1	12 APR 2002	10:45	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB5001	PBOW-02-BW-FIELDQC-CB5001-0-1	12 APR 2002	10:45	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5018	PBOW-02-BW-FIELDQC-CB5018-0-0	12 APR 2002	18:00	40 mL GVIAL,SEP	3	HCL < pH 2	TCL Volatiles by SW-846 8260B	N		

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: IT PROJECT: PLUM BROOK Lot No.: HZD130124

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

	YES	NO	NA
1. Sample Receipt:			
a. Do sample container labels match COC? (IDs, Dates, Times) GMA 4-16-02	✓	✓	—
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)? DF 4-13-02	—	✓	—
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: David D. Flores DATE: 4-13-02

TO BE COMPLETED BY PROJECT MANAGER :

	YES	NO	NA
1. Project manager "Sample Greet":			
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ?	—	—	X
2. If custody seals were missing/not intact, was client notified?	—	—	X

PROJECT MANAGER : jm DATE: 4/18/02

	Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
X	CB5001	6010	4e	pH 6 Preserved in lab with HNO3 to pH<2 by D. Flores
X	CB3038	T+D METALS	7E	ALL BOTTLES LABELED AS NON FILTERED
X	CB3046	" "	"	" " "
**	CB3040	T+D 6010, 8330, 8260, 8270, 9010	7E	LABEL SHOWS 4-10-02 AS COLLECTION use label DATE, COC LIST 4-12-02

** 4/17/02 phone V Flores

☒ Client informed on 4/16/02 by Cenfept. Person contacted: V Flores, M McMeyer

** ☒ Noted actions in comments section above.

☒ No action necessary; process as is.

Project Manager: jm Date: 4/18/02

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: pH 6 Preserved in LAB with HNO3 to pH<2 by D. FLORES
	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): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D130124

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA
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		
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: [signature] DATE: 4/15/02

✓ The Knoxville CUR needs to be corrected to note discrepancy between collection date on label and COC.
The collection date for the Knoxville parameters for CB3040 should be 4/10/02; the collection date/time for wet chem (except nitrate + turbidity) should be 4/11/02 @ 7:55; the collection date/time for turbidity and nitrate should be 4/12/02 @ 1045. Please delete and relog AKD 4-15-02

H2D130124

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002N

Page 1 of 2

Project Number: 825635
Samples Shipment Date: 12 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton
Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095402

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) D M Dill	Date: 4/12/02 Time: 1800	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3038	PBOW-02-GW-MK-MW17-CB3038-8-8	12 APR 2002	13:05	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3038-MS	PBOW-02-GW-MK-MW17-CB3038-MS-0-0	12 APR 2002	13:05	250 mL HDPE	1	HNO3<pH 2	Hardness by 200.7	N		

H2D130124

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3036-MS	PBOW-02-GW-MK-MW17-CB3036-MS-0-0	12 APR 2002	13:05	1 L HDPE	1	None, cool to 4°C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3036-MSD	PBOW-02-GW-MK-MW17-CB3036-MSD-0-0	12 APR 2002	13:05	1 L HDPE	1	None, cool to 4°C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3036-MSD	PBOW-02-GW-MK-MW17-CB3036-MSD-0-0	12 APR 2002	13:05	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3036-MSD	PBOW-02-GW-MK-MW17-CB3036-MSD-0-0	12 APR 2002	13:05	40 mL GVIAL,SEP	3	H2SO4 < pH 2	Total Organic Carbon by SW9060	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3039	PBOW-02-GW-IT-MNTA-BEDGW-001-CB3039-54-5	12 APR 2002	09:50	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, ~~Nitrate by E353.2~~, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, ~~Turbidity by 180.1~~	N		
CB3040	PBOW-02-GW-PB-BED-MW23-CB3040-71-71	12 APR 2002	08:25	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

This sample should be used for turbidity (180.1) and Nitrate (E353.2).

H2D130124

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: IT CORP Project: Quote#:
Cooler Received on: 4-13-02 Opened on: 4-13-02 by: Anne Sanders (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 and intact? Yes ☑ No ☐
   If YES, Quantity 1 Location Overlid
   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 10.5 °C (see back of form for multiple coolers/temp)
   METHOD: Temperature Vial ☑ Between Coolant & Sample Container ☐ Against Bottles ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Were all the bottles sealed in separate plastic bags? Yes ☑ No ☐
8. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
9. Did all bottle labels and tags agree with the custody papers? Yes ☐ No ☑
10. Were samples at the correct pH? Yes ☑ No ☐ NA ☐
11. Were correct bottles used for the tests indicated? Yes ☑ No ☐
12. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
13. 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	Samples were received under proper custody procedures and without discrepancies.
✓	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred Rec. 1 hydrolysis bottle 083038 @ 1041 4-11-02 Not on ~~sec~~ -COC
	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 # 112801-H2SO4; Sodium Hydroxide Lot # 103101-NaOH; Hydrochloric Acid Lot # 041400-HCl; Sodium Hydroxide and Zinc Acetate Lot # 030801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. NCM	
	SR4A	NCM has been generated. Refer to Clouseau for details
	5. Other Anomalies (see below or back)	

H2D130124

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
CB33038	<2 <2 <2	4-13-02	AMS
39	<2		
40	<2		
CB33038 @1041	<2		

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

SET 2

CB003 Sample Data Summary **1**

Sample Receipt Documentation **120**

Volatiles **129**
- Raw Sample Data 130
- Standards Data 240
- Raw QC Data 341
- Miscellaneous Data 394

Semivolatiles **400**
- Raw Sample Data 401
- Standards Data 499
- Raw QC Data 604
- Miscellaneous Data 662

GRO **671**
- Sample Information 672
- QC Summary 680
- Sample Data 685
- Standards Data 689
- Raw QC Data 722

DRO **732**
- Sample Information 733
- QC Summary 739
- Sample Data 745
- Standards Data 751
- Raw QC Data 828

Explosives **849**
- Raw Sample Data 850
- Standards Data 867
- Raw QC Data 939
- Miscellaneous Data 947

Metals **952**
- QC Summary 953
- Quality Control Results SuperTrace ICP 972
- Quality Control Results Mercury 992
- Raw Data SuperTrace ICP 1008

Raw Data Mercury 1151
Miscellaneous Data 1175

Wet Chemistry 1191
Sample Summary 1192
QC Summary 1197
Raw Data 1206
Miscellaneous Data 1439

Sample Receipt Documentation 1446

Total Number of Pages 1454

SEVERN
TRENT
SERVICES

STL Knoxville
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ANALYTICAL REPORT

PBOW
SDG #: CB003

Maureen McMyler

IT Corporation - Knoxville
312 Directors Drive
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 22, 2002

ANALYTICAL METHODS SUMMARY

CB003

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Cyanide, Total	SW846 9012A
Extractable Petroleum Hydrocarbons	SW846 8015B
Filterable Residue (TDS)	MCAWW 160.1
Ignitability	SW846 1020A
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
Volatile Petroleum Hydrocarbons	SW846 8015B

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

CB003 : H2D160153

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXX47	001	BC5019	04/15/02	18:00
EXX5E	002	CB3041	04/15/02	12:40
EXX5L	003	CB3042	04/15/02	09:45
EXX5Q	004	CB3043	04/15/02	10:30
EXX5X	005	CB3044	04/15/02	11:25
EXX6A	007	CB3049	04/15/02	16:00
EXX6F	008	CB3041	04/15/02	12:40
EXX6H	009	CB3042	04/15/02	09:45
EXX6K	010	CB3043	04/15/02	10:30
EXX6M	011	CB3044	04/15/02	11:25

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
CB003

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

The metals portion of sample CB3044 was received at pH 7. The sample was preserved to pH 2 by laboratory personnel.

One of two semivolatile containers for sample CB3044 was received broken.

Sample CB3049 was listed as a water sample on the chain of custody, however, it was an oil sample.

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 106.2), Hardness (MCAAW 130.2), 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).

The following analyses were performed by STL Austin Laboratory, 14046 Summit Dr, Austin TX, 78728: Diesel Range Organics and Gasoline Range Organics (SW846 8015B), and FlashPoint (SW846 1020A).

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
CB003

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

Samples CB3049 and CB3041 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

Sample CB3044 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.

The pH of sample CB3044 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.

Semivolatiles

The recoveries of the acidic surrogates and acidic analytes for the laboratory control sample/ laboratory control sample duplicate of batch 2107141 were outside QC limits. However, re-extraction and reanalysis of sample CB3044 was not possible due to insufficient sample volume.

Explosives

Due to sample matrix interferences, estimated results below the reporting limit were not reported for several analytes for samples CB3041 and CB3044. The result was qualified with an "I" flag to indicate the presence of matrix interferences.

The following samples were reported with elevated reporting limits for one or more analytes due to sample matrix interferences: CB3041 and CB3044. The affected analytes are flagged on the sample report.

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
CB003

Metals

The serial dilution of sample CB3042 was outside control limits for potassium and zinc for preparation batch 2109142 and 2109144 due to physical or chemical matrix interferences.

Wet Chemistry

The batch matrix spike/matrix spike duplicate recoveries were outside control limits for cyanide. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike results are, therefore, attributed to matrix effects.

Samples CB3041 and CB3044 and the method standards were treated for sulfide prior to distillation.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: BC5019

GC/MS Volatiles

Lot-Sample #...: H2D160153-001 **Work Order #...:** EXX471AA **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.85 J,B**	**2.0**	**ug/L**
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	95	(80 - 120)
Bromofluorobenzene	96	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: BC5019

GC/MS Volatiles

Lot-Sample #...: H2D160153-001 Work Order #...: EXX471AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

GC/MS Volatiles

Lot-Sample #...: H2D160153-002 **Work Order #...:** EXX5E1A4 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	**31 J,B**	**40**	**ug/L**
Acetone	**87 J**	**200**	**ug/L**
Carbon disulfide	**3.1 J**	**20**	**ug/L**
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	ND	20	ug/L
1,2-Dichloroethene (total)	ND	20	ug/L
Chloroform	ND	20	ug/L
1,2-Dichloroethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	ND	20	ug/L
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	**600**	**20**	**ug/L**
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L
Toluene	**460**	**20**	**ug/L**
Chlorobenzene	ND	20	ug/L
Ethylbenzene	**130**	**20**	**ug/L**
Styrene	ND	20	ug/L
Xylenes (total)	**880**	**20**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	93	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

GC/MS Volatiles

Lot-Sample #...: H2D160153-002 Work Order #...: EXX5E1A4 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

GC/MS Volatiles

Lot-Sample #...: H2D160153-003 **Work Order #...:** EXX5L1AF **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.43 J,B**	**2.0**	**ug/L**
Acetone	**6.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(80 - 120)
1,2-Dichloroethane-d4	104	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	93	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

GC/MS Volatiles

Lot-Sample #...: H2D160153-003 Work Order #...: EXX5L1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

GC/MS Volatiles

Lot-Sample #...: H2D160153-004 **Work Order #...:** EXX5Q1AF **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	**0.32 J,B**	**2.0**	**ug/L**
Acetone	**1.7 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	103	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	95	(72 - 135)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

GC/MS Volatiles

Lot-Sample #...: H2D160153-004 Work Order #...: EXX5Q1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

GC/MS Volatiles

Lot-Sample #...: H2D160153-005 **Work Order #...:** EXX5X1AF **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 100 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	200	ug/L
Bromomethane	ND	200	ug/L
Vinyl chloride	ND	100	ug/L
Chloroethane	ND	200	ug/L
Methylene chloride	**170 J,B**	**200**	**ug/L**
Acetone	**290 J**	**1000**	**ug/L**
Carbon disulfide	ND	100	ug/L
1,1-Dichloroethene	ND	100	ug/L
1,1-Dichloroethane	ND	100	ug/L
1,2-Dichloroethene (total)	ND	100	ug/L
Chloroform	ND	100	ug/L
1,2-Dichloroethane	ND	100	ug/L
2-Butanone	ND	500	ug/L
1,1,1-Trichloroethane	ND	100	ug/L
Carbon tetrachloride	ND	100	ug/L
Bromodichloromethane	ND	100	ug/L
1,2-Dichloropropane	ND	100	ug/L
cis-1,3-Dichloropropene	ND	100	ug/L
Trichloroethene	ND	100	ug/L
Dibromochloromethane	ND	100	ug/L
1,1,2-Trichloroethane	ND	100	ug/L
Benzene	**490**	**100**	**ug/L**
trans-1,3-Dichloropropene	ND	100	ug/L
Bromoform	ND	100	ug/L
4-Methyl-2-pentanone	ND	500	ug/L
2-Hexanone	ND	500	ug/L
Tetrachloroethene	ND	100	ug/L
1,1,2,2-Tetrachloroethane	ND	100	ug/L
Toluene	**630**	**100**	**ug/L**
Chlorobenzene	ND	100	ug/L
Ethylbenzene	**210**	**100**	**ug/L**
Styrene	ND	100	ug/L
Xylenes (total)	**1200**	**100**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	102	(80 - 120)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

GC/MS Volatiles

Lot-Sample #...: H2D160153-005 Work Order #...: EXX5X1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3049

GC/MS Volatiles

Lot-Sample #...: H2D160153-007 **Work Order #...:** EXX6A1AD **Matrix.....:** WASTE
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107398
Dilution Factor: 100
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	**37 J,B**	**320**	**mg/kg**
Bromomethane	**65 J,B**	**320**	**mg/kg**
Vinyl chloride	ND	320	mg/kg
Chloroethane	ND	320	mg/kg
Methylene chloride	**67 J,B**	**150**	**mg/kg**
Acetone	**760 B**	**630**	**mg/kg**
Carbon disulfide	ND	150	mg/kg
1,1-Dichloroethene	ND	150	mg/kg
1,1-Dichloroethane	ND	150	mg/kg
1,2-Dichloroethene (total)	ND	150	mg/kg
Chloroform	ND	150	mg/kg
1,2-Dichloroethane	ND	150	mg/kg
2-Butanone	ND	630	mg/kg
1,1,1-Trichloroethane	ND	150	mg/kg
Carbon tetrachloride	ND	150	mg/kg
Bromodichloromethane	ND	150	mg/kg
1,2-Dichloropropane	ND	150	mg/kg
cis-1,3-Dichloropropene	ND	150	mg/kg
Trichloroethene	ND	150	mg/kg
Dibromochloromethane	ND	150	mg/kg
1,1,2-Trichloroethane	ND	150	mg/kg
Benzene	**91 J**	**150**	**mg/kg**
trans-1,3-Dichloropropene	ND	150	mg/kg
Bromoform	ND	150	mg/kg
4-Methyl-2-pentanone	ND	630	mg/kg
2-Hexanone	ND	630	mg/kg
Tetrachloroethene	ND	150	mg/kg
1,1,2,2-Tetrachloroethane	ND	150	mg/kg
Toluene	**600**	**150**	**mg/kg**
Chlorobenzene	ND	150	mg/kg
Ethylbenzene	**690**	**150**	**mg/kg**
Styrene	ND	150	mg/kg
Xylenes (total)	**4000 B**	**150**	**mg/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	NC,DIL	(62 - 133)
1,2-Dichloroethane-d4	NC,DIL	(67 - 131)
Toluene-d8	NC,DIL	(72 - 129)
Bromofluorobenzene	NC,DIL	(64 - 148)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3049

GC/MS Volatiles

Lot-Sample #...: H2D160153-007 Work Order #...: EXX6A1AD Matrix.....: WASTE

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB003 **Work Order #...:** EX2QG1AA **Matrix.....:** WASTE
MB Lot-Sample #: H2D170000-398

Prep Date.....: 04/17/02
Analysis Date..: 04/17/02 **Prep Batch #...:** 2107398
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	**0.57 J**	**3.2**	**mg/kg**	**SW846 8260B**
Bromomethane	**0.32 J**	**3.2**	**mg/kg**	**SW846 8260B**
Vinyl chloride	ND	3.2	mg/kg	SW846 8260B
Chloroethane	ND	3.2	mg/kg	SW846 8260B
Methylene chloride	**0.57 J**	**1.5**	**mg/kg**	**SW846 8260B**
Acetone	**2.5 J**	**6.3**	**mg/kg**	**SW846 8260B**
Carbon disulfide	ND	1.5	mg/kg	SW846 8260B
1,1-Dichloroethene	ND	1.5	mg/kg	SW846 8260B
1,1-Dichloroethane	ND	1.5	mg/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	1.5	mg/kg	SW846 8260B
Chloroform	ND	1.5	mg/kg	SW846 8260B
1,2-Dichloroethane	ND	1.5	mg/kg	SW846 8260B
2-Butanone	**0.53 J**	**6.3**	**mg/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.5	mg/kg	SW846 8260B
Carbon tetrachloride	ND	1.5	mg/kg	SW846 8260B
Bromodichloromethane	ND	1.5	mg/kg	SW846 8260B
1,2-Dichloropropane	ND	1.5	mg/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	1.5	mg/kg	SW846 8260B
Trichloroethene	ND	1.5	mg/kg	SW846 8260B
Dibromochloromethane	ND	1.5	mg/kg	SW846 8260B
1,1,2-Trichloroethane	ND	1.5	mg/kg	SW846 8260B
Benzene	ND	1.5	mg/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	1.5	mg/kg	SW846 8260B
Bromoform	ND	1.5	mg/kg	SW846 8260B
4-Methyl-2-pentanone	ND	6.3	mg/kg	SW846 8260B
2-Hexanone	**0.62 J**	**6.3**	**mg/kg**	**SW846 8260B**
Tetrachloroethene	ND	1.5	mg/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.5	mg/kg	SW846 8260B
Toluene	ND	1.5	mg/kg	SW846 8260B
Chlorobenzene	ND	1.5	mg/kg	SW846 8260B
Ethylbenzene	ND	1.5	mg/kg	SW846 8260B
Styrene	ND	1.5	mg/kg	SW846 8260B
Xylenes (total)	**0.15 J**	**1.5**	**mg/kg**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(62 - 133)
1,2-Dichloroethane-d4	84	(67 - 131)
Toluene-d8	99	(72 - 129)
Bromofluorobenzene	103	(64 - 148)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB003 Work Order #...: EX2QG1AA Matrix.....: WASTE

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 #...: CB003 **Work Order #...:** EX2QG1AC **Matrix.....:** WASTE
LCS Lot-Sample#: H2D170000-398
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107398
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**104**	**(57 - 128)**	**SW846 8260B**
Trichloroethene	**99**	**(80 - 129)**	**SW846 8260B**
Benzene	**99**	**(76 - 128)**	**SW846 8260B**
Toluene	**105**	**(75 - 131)**	**SW846 8260B**
Chlorobenzene	**100**	**(80 - 129)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(62 - 133)
1,2-Dichloroethane-d4	85	(67 - 131)
Toluene-d8	96	(72 - 129)
Bromofluorobenzene	98	(64 - 148)

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 #...: CB003 **Work Order #...:** EX2QG1AC **Matrix.....:** WASTE
LCS Lot-Sample#: H2D170000-398
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107398
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.4**	**mg/kg**	**104**	**SW846 8260B**
Trichloroethene	**10.0**	**9.86**	**mg/kg**	**99**	**SW846 8260B**
Benzene	**10.0**	**9.94**	**mg/kg**	**99**	**SW846 8260B**
Toluene	**10.0**	**10.5**	**mg/kg**	**105**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.0**	**mg/kg**	**100**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(62 - 133)
1,2-Dichloroethane-d4	85	(67 - 131)
Toluene-d8	96	(72 - 129)
Bromofluorobenzene	98	(64 - 148)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB003 **Work Order #...:** EX6MD1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D190000-251
Prep Date.....: 04/19/02
Analysis Date..: 04/19/02 **Prep Batch #...:** 2109251
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	**0.26 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)	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	ND	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	ND	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	98	(80 - 120)
1,2-Dichloroethane-d4	101	(80 - 120)
Toluene-d8	97	(80 - 120)
Bromofluorobenzene	94	(72 - 135)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: CB003 Work Order #...: EX6MD1AA 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 #...: CB003 **Work Order #...:** EX6MD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-251 EX6MD1AD-LCSD
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**103**	**(69 - 120)**			**SW846 8260B**
	103	**(69 - 120)**	**0.24**	**(0-26)**	**SW846 8260B**
Trichloroethene	**109**	**(76 - 120)**			**SW846 8260B**
	106	**(76 - 120)**	**2.7**	**(0-17)**	**SW846 8260B**
Benzene	**105**	**(76 - 120)**			**SW846 8260B**
	104	**(76 - 120)**	**0.86**	**(0-19)**	**SW846 8260B**
Toluene	**104**	**(77 - 120)**			**SW846 8260B**
	103	**(77 - 120)**	**0.67**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**102**	**(75 - 120)**			**SW846 8260B**
	102	**(75 - 120)**	**0.34**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	99	(80 - 120)
1,2-Dichloroethane-d4	97	(80 - 120)
	101	(80 - 120)
Toluene-d8	96	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	93	(72 - 135)
	93	(72 - 135)

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 #...: CB003 **Work Order #...:** EX6MD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-251 EX6MD1AD-LCSD
Prep Date.....: 04/19/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2109251
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	10.0	**10.3**	**ug/L**	**103**	**0.24**	**SW846 8260B**
Trichloroethene	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	10.0	**10.6**	**ug/L**	**106**	**2.7**	**SW846 8260B**
Benzene	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	10.0	**10.4**	**ug/L**	**104**	**0.86**	**SW846 8260B**
Toluene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	10.0	**10.3**	**ug/L**	**103**	**0.67**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	10.0	**10.2**	**ug/L**	**102**	**0.34**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	99	(80 - 120)
1,2-Dichloroethane-d4	97	(80 - 120)
	101	(80 - 120)
Toluene-d8	96	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	93	(72 - 135)
	93	(72 - 135)

NOTE(S):

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

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-002 **Work Order #...:** EXX5E2A5 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2109277
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**15**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**3.9 J**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**5.6 J**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**6.8 J**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**25**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**27**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-002 **Work Order #...:** EXX5E2A5 **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(29 - 110)
Phenol-d5	76	(41 - 115)
Nitrobenzene-d5	81	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	106	(31 - 138)
Terphenyl-d14	90	(36 - 134)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-002 Work Order #...: EXX5E2A5 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-003 **Work Order #...:** EXX5L2AG **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2109277
Dilution Factor: 1 **Method.....:** SW846 8270C

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

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-003 **Work Order #...:** EXX5L2AG **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(29 - 110)
Phenol-d5	83	(41 - 115)
Nitrobenzene-d5	93	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
2,4,6-Tribromophenol	85	(31 - 138)
Terphenyl-d14	93	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-004 **Work Order #...:** EXX5Q2AG **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/19/02 **Analysis Date..:** 04/22/02
Prep Batch #...: 2109277
Dilution Factor: 1 **Method.....:** SW846 8270C

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

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-004 Work Order #...: EXX5Q2AG Matrix.....: WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(29 - 110)
Phenol-d5	67	(41 - 115)
Nitrobenzene-d5	75	(46 - 117)
2-Fluorobiphenyl	73	(44 - 116)
2,4,6-Tribromophenol	79	(31 - 138)
Terphenyl-d14	73	(36 - 134)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-005 **Work Order #...:** EXX5X1AG **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/25/02
Prep Batch #...: 2107141
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**27**	**10**	**ug/L**
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**12**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	**15**	**10**	**ug/L**
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	**18**	**10**	**ug/L**
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Naphthalene	**39**	**10**	**ug/L**
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	**47**	**10**	**ug/L**
Hexachlorocyclopenta-diene	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-005 **Work Order #...:** EXX5X1AG **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	**1.9 J**	**10**	**ug/L**
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	**3.4 J**	**10**	**ug/L**
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	**0.62 J**	**10**	**ug/L**
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	66	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
2,4,6-Tribromophenol	94	(31 - 138)
Terphenyl-d14	76	(36 - 134)

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

GC/MS Semivolatiles

Lot-Sample #...: H2D160153-005 Work Order #...: EXX5X1AG Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AA **Matrix.....:** WATER
MB Lot-Sample #: H2D170000-141

Prep Date.....: 04/17/02
Analysis Date..: 04/19/02 **Prep Batch #...:** 2107141
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AA **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	53	(29 - 110)
Phenol-d5	65	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	82	(44 - 116)
2,4,6-Tribromophenol	61	(31 - 138)
Terphenyl-d14	83	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AA **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 #...: CB003 **Work Order #...:** EX1L11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-141 EX1L11AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2107141
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	3.0 a	(62 - 103)			SW846 8270C
	46 a,p	(62 - 103)	175	(0-41)	SW846 8270C
2-Chlorophenol	1.5 a	(63 - 103)			SW846 8270C
	31 a,p	(63 - 103)	182	(0-43)	SW846 8270C
1,4-Dichlorobenzene	76	(65 - 102)			SW846 8270C
	85	(65 - 102)	11	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	82	(65 - 108)			SW846 8270C
	88	(65 - 108)	6.3	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	79	(67 - 104)			SW846 8270C
	86	(67 - 104)	8.0	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	13 a	(65 - 108)			SW846 8270C
	74 p	(65 - 108)	140	(0-29)	SW846 8270C
Acenaphthene	81	(59 - 100)			SW846 8270C
	86	(59 - 100)	5.9	(0-26)	SW846 8270C
4-Nitrophenol	2.4 a	(50 - 122)			SW846 8270C
	3.0 a	(50 - 122)	19	(0-50)	SW846 8270C
2,4-Dinitrotoluene	92	(69 - 128)			SW846 8270C
	102	(69 - 128)	10	(0-25)	SW846 8270C
Pentachlorophenol	0.0	(64 - 114)			SW846 8270C
	0.0	(64 - 114)	0.0	(0-37)	SW846 8270C
Pyrene	84	(52 - 119)			SW846 8270C
	90	(52 - 119)	7.6	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.0	(29 - 110)
	13 *	(29 - 110)
Phenol-d5	2.8 *	(41 - 115)
	45	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
	87	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
	94	(44 - 116)
2,4,6-Tribromophenol	0.0	(31 - 138)
	12 *	(31 - 138)
Terphenyl-d14	92	(36 - 134)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-141 EX1L11AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	101	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-141 EX1L11AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/19/02
Prep Batch #...: 2107141
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	3.04 a	ug/L	3.0		SW846 8270C
	100	46.4 a,p	ug/L	46	175	SW846 8270C
2-Chlorophenol	100	1.49 a	ug/L	1.5		SW846 8270C
	100	31.2 a,p	ug/L	31	182	SW846 8270C
1,4-Dichlorobenzene	100	76.2	ug/L	76		SW846 8270C
	100	85.4	ug/L	85	11	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	82.4	ug/L	82		SW846 8270C
	100	87.8	ug/L	88	6.3	SW846 8270C
1,2,4-Trichloro-benzene	100	78.9	ug/L	79		SW846 8270C
	100	85.5	ug/L	86	8.0	SW846 8270C
4-Chloro-3-methylphenol	100	13.2 a	ug/L	13		SW846 8270C
	100	74.5 p	ug/L	74	140	SW846 8270C
Acenaphthene	100	81.0	ug/L	81		SW846 8270C
	100	85.9	ug/L	86	5.9	SW846 8270C
4-Nitrophenol	100	2.44 a	ug/L	2.4		SW846 8270C
	100	2.95 a	ug/L	3.0	19	SW846 8270C
2,4-Dinitrotoluene	100	92.2	ug/L	92		SW846 8270C
	100	102	ug/L	102	10	SW846 8270C
Pentachlorophenol	100		ug/L	0.0		SW846 8270C
	100		ug/L	0.0	0.0	SW846 8270C
Pyrene	100	83.9	ug/L	84		SW846 8270C
	100	90.5	ug/L	90	7.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.0	(29 - 110)
	13 *	(29 - 110)
Phenol-d5	2.8 *	(41 - 115)
	45	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
	87	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
	94	(44 - 116)
2,4,6-Tribromophenol	0.0	(31 - 138)
	12 *	(31 - 138)
Terphenyl-d14	92	(36 - 134)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX1L11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-141 EX1L11AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	101	(36 - 134)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX6TL1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D190000-277
Prep Date.....: 04/19/02
Analysis Date..: 04/24/02 **Prep Batch #...:** 2109277
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX6TL1AA **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	75	(29 - 110)
Phenol-d5	84	(41 - 115)
Nitrobenzene-d5	86	(46 - 117)
2-Fluorobiphenyl	95	(44 - 116)
2,4,6-Tribromophenol	78	(31 - 138)
Terphenyl-d14	99	(36 - 134)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 Work Order #...: EX6TL1AA 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 #...: CB003 **Work Order #...:** EX6TL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-277 EX6TL1AD-LCSD
Prep Date.....: 04/19/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2109277
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	78	(62 - 103)			SW846 8270C
	85	(62 - 103)	8.1	(0-41)	SW846 8270C
2-Chlorophenol	74	(63 - 103)			SW846 8270C
	82	(63 - 103)	9.8	(0-43)	SW846 8270C
1,4-Dichlorobenzene	73	(65 - 102)			SW846 8270C
	78	(65 - 102)	6.6	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	80	(65 - 108)			SW846 8270C
	82	(65 - 108)	2.7	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	76	(67 - 104)			SW846 8270C
	84	(67 - 104)	10	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	88	(65 - 108)			SW846 8270C
	90	(65 - 108)	1.4	(0-29)	SW846 8270C
Acenaphthene	86	(59 - 100)			SW846 8270C
	84	(59 - 100)	2.6	(0-26)	SW846 8270C
4-Nitrophenol	87	(50 - 122)			SW846 8270C
	91	(50 - 122)	4.6	(0-50)	SW846 8270C
2,4-Dinitrotoluene	106	(69 - 128)			SW846 8270C
	108	(69 - 128)	1.9	(0-25)	SW846 8270C
Pentachlorophenol	80	(64 - 114)			SW846 8270C
	86	(64 - 114)	7.1	(0-37)	SW846 8270C
Pyrene	93	(52 - 119)			SW846 8270C
	95	(52 - 119)	1.7	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
	73	(29 - 110)
Phenol-d5	78	(41 - 115)
	82	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
	88	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
	91	(44 - 116)
2,4,6-Tribromophenol	98	(31 - 138)
	90	(31 - 138)
Terphenyl-d14	105	(36 - 134)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX6TL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-277 EX6TL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	105	(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 #...: CB003 **Work Order #...:** EX6TL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-277 EX6TL1AD-LCSD
Prep Date.....: 04/19/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2109277
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	78.3	ug/L	78		SW846 8270C
	100	84.9	ug/L	85	8.1	SW846 8270C
2-Chlorophenol	100	74.0	ug/L	74		SW846 8270C
	100	81.6	ug/L	82	9.8	SW846 8270C
1,4-Dichlorobenzene	100	73.4	ug/L	73		SW846 8270C
	100	78.4	ug/L	78	6.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	80.1	ug/L	80		SW846 8270C
	100	82.3	ug/L	82	2.7	SW846 8270C
1,2,4-Trichloro-benzene	100	75.8	ug/L	76		SW846 8270C
	100	83.8	ug/L	84	10	SW846 8270C
4-Chloro-3-methylphenol	100	88.5	ug/L	88		SW846 8270C
	100	89.8	ug/L	90	1.4	SW846 8270C
Acenaphthene	100	85.7	ug/L	86		SW846 8270C
	100	83.5	ug/L	84	2.6	SW846 8270C
4-Nitrophenol	100	86.9	ug/L	87		SW846 8270C
	100	91.0	ug/L	91	4.6	SW846 8270C
2,4-Dinitrotoluene	100	106	ug/L	106		SW846 8270C
	100	108	ug/L	108	1.9	SW846 8270C
Pentachlorophenol	100	80.2	ug/L	80		SW846 8270C
	100	86.1	ug/L	86	7.1	SW846 8270C
Pyrene	100	93.1	ug/L	93		SW846 8270C
	100	94.7	ug/L	95	1.7	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
	73	(29 - 110)
Phenol-d5	78	(41 - 115)
	82	(41 - 115)
Nitrobenzene-d5	80	(46 - 117)
	88	(46 - 117)
2-Fluorobiphenyl	93	(44 - 116)
	91	(44 - 116)
2,4,6-Tribromophenol	98	(31 - 138)
	90	(31 - 138)
Terphenyl-d14	105	(36 - 134)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: CB003 **Work Order #...:** EX6TL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D190000-277 EX6TL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	105	(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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3049

GC Volatiles

Lot-Sample #...: H2D160153-007 **Work Order #...:** EXX6A1AC **Matrix.....:** WASTE
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/29/02 **Analysis Date..:** 04/29/02
Prep Batch #...: 2120447
Dilution Factor: 952.38
% Moisture.....: **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	**160000000 B**	**9500000**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	NC,DIL	(75 - 125)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: CB003 **Work Order #...:** E0NGR1AA **Matrix.....:** WASTE
MB Lot-Sample #: I2D300000-447

Prep Date.....: 04/29/02
Analysis Date..: 04/29/02 **Prep Batch #...:** 2120447
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	**2300 J**	**10000**	**ug/kg**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 125)

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 Volatiles

Client Lot #...: CB003 **Work Order #...:** E0NGR1AC-LCS **Matrix.....:** WASTE
LCS Lot-Sample#: I2D300000-447 E0NGR1AD-LCSD
Prep Date.....: 04/29/02 **Analysis Date..:** 04/29/02
Prep Batch #...: 2120447
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**106**	**(70 - 134)**			**SW846 8015B**
	109	**(70 - 134)**	**2.9**	**(0-30)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 125)
	104	(75 - 125)

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 Volatiles

Client Lot #...: CB003 **Work Order #...:** E0NGR1AC-LCS **Matrix.....:** WASTE
LCS Lot-Sample#: I2D300000-447 E0NGR1AD-LCSD
Prep Date.....: 04/29/02 **Analysis Date..:** 04/29/02
Prep Batch #...: 2120447
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Gasoline Range Organics	**100000**	**106000**	**ug/kg**	**106**		**SW846 8015B**
	100000	**109000**	**ug/kg**	**109**	**2.9**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 125)
	104	(75 - 125)

NOTE(S):

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

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3049

GC Semivolatiles

Lot-Sample #...: H2D160153-007 **Work Order #...:** EXX6A1AA **Matrix.....:** WASTE
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/23/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2113257
Dilution Factor: 10
% Moisture.....: **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**36000**	**5000**	**mg/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	122	(40 - 144)
Dotriacontane	155	(42 - 159)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: CB003 Work Order #...: E0AA51AA Matrix.....: WASTE
MB Lot-Sample #: I2D230000-257
Prep Date.....: 04/23/02
Analysis Date..: 04/24/02 Prep Batch #...: 2113257
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	500	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	115	(40 - 144)
Dotriacontane	93	(42 - 159)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: CB003 **Work Order #...:** E0AA51AC **Matrix.....:** WASTE
LCS Lot-Sample#: I2D230000-257
Prep Date.....: 04/23/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2113257
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Diesel Range Organics	**99**	**(26 - 148)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	118	(40 - 144)
Dotriacontane	79	(42 - 159)

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 Semivolatiles

Client Lot #...: CB003 **Work Order #...:** E0AA51AC **Matrix.....:** WASTE
LCS Lot-Sample#: I2D230000-257
Prep Date.....: 04/23/02 **Analysis Date..:** 04/24/02
Prep Batch #...: 2113257
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Diesel Range Organics	**1000**	**988**	**mg/kg**	**99**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	118	(40 - 144)
Dotriacontane	79	(42 - 159)

NOTE(S):

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

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

HPLC

Lot-Sample #...: H2D160153-002 **Work Order #...:** EXX5E1A3 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/17/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND I	0.50	ug/L
RDX	**0.51**	**0.50**	**ug/L**
1,3,5-Trinitrobenzene	ND G	1.5	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	**0.35**	**0.20**	**ug/L**
2,4,6-Trinitrotoluene	**1.3**	**0.20**	**ug/L**
4-Amino-2,6-dinitrotoluene	**0.97**	**0.20**	**ug/L**
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND G	2.1	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(53 - 133)

NOTE(S):

I Matrix interference.

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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

HPLC

Lot-Sample #...: H2D160153-003 **Work Order #...:** EXX5L1AE **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

HPLC

Lot-Sample #...: H2D160153-004 **Work Order #...:** EXX5Q1AE **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 25 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND	12	ug/L
RDX	ND	12	ug/L
1,3,5-Trinitrobenzene	ND	5.0	ug/L
1,3-Dinitrobenzene	ND	5.0	ug/L
Tetryl	ND	5.0	ug/L
Nitrobenzene	ND	5.0	ug/L
2,4,6-Trinitrotoluene	**110**	**5.0**	**ug/L**
4-Amino-2,6-dinitrotoluene	**16**	**5.0**	**ug/L**
2-Amino-4,6-dinitrotoluene	**46**	**5.0**	**ug/L**
2,6-Dinitrotoluene	ND	5.0	ug/L
2,4-Dinitrotoluene	ND	5.0	ug/L
2-Nitrotoluene	ND	5.0	ug/L
4-Nitrotoluene	ND	5.0	ug/L
3-Nitrotoluene	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(53 - 133)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

HPLC

Lot-Sample #...: H2D160153-005 **Work Order #...:** EXX5X1AE **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
HMX	ND I	0.50	ug/L
RDX	ND G	2.6	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
Tetryl	ND	0.20	ug/L
Nitrobenzene	ND G	0.23	ug/L
2,4,6-Trinitrotoluene	ND I	0.20	ug/L
4-Amino-2,6-dinitrotoluene	**1.3**	**0.20**	**ug/L**
2-Amino-4,6-dinitrotoluene	**0.55**	**0.20**	**ug/L**
2,6-Dinitrotoluene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
4-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(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 #...: CB003 **Work Order #...:** EX1LX1AA **Matrix.....:** WATER
MB Lot-Sample #: H2D170000-139

Prep Date.....: 04/17/02
Analysis Date..: 04/18/02 **Prep Batch #...:** 2107139
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	99	(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 #...: CB003 **Work Order #...:** EX1LX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-139 EX1LX1AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**81**	**(68 - 122)**			**SW846 8330**
	95	**(68 - 122)**	**16**	**(0-25)**	**SW846 8330**
RDX	**88**	**(71 - 127)**			**SW846 8330**
	103	**(71 - 127)**	**16**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**84**	**(70 - 124)**			**SW846 8330**
	98	**(70 - 124)**	**16**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**85**	**(72 - 124)**			**SW846 8330**
	100	**(72 - 124)**	**16**	**(0-25)**	**SW846 8330**
Tetryl	**78**	**(68 - 123)**			**SW846 8330**
	94	**(68 - 123)**	**19**	**(0-26)**	**SW846 8330**
Nitrobenzene	**77**	**(60 - 122)**			**SW846 8330**
	90	**(60 - 122)**	**15**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**84**	**(71 - 123)**			**SW846 8330**
	99	**(71 - 123)**	**16**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**80**	**(66 - 122)**			**SW846 8330**
	92	**(66 - 122)**	**14**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**82**	**(65 - 124)**			**SW846 8330**
	94	**(65 - 124)**	**14**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**89**	**(66 - 129)**			**SW846 8330**
	101	**(66 - 129)**	**13**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**86**	**(70 - 125)**			**SW846 8330**
	100	**(70 - 125)**	**15**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**75**	**(54 - 121)**			**SW846 8330**
	83	**(54 - 121)**	**9.9**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**80**	**(59 - 123)**			**SW846 8330**
	87	**(59 - 123)**	**7.8**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**76**	**(58 - 124)**			**SW846 8330**
	85	**(58 - 124)**	**11**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)
	95	(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 #...: CB003 **Work Order #...:** EX1LX1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2D170000-139 EX1LX1AD-LCSD
Prep Date.....: 04/17/02 **Analysis Date..:** 04/18/02
Prep Batch #...: 2107139
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**2.43**	**ug/L**	**81**		**SW846 8330**
	3.00	**2.84**	**ug/L**	**95**	**16**	**SW846 8330**
RDX	**3.00**	**2.64**	**ug/L**	**88**		**SW846 8330**
	3.00	**3.09**	**ug/L**	**103**	**16**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.51**	**ug/L**	**84**		**SW846 8330**
	3.00	**2.95**	**ug/L**	**98**	**16**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.55**	**ug/L**	**85**		**SW846 8330**
	3.00	**2.99**	**ug/L**	**100**	**16**	**SW846 8330**
Tetryl	**3.00**	**2.33**	**ug/L**	**78**		**SW846 8330**
	3.00	**2.81**	**ug/L**	**94**	**19**	**SW846 8330**
Nitrobenzene	**3.00**	**2.32**	**ug/L**	**77**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**15**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.53**	**ug/L**	**84**		**SW846 8330**
	3.00	**2.96**	**ug/L**	**99**	**16**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.41**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.76**	**ug/L**	**92**	**14**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.46**	**ug/L**	**82**		**SW846 8330**
	3.00	**2.82**	**ug/L**	**94**	**14**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.66**	**ug/L**	**89**		**SW846 8330**
	3.00	**3.03**	**ug/L**	**101**	**13**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.59**	**ug/L**	**86**		**SW846 8330**
	3.00	**2.99**	**ug/L**	**100**	**15**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.25**	**ug/L**	**75**		**SW846 8330**
	3.00	**2.48**	**ug/L**	**83**	**9.9**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.41**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.60**	**ug/L**	**87**	**7.8**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.29**	**ug/L**	**76**		**SW846 8330**
	3.00	**2.56**	**ug/L**	**85**	**11**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(53 - 133)
	95	(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

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

TOTAL Metals

Lot-Sample #...: H2D160153-002 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109142						
Aluminum	**74.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AA**
		Dilution Factor: 1		Analysis Time..: 14:23		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AC
		Dilution Factor: 1		Analysis Time..: 14:23		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AD
		Dilution Factor: 1		Analysis Time..: 14:23		
Barium	**856**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AE**
		Dilution Factor: 1		Analysis Time..: 14:23		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AF
		Dilution Factor: 1		Analysis Time..: 14:23		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AG
		Dilution Factor: 1		Analysis Time..: 14:23		
Calcium	**287000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AH**
		Dilution Factor: 1		Analysis Time..: 14:23		
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AJ
		Dilution Factor: 1		Analysis Time..: 14:23		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AK
		Dilution Factor: 1		Analysis Time..: 14:23		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AL
		Dilution Factor: 1		Analysis Time..: 14:23		
Iron	**142**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AM**
		Dilution Factor: 1		Analysis Time..: 14:23		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AN
		Dilution Factor: 1		Analysis Time..: 14:23		
Magnesium	**234000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AP**
		Dilution Factor: 1		Analysis Time..: 14:23		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

TOTAL Metals

Lot-Sample #...: H2D160153-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**7.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AQ**
		Dilution Factor: 1		Analysis Time..: 14:23		
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AR
		Dilution Factor: 1		Analysis Time..: 14:23		
Potassium	**75100**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AT**
		Dilution Factor: 1		Analysis Time..: 14:23		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AU
		Dilution Factor: 1		Analysis Time..: 14:23		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AV
		Dilution Factor: 1		Analysis Time..: 14:23		
Sodium	**705000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5E1AW**
		Dilution Factor: 10		Analysis Time..: 15:15		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1AX
		Dilution Factor: 1		Analysis Time..: 14:23		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1A0
		Dilution Factor: 1		Analysis Time..: 14:23		
Zinc	ND	20.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5E1A1
		Dilution Factor: 1		Analysis Time..: 14:23		
Prep Batch #...: 2111103						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX5E1A2
		Dilution Factor: 1		Analysis Time..: 15:15		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

TOTAL Metals

Lot-Sample #...: H2D160153-003 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109142						
Aluminum	**60.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1AM**
		Dilution Factor: 1		Analysis Time..: 14:28		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AN
		Dilution Factor: 1		Analysis Time..: 14:28		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AP
		Dilution Factor: 1		Analysis Time..: 14:28		
Barium	**56.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1AQ**
		Dilution Factor: 1		Analysis Time..: 14:28		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AR
		Dilution Factor: 1		Analysis Time..: 14:28		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AT
		Dilution Factor: 1		Analysis Time..: 14:28		
Calcium	**174000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1AU**
		Dilution Factor: 1		Analysis Time..: 14:28		
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AV
		Dilution Factor: 1		Analysis Time..: 14:28		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AW
		Dilution Factor: 1		Analysis Time..: 14:28		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AX
		Dilution Factor: 1		Analysis Time..: 14:28		
Iron	**4710**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A0**
		Dilution Factor: 1		Analysis Time..: 14:28		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1A1
		Dilution Factor: 1		Analysis Time..: 14:28		
Magnesium	**45100**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A2**
		Dilution Factor: 1		Analysis Time..: 14:28		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

TOTAL Metals

Lot-Sample #...: H2D160153-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**607**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A3**
		Dilution Factor: 1		Analysis Time..: 14:28		
Nickel	**2.1 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A4**
		Dilution Factor: 1		Analysis Time..: 14:28		
Potassium	**1420 B**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A5**
		Dilution Factor: 1		Analysis Time..: 14:28		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1A6
		Dilution Factor: 1		Analysis Time..: 14:28		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1A7
		Dilution Factor: 1		Analysis Time..: 14:28		
Sodium	**28600**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1A8**
		Dilution Factor: 1		Analysis Time..: 14:28		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1A9
		Dilution Factor: 1		Analysis Time..: 14:28		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5L1AA
		Dilution Factor: 1		Analysis Time..: 14:28		
Zinc	**31.8**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5L1AC**
		Dilution Factor: 1		Analysis Time..: 14:28		
Prep Batch #...: 2111103						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX5L1AD
		Dilution Factor: 1		Analysis Time..: 15:26		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

TOTAL Metals

Lot-Sample #...: H2D160153-004 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109142						
Aluminum	**807**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AM**
		Dilution Factor: 1		Analysis Time..: 14:46		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AN
		Dilution Factor: 1		Analysis Time..: 14:46		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AP
		Dilution Factor: 1		Analysis Time..: 14:46		
Barium	**24.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AQ**
		Dilution Factor: 1		Analysis Time..: 14:46		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AR
		Dilution Factor: 1		Analysis Time..: 14:46		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AT
		Dilution Factor: 1		Analysis Time..: 14:46		
Calcium	**206000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AU**
		Dilution Factor: 1		Analysis Time..: 14:46		
Chromium	**2.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AV**
		Dilution Factor: 1		Analysis Time..: 14:46		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AW
		Dilution Factor: 1		Analysis Time..: 14:46		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1AX
		Dilution Factor: 1		Analysis Time..: 14:46		
Iron	**1700**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A0**
		Dilution Factor: 1		Analysis Time..: 14:46		
Lead	**3.0**	**3.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A1**
		Dilution Factor: 1		Analysis Time..: 14:46		
Magnesium	**35200**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A2**
		Dilution Factor: 1		Analysis Time..: 14:46		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

TOTAL Metals

Lot-Sample #...: H2D160153-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**86.5**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A3**
		Dilution Factor: 1		Analysis Time..: 14:46		
Nickel	**3.9 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A4**
		Dilution Factor: 1		Analysis Time..: 14:46		
Potassium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1A5
		Dilution Factor: 1		Analysis Time..: 14:46		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1A6
		Dilution Factor: 1		Analysis Time..: 14:46		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1A7
		Dilution Factor: 1		Analysis Time..: 14:46		
Sodium	**7210**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1A8**
		Dilution Factor: 1		Analysis Time..: 14:46		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5Q1A9
		Dilution Factor: 1		Analysis Time..: 14:46		
Vanadium	**1.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AA**
		Dilution Factor: 1		Analysis Time..: 14:46		
Zinc	**5.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5Q1AC**
		Dilution Factor: 1		Analysis Time..: 14:46		
Prep Batch #...: 2111103						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX5Q1AD
		Dilution Factor: 1		Analysis Time..: 15:28		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

TOTAL Metals

Lot-Sample #...: H2D160153-005 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109142						
Aluminum	**8300**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AM**
		Dilution Factor: 1		Analysis Time..: 15:01		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5X1AN
		Dilution Factor: 1		Analysis Time..: 15:01		
Arsenic	**17.3**	**10.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AP**
		Dilution Factor: 1		Analysis Time..: 15:01		
Barium	**471**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AQ**
		Dilution Factor: 1		Analysis Time..: 15:01		
Beryllium	**1.1 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AR**
		Dilution Factor: 1		Analysis Time..: 15:01		
Cadmium	**1.2 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AT**
		Dilution Factor: 1		Analysis Time..: 15:01		
Calcium	**1780000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AU**
		Dilution Factor: 10		Analysis Time..: 15:19		
Chromium	**37.2**	**10.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AV**
		Dilution Factor: 1		Analysis Time..: 15:01		
Cobalt	**12.7 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AW**
		Dilution Factor: 1		Analysis Time..: 15:01		
Copper	**53.1**	**25.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AX**
		Dilution Factor: 1		Analysis Time..: 15:01		
Iron	**33400**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A0**
		Dilution Factor: 1		Analysis Time..: 15:01		
Lead	**18.4**	**3.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A1**
		Dilution Factor: 1		Analysis Time..: 15:01		
Magnesium	**408000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A2**
		Dilution Factor: 1		Analysis Time..: 15:01		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

TOTAL Metals

Lot-Sample #...: H2D160153-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**1830**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A3**
		Dilution Factor: 1		Analysis Time..: 15:01		
Nickel	**48.8**	**40.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A4**
		Dilution Factor: 1		Analysis Time..: 15:01		
Potassium	**334000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A5**
		Dilution Factor: 10		Analysis Time..: 15:19		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5X1A6
		Dilution Factor: 1		Analysis Time..: 15:01		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5X1A7
		Dilution Factor: 1		Analysis Time..: 15:01		
Sodium	**1610000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1A8**
		Dilution Factor: 10		Analysis Time..: 15:19		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX5X1A9
		Dilution Factor: 1		Analysis Time..: 15:01		
Vanadium	**36.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AA**
		Dilution Factor: 1		Analysis Time..: 15:01		
Zinc	**425**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX5X1AC**
		Dilution Factor: 1		Analysis Time..: 15:01		
Prep Batch #...: 2111103						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX5X1AD
		Dilution Factor: 1		Analysis Time..: 15:24		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

DISSOLVED Metals

Lot-Sample #...: H2D160153-008 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109144						
Aluminum	**52.4 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AA**
		Dilution Factor: 1		Analysis Time..: 13:43		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AC
		Dilution Factor: 1		Analysis Time..: 13:43		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AD
		Dilution Factor: 1		Analysis Time..: 13:43		
Barium	**855**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AE**
		Dilution Factor: 1		Analysis Time..: 13:43		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AF
		Dilution Factor: 1		Analysis Time..: 13:43		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AG
		Dilution Factor: 1		Analysis Time..: 13:43		
Calcium	**286000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AH**
		Dilution Factor: 1		Analysis Time..: 13:43		
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AJ
		Dilution Factor: 1		Analysis Time..: 13:43		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AK
		Dilution Factor: 1		Analysis Time..: 13:43		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AL
		Dilution Factor: 1		Analysis Time..: 13:43		
Iron	ND	100	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AM
		Dilution Factor: 1		Analysis Time..: 13:43		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AN
		Dilution Factor: 1		Analysis Time..: 13:43		
Magnesium	**236000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AP**
		Dilution Factor: 1		Analysis Time..: 13:43		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

DISSOLVED Metals

Lot-Sample #...: H2D160153-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**6.3 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AQ**
		Dilution Factor: 1		Analysis Time..: 13:43		
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AR
		Dilution Factor: 1		Analysis Time..: 13:43		
Potassium	**75900**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AT**
		Dilution Factor: 1		Analysis Time..: 13:43		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AU
		Dilution Factor: 1		Analysis Time..: 13:43		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AV
		Dilution Factor: 1		Analysis Time..: 13:43		
Sodium	**716000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1AW**
		Dilution Factor: 10		Analysis Time..: 15:06		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1AX
		Dilution Factor: 1		Analysis Time..: 13:43		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6F1A0
		Dilution Factor: 1		Analysis Time..: 13:43		
Zinc	**9.4 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6F1A1**
		Dilution Factor: 1		Analysis Time..: 13:43		
Prep Batch #...: 2111104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX6F1A2
		Dilution Factor: 1		Analysis Time..: 15:47		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

DISSOLVED Metals

Lot-Sample #...: H2D160153-009 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109144						
Aluminum	**36.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AE**
		Dilution Factor: 1		Analysis Time..: 13:47		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AF
		Dilution Factor: 1		Analysis Time..: 13:47		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AG
		Dilution Factor: 1		Analysis Time..: 13:47		
Barium	**56.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AH**
		Dilution Factor: 1		Analysis Time..: 13:47		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AJ
		Dilution Factor: 1		Analysis Time..: 13:47		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AK
		Dilution Factor: 1		Analysis Time..: 13:47		
Calcium	**177000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AL**
		Dilution Factor: 1		Analysis Time..: 13:47		
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AM
		Dilution Factor: 1		Analysis Time..: 13:47		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AN
		Dilution Factor: 1		Analysis Time..: 13:47		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AP
		Dilution Factor: 1		Analysis Time..: 13:47		
Iron	**3270**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AQ**
		Dilution Factor: 1		Analysis Time..: 13:47		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AR
		Dilution Factor: 1		Analysis Time..: 13:47		
Magnesium	**45900**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AT**
		Dilution Factor: 1		Analysis Time..: 13:47		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

DISSOLVED Metals

Lot-Sample #...: H2D160153-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**625**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AU**
		Dilution Factor: 1		Analysis Time..: 13:47		
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AV
		Dilution Factor: 1		Analysis Time..: 13:47		
Potassium	**1450 B**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AW**
		Dilution Factor: 1		Analysis Time..: 13:47		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AX
		Dilution Factor: 1		Analysis Time..: 13:47		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1A0
		Dilution Factor: 1		Analysis Time..: 13:47		
Sodium	**28600**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1A1**
		Dilution Factor: 1		Analysis Time..: 13:47		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1A2
		Dilution Factor: 1		Analysis Time..: 13:47		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6H1AA
		Dilution Factor: 1		Analysis Time..: 13:47		
Zinc	**30.4**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6H1AC**
		Dilution Factor: 1		Analysis Time..: 13:47		

Prep Batch #...: 2111104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX6H1AD
		Dilution Factor: 1		Analysis Time..: 15:45		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

DISSOLVED Metals

Lot-Sample #...: H2D160153-010 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109144						
Aluminum	**35.6 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AE**
		Dilution Factor: 1		Analysis Time..: 14:14		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AF
		Dilution Factor: 1		Analysis Time..: 14:14		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AG
		Dilution Factor: 1		Analysis Time..: 14:14		
Barium	**27.3 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AH**
		Dilution Factor: 1		Analysis Time..: 14:14		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AJ
		Dilution Factor: 1		Analysis Time..: 14:14		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AK
		Dilution Factor: 1		Analysis Time..: 14:14		
Calcium	**226000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AL**
		Dilution Factor: 1		Analysis Time..: 14:14		
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AM
		Dilution Factor: 1		Analysis Time..: 14:14		
Cobalt	**2.4 B**	**50.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AN**
		Dilution Factor: 1		Analysis Time..: 14:14		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AP
		Dilution Factor: 1		Analysis Time..: 14:14		
Iron	ND	100	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AQ
		Dilution Factor: 1		Analysis Time..: 14:14		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AR
		Dilution Factor: 1		Analysis Time..: 14:14		
Magnesium	**42500**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AT**
		Dilution Factor: 1		Analysis Time..: 14:14		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

DISSOLVED Metals

Lot-Sample #...: H2D160153-010 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**80.7**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AU**
		Dilution Factor: 1		Analysis Time..: 14:14		
Nickel	**3.4 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AV**
		Dilution Factor: 1		Analysis Time..: 14:14		
Potassium	**176 B**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AW**
		Dilution Factor: 1		Analysis Time..: 14:14		
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AX
		Dilution Factor: 1		Analysis Time..: 14:14		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1A0
		Dilution Factor: 1		Analysis Time..: 14:14		
Sodium	**11500**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1A1**
		Dilution Factor: 1		Analysis Time..: 14:14		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1A2
		Dilution Factor: 1		Analysis Time..: 14:14		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6K1AA
		Dilution Factor: 1		Analysis Time..: 14:14		
Zinc	**26.8**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6K1AC**
		Dilution Factor: 1		Analysis Time..: 14:14		

Prep Batch #...: 2111104

Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX6K1AD
		Dilution Factor: 1		Analysis Time..: 15:43		

NOTE(S):

B Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

DISSOLVED Metals

Lot-Sample #...: H2D160153-011 **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2109144						
Aluminum	**74.0 B**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AE**
		Dilution Factor: 1		Analysis Time..: 14:19		
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AF
		Dilution Factor: 1		Analysis Time..: 14:19		
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AG
		Dilution Factor: 1		Analysis Time..: 14:19		
Barium	**398**	**200**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AH**
		Dilution Factor: 1		Analysis Time..: 14:19		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AJ
		Dilution Factor: 1		Analysis Time..: 14:19		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AK
		Dilution Factor: 1		Analysis Time..: 14:19		
Calcium	**577000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AL**
		Dilution Factor: 10		Analysis Time..: 15:10		
Chromium	**6.8 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AM**
		Dilution Factor: 1		Analysis Time..: 14:19		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AN
		Dilution Factor: 1		Analysis Time..: 14:19		
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AP
		Dilution Factor: 1		Analysis Time..: 14:19		
Iron	**152**	**100**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AQ**
		Dilution Factor: 1		Analysis Time..: 14:19		
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AR
		Dilution Factor: 1		Analysis Time..: 14:19		
Magnesium	**349000**	**5000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AT**
		Dilution Factor: 1		Analysis Time..: 14:19		

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IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

DISSOLVED Metals

Lot-Sample #...: H2D160153-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**26.7**	**15.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AU**
		Dilution Factor: 1		Analysis Time..: 14:19		
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AV
		Dilution Factor: 1		Analysis Time..: 14:19		
Potassium	**310000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AW**
		Dilution Factor: 10		Analysis Time..: 15:10		
Selenium	**4.5 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AX**
		Dilution Factor: 1		Analysis Time..: 14:19		
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1A0
		Dilution Factor: 1		Analysis Time..: 14:19		
Sodium	**1540000**	**50000**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1A1**
		Dilution Factor: 10		Analysis Time..: 15:10		
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1A2
		Dilution Factor: 1		Analysis Time..: 14:19		
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EXX6M1AA
		Dilution Factor: 1		Analysis Time..: 14:19		
Zinc	**5.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EXX6M1AC**
		Dilution Factor: 1		Analysis Time..: 14:19		
Prep Batch #...: 2111104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EXX6M1AD
		Dilution Factor: 1		Analysis Time..: 15:37		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D190000-142 **Prep Batch #...:** 2109142						
Aluminum	ND	200	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AD
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AE
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AF
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Barium	ND	200	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AG
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AH
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AJ
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Calcium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AK
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AL
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AM
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AN
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Iron	ND	100	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AP
		Dilution Factor: 1				
		Analysis Time..: 12:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AQ
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Magnesium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AR
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Manganese	ND	15.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AT
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AU
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Potassium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AV
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AW
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AX
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Sodium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56R1A0
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Thallium	**6.7 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/19-04/23/02**	**EX56R1A1**
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AA
		Dilution Factor: 1				
		Analysis Time..: 12:49				
Zinc	ND	20.0	ug/L	SW846 6010B	04/19-04/23/02	EX56R1AC
		Dilution Factor: 1				
		Analysis Time..: 12:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D210000-103 **Prep Batch #...:** 2111103						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EX8M71AA
		Dilution Factor: 1				
		Analysis Time..: 15:09				

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 #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D190000-142 **Prep Batch #...:** 2109142					
Aluminum	105	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A4
Antimony	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A5
Arsenic	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A6
Barium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A7
Beryllium	106	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A8
Cadmium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1A9
Calcium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1CA
Chromium	101	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1CC
Cobalt	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1CD
Copper	100	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:53	04/19-04/23/02	EX56R1CE

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	101	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CF
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Lead	101	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CG
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Magnesium	102	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CH
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Manganese	104	(90 - 111)	SW846 6010B	04/19-04/23/02	EX56R1CJ
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Nickel	102	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CK
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Potassium	104	(89 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CL
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Selenium	106	(90 - 114)	SW846 6010B	04/19-04/23/02	EX56R1CM
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Silver	100	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CN
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Sodium	101	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CP
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Thallium	102	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1CQ
		Dilution Factor: 1			
		Analysis Time..: 12:53			
Vanadium	101	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56R1A2
		Dilution Factor: 1			
		Analysis Time..: 12:53			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	108	(90 - 115)	SW846 6010B	04/19-04/23/02	EX56R1A3
		Dilution Factor: 1			
		Analysis Time..: 12:53			

LCS Lot-Sample#: H2D210000-103 **Prep Batch #...:** 2111103

Mercury	105	(90 - 110)	SW846 7470A	04/21/02	EX8M71AC
		Dilution Factor: 1			
		Analysis Time..: 15:11			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D190000-142 **Prep Batch #...:** 2109142							
Aluminum	2000	2090	ug/L	105	SW846 6010B	04/19-04/23/02	EX56R1A4
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Antimony	500	508	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1A5
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Arsenic	2000	2060	ug/L	103	SW846 6010B	04/19-04/23/02	EX56R1A6
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Barium	2000	2010	ug/L	100	SW846 6010B	04/19-04/23/02	EX56R1A7
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Beryllium	50.0	52.8	ug/L	106	SW846 6010B	04/19-04/23/02	EX56R1A8
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Cadmium	50.0	51.1	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1A9
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Calcium	50000	51000	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1CA
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Chromium	200	203	ug/L	101	SW846 6010B	04/19-04/23/02	EX56R1CC
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Cobalt	500	514	ug/L	103	SW846 6010B	04/19-04/23/02	EX56R1CD
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Copper	250	250	ug/L	100	SW846 6010B	04/19-04/23/02	EX56R1CE
			Dilution Factor: 1				
			Analysis Time..: 12:53				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	1010	ug/L	101	SW846 6010B	04/19-04/23/02	EX56R1CF
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Lead	500	506	ug/L	101	SW846 6010B	04/19-04/23/02	EX56R1CG
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Magnesium	50000	50900	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1CH
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Manganese	500	519	ug/L	104	SW846 6010B	04/19-04/23/02	EX56R1CJ
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Nickel	500	508	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1CK
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Potassium	50000	51900	ug/L	104	SW846 6010B	04/19-04/23/02	EX56R1CL
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Selenium	2000	2120	ug/L	106	SW846 6010B	04/19-04/23/02	EX56R1CM
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Silver	50.0	50.0	ug/L	100	SW846 6010B	04/19-04/23/02	EX56R1CN
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Sodium	50000	50500	ug/L	101	SW846 6010B	04/19-04/23/02	EX56R1CP
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Thallium	2000	2050	ug/L	102	SW846 6010B	04/19-04/23/02	EX56R1CQ
			Dilution Factor: 1				
			Analysis Time..: 12:53				
Vanadium	500	506	ug/L	101	SW846 6010B	04/19-04/23/02	EX56R1A2
			Dilution Factor: 1				
			Analysis Time..: 12:53				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	542	ug/L	108	SW846 6010B	04/19-04/23/02	EX56R1A3
			Dilution Factor: 1				
			Analysis Time..: 12:53				

LCS Lot-Sample#: H2D210000-103 **Prep Batch #...:** 2111103

Mercury	0.00500	0.00525	mg/L	105	SW846 7470A	04/21/02	EX8M71AC
			Dilution Factor: 1				
			Analysis Time..: 15:11				

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D190000-144 **Prep Batch #...:** 2109144						
Aluminum	ND	200	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AD
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Antimony	ND	60.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AE
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Arsenic	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AF
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Barium	ND	200	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AG
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AH
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AJ
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Calcium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AK
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Chromium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AL
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AM
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Copper	ND	25.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AN
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Iron	ND	100	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AP
		Dilution Factor: 1				
		Analysis Time..: 12:40				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AQ
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Magnesium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AR
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Manganese	ND	15.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AT
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Nickel	ND	40.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AU
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Potassium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AV
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Selenium	ND	5.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AW
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Silver	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AX
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Sodium	ND	5000	ug/L	SW846 6010B	04/19-04/23/02	EX56V1A0
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Thallium	ND	10.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1A1
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AA
		Dilution Factor: 1				
		Analysis Time..: 12:40				
Zinc	ND	20.0	ug/L	SW846 6010B	04/19-04/23/02	EX56V1AC
		Dilution Factor: 1				
		Analysis Time..: 12:40				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2D210000-104 **Prep Batch #...:** 2111104						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/21/02	EX8M91AA
		Dilution Factor: 1				
		Analysis Time..: 15:30				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D190000-144 **Prep Batch #...:** 2109144					
Aluminum	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A4
Antimony	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A5
Arsenic	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A6
Barium	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A7
Beryllium	104	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A8
Cadmium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1A9
Calcium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1CA
Chromium	100	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1CC
Cobalt	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1CD
Copper	99	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:44	04/19-04/23/02	EX56V1CE

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	99	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CF
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Lead	99	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CG
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Magnesium	100	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CH
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Manganese	102	(90 - 111)	SW846 6010B	04/19-04/23/02	EX56V1CJ
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Nickel	100	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CK
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Potassium	102	(89 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CL
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Selenium	104	(90 - 114)	SW846 6010B	04/19-04/23/02	EX56V1CM
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Silver	99	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CN
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Sodium	100	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CP
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Thallium	101	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1CQ
		Dilution Factor: 1			
		Analysis Time..: 12:44			
Vanadium	99	(90 - 110)	SW846 6010B	04/19-04/23/02	EX56V1A2
		Dilution Factor: 1			
		Analysis Time..: 12:44			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	107	(90 - 115)	SW846 6010B	04/19-04/23/02	EX56V1A3
		Dilution Factor: 1			
		Analysis Time..: 12:44			

LCS Lot-Sample#: H2D210000-104 **Prep Batch #...:** 2111104

Mercury	106	(90 - 110)	SW846 7470A	04/21/02	EX8M91AC
		Dilution Factor: 1			
		Analysis Time..: 15:36			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2D190000-144 **Prep Batch #...:** 2109144							
Aluminum	2000	2060	ug/L	103	SW846 6010B	04/19-04/23/02	EX56V1A4
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Antimony	500	498	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1A5
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Arsenic	2000	2020	ug/L	101	SW846 6010B	04/19-04/23/02	EX56V1A6
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Barium	2000	1970	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1A7
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Beryllium	50.0	51.9	ug/L	104	SW846 6010B	04/19-04/23/02	EX56V1A8
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Cadmium	50.0	49.9	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1A9
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Calcium	50000	50100	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1CA
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Chromium	200	200	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1CC
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Cobalt	500	504	ug/L	101	SW846 6010B	04/19-04/23/02	EX56V1CD
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Copper	250	246	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1CE
			Dilution Factor: 1				
			Analysis Time..: 12:44				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	988	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1CF
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Lead	500	497	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1CG
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Magnesium	50000	50000	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1CH
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Manganese	500	511	ug/L	102	SW846 6010B	04/19-04/23/02	EX56V1CJ
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Nickel	500	498	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1CK
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Potassium	50000	51200	ug/L	102	SW846 6010B	04/19-04/23/02	EX56V1CL
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Selenium	2000	2080	ug/L	104	SW846 6010B	04/19-04/23/02	EX56V1CM
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Silver	50.0	49.4	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1CN
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Sodium	50000	49900	ug/L	100	SW846 6010B	04/19-04/23/02	EX56V1CP
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Thallium	2000	2010	ug/L	101	SW846 6010B	04/19-04/23/02	EX56V1CQ
			Dilution Factor: 1				
			Analysis Time..: 12:44				
Vanadium	500	497	ug/L	99	SW846 6010B	04/19-04/23/02	EX56V1A2
			Dilution Factor: 1				
			Analysis Time..: 12:44				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	533	ug/L	107	SW846 6010B	04/19-04/23/02	EX56V1A3
			Dilution Factor: 1				
			Analysis Time..: 12:44				

LCS Lot-Sample#: H2D210000-104 **Prep Batch #...:** 2111104

Mercury	0.00500	0.00532	mg/L	106	SW846 7470A	04/21/02	EX8M91AC
			Dilution Factor: 1				
			Analysis Time..: 15:36				

NOTE(S):

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

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3041

General Chemistry

Lot-Sample #...: H2D160153-002 **Work Order #...:** EXX5E **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**2100**	**25.0**	**mg/L**	**MCAWW 325.2**	**05/06/02**	**2126395**
		Dilution Factor: 25				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3	**1490**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/23/02**	**2113462**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 10				
Sulfate	**103**	**25.0**	**mg/L**	**MCAWW 375.4**	**05/07/02**	**2127387**
		Dilution Factor: 5				
Total Alkalinity	**501 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Dissolved Solids	**3720**	**50.0**	**mg/L**	**MCAWW 160.1**	**04/17-04/18/02**	**2107220**
		Dilution Factor: 5				
Total Organic Carbon	**6.5**	**1.0**	**mg/L**	**SW846 9060**	**04/17/02**	**2108236**
		Dilution Factor: 1				
Total Suspended Solids	**25.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/17-04/18/02**	**2107219**
		Dilution Factor: 1				
Turbidity	**140**	**5.0**	**NTU**	**MCAWW 180.1**	**04/16/02**	**2106514**
		Dilution Factor: 10				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3042

General Chemistry

Lot-Sample #...: H2D160153-003 **Work Order #...:** EXX5L **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**40.1**	**1.0**	**mg/L**	**MCAWW 325.2**	**05/06/02**	**2126395**
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	**738**	**25.0**	**mg/L**	**MCAWW 130.2**	**04/23/02**	**2113462**
		Dilution Factor: 5				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 10				
Sulfate	**261**	**100**	**mg/L**	**MCAWW 375.4**	**05/06/02**	**2127239**
		Dilution Factor: 20				
Total Alkalinity	**378 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Dissolved Solids	**792**	**10.0**	**mg/L**	**MCAWW 160.1**	**04/17-04/18/02**	**2107220**
		Dilution Factor: 1				
Total Organic Carbon	**4.0**	**1.0**	**mg/L**	**SW846 9060**	**04/17/02**	**2108236**
		Dilution Factor: 1				
Total Suspended Solids	**14.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/17-04/18/02**	**2107219**
		Dilution Factor: 1				
Turbidity	**36.2**	**0.50**	**NTU**	**MCAWW 180.1**	**04/16/02**	**2106514**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3043

General Chemistry

Lot-Sample #...: H2D160153-004 Work Order #...: EXX5Q Matrix.....: WATER
Date Sampled...: 04/15/02 Date Received..: 04/16/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	10.5	1.0	mg/L	MCAWW 325.2	05/06/02	2126395
		Dilution Factor: 1				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Hardness, as CaCO3	611	10.0	mg/L	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 2				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 10				
Sulfate	309	100	mg/L	MCAWW 375.4	05/06/02	2127239
		Dilution Factor: 20				
Total Alkalinity	402 J	5.0	mg/L	MCAWW 310.1	04/16-04/17/02	2107127
		Dilution Factor: 1				
Total Dissolved Solids	848	10.0	mg/L	MCAWW 160.1	04/17-04/18/02	2107220
		Dilution Factor: 1				
Total Organic Carbon	9.0	1.0	mg/L	SW846 9060	04/17/02	2108236
		Dilution Factor: 1				
Total Suspended Solids	74.0	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				
Turbidity	78.5	2.5	NTU	MCAWW 180.1	04/16/02	2106514
		Dilution Factor: 5				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3044

General Chemistry

Lot-Sample #...: H2D160153-005 **Work Order #...:** EXX5X **Matrix.....:** WATER
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**4810**	**100**	**mg/L**	**MCAWW 325.2**	**05/06/02**	**2126395**
		Dilution Factor: 100				
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3	**5020**	**125**	**mg/L**	**MCAWW 130.2**	**04/23/02**	**2113462**
		Dilution Factor: 25				
Nitrate	ND G	1.0	mg/L	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 10				
Sulfate	**388**	**100**	**mg/L**	**MCAWW 375.4**	**05/06/02**	**2127239**
		Dilution Factor: 20				
Total Alkalinity	**282 J**	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Dissolved Solids	**7960**	**200**	**mg/L**	**MCAWW 160.1**	**04/17-04/18/02**	**2107220**
		Dilution Factor: 20				
Total Organic Carbon	**10.7**	**1.0**	**mg/L**	**SW846 9060**	**04/17/02**	**2108236**
		Dilution Factor: 1				
Total Suspended Solids	**1080**	**4.0**	**mg/L**	**MCAWW 160.2**	**04/17-04/18/02**	**2107219**
		Dilution Factor: 1				
Turbidity	**605**	**25.0**	**NTU**	**MCAWW 180.1**	**04/16/02**	**2106514**
		Dilution Factor: 50				

NOTE(S):

RL Reporting Limit

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.

IT CORPORATION - KNOXVILLE

Client Sample ID: CB3049

General Chemistry

Lot-Sample #...: H2D160153-007 **Work Order #...:** EXX6A **Matrix.....:** WASTE
Date Sampled...: 04/15/02 **Date Received..:** 04/16/02
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint	**75.7**	--	**deg F**	**SW846 1020A**	**04/20/02**	**2110118**

Dilution Factor: 1

METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E007E1AA		MB Lot-Sample #:	A2E060000-395	
	ND	1.0	mg/L	MCAWW 325.2	05/06/02	2126395
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E0EA41AA		MB Lot-Sample #:	H2D250000-173	
	ND	0.010	mg/L	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E0EDQ1AA		MB Lot-Sample #:	H2D250000-188	
	ND	0.010	mg/L	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E0A9W1AA		MB Lot-Sample #:	A2D230000-462	
	ND	5.0	mg/L	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 1				
Nitrate		Work Order #: EX1FN1AA		MB Lot-Sample #:	A2D160000-539	
	ND	0.10	mg/L	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 1				
Sulfate		Work Order #: E01461AA		MB Lot-Sample #:	A2E070000-239	
	ND	5.0	mg/L	MCAWW 375.4	05/06/02	2127239
		Dilution Factor: 1				
Sulfate		Work Order #: E02VK1AA		MB Lot-Sample #:	A2E070000-387	
	ND	5.0	mg/L	MCAWW 375.4	05/07/02	2127387
		Dilution Factor: 1				
Total Alkalinity		Work Order #: EX1KK1AA		MB Lot-Sample #:	A2D170000-127	
	3.9 B	**5.0**	**mg/L**	**MCAWW 310.1**	**04/16-04/17/02**	**2107127**
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: EX16K1AA		MB Lot-Sample #:	A2D170000-220	
	ND	10.0	mg/L	MCAWW 160.1	04/17-04/18/02	2107220
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: EX34H1AA		MB Lot-Sample #:	A2D180000-236	
	ND	1.0	mg/L	SW846 9060	04/17/02	2108236
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: EX16Q1AA		MB Lot-Sample #:	A2D170000-219	
	ND	4.0	mg/L	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: EX1DV1AA		MB Lot-Sample #:	A2D160000-514	
	ND	0.50	NTU	MCAWW 180.1	04/16/02	2106514
		Dilution Factor: 1				

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

General Chemistry

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E007E1AC	LCS Lot-Sample#: A2E060000-395		
	93	(90 - 115)	MCAWW 325.2	05/06/02	2126395
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E0EA41AC	LCS Lot-Sample#: H2D250000-173		
	98	(88 - 113)	SW846 9012A	04/19-04/20/02	2115173
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E0EDQ1AC	LCS Lot-Sample#: H2D250000-188		
	106	(88 - 113)	SW846 9012A	04/23-04/24/02	2115188
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E0A9W1AC	LCS Lot-Sample#: A2D230000-462		
	99	(84 - 116)	MCAWW 130.2	04/23/02	2113462
		Dilution Factor: 1			
Nitrate		Work Order #: EX1FN1AC	LCS Lot-Sample#: A2D160000-539		
	102	(77 - 116)	MCAWW 353.2	04/16/02	2106539
		Dilution Factor: 1			
Sulfate		Work Order #: E01461AC	LCS Lot-Sample#: A2E070000-239		
	103	(80 - 112)	MCAWW 375.4	05/06/02	2127239
		Dilution Factor: 1			
Sulfate		Work Order #: E02VK1AC	LCS Lot-Sample#: A2E070000-387		
	106	(80 - 112)	MCAWW 375.4	05/07/02	2127387
		Dilution Factor: 1			
Total Alkalinity		Work Order #: EX1KK1AC	LCS Lot-Sample#: A2D170000-127		
	99	(90 - 127)	MCAWW 310.1	04/16-04/17/02	2107127
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: EX16K1AC	LCS Lot-Sample#: A2D170000-220		
	97	(69 - 120)	MCAWW 160.1	04/17-04/18/02	2107220
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: EX34H1AC	LCS Lot-Sample#: A2D180000-236		
	100	(88 - 115)	SW846 9060	04/17/02	2108236
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		Work Order #: EX16Q1AC	LCS Lot-Sample#: A2D170000-219		
	107	(66 - 119)	MCAWW 160.2	04/17-04/18/02	2107219
		Dilution Factor: 1			
Turbidity		Work Order #: EX1DV1AC	LCS Lot-Sample#: A2D160000-514		
	110	(75 - 125)	MCAWW 180.1	04/16/02	2106514
		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 #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #: E007E1AC		LCS Lot-Sample#:	A2E060000-395	
	233	216	mg/L	93	MCAWW 325.2	05/06/02	2126395
			Dilution Factor: 1				
Cyanide, Total			Work Order #: E0EA41AC		LCS Lot-Sample#:	H2D250000-173	
	0.200	0.197	mg/L	98	SW846 9012A	04/19-04/20/02	2115173
			Dilution Factor: 1				
Cyanide, Total			Work Order #: E0EDQ1AC		LCS Lot-Sample#:	H2D250000-188	
	0.200	0.212	mg/L	106	SW846 9012A	04/23-04/24/02	2115188
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #: E0A9W1AC		LCS Lot-Sample#:	A2D230000-462	
	224	221	mg/L	99	MCAWW 130.2	04/23/02	2113462
			Dilution Factor: 1				
Nitrate			Work Order #: EX1FN1AC		LCS Lot-Sample#:	A2D160000-539	
	0.500	0.508	mg/L	102	MCAWW 353.2	04/16/02	2106539
			Dilution Factor: 1				
Sulfate			Work Order #: E01461AC		LCS Lot-Sample#:	A2E070000-239	
	58.5	60.3	mg/L	103	MCAWW 375.4	05/06/02	2127239
			Dilution Factor: 1				
Sulfate			Work Order #: E02VK1AC		LCS Lot-Sample#:	A2E070000-387	
	58.5	61.9	mg/L	106	MCAWW 375.4	05/07/02	2127387
			Dilution Factor: 1				
Total Alkalinity			Work Order #: EX1KK1AC		LCS Lot-Sample#:	A2D170000-127	
	43.4	43.1	mg/L	99	MCAWW 310.1	04/16-04/17/02	2107127
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: EX16K1AC		LCS Lot-Sample#:	A2D170000-220	
	320	311	mg/L	97	MCAWW 160.1	04/17-04/18/02	2107220
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: EX34H1AC		LCS Lot-Sample#:	A2D180000-236	
	38.5	38.6	mg/L	100	SW846 9060	04/17/02	2108236
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: CB003 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids			Work Order #: EX16Q1AC LCS Lot-Sample#: A2D170000-219				
	32.6	35.0	mg/L	107	MCAWW 160.2	04/17-04/18/02	2107219
			Dilution Factor: 1				
Turbidity			Work Order #: EX1DV1AC LCS Lot-Sample#: A2D160000-514				
	1.00	1.10	NTU	110	MCAWW 180.1	04/16/02	2106514
			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 #...: CB003 Matrix.....: WASTE

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: EX8JJ1AA	LCS Lot-Sample#: I2D200000-118		
	101	(95 - 105)	SW846 1020A	04/20/02	2110118
		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 #...: CB003 **Matrix.....:** WASTE

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint			Work Order #:	EX8JJ1AA	LCS Lot-Sample#:	I2D200000-118	
	81.0	81.7	deg F	101	SW846 1020A	04/20/02	2110118
			Dilution Factor: 1				

NOTE(S):

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

Sample Receipt Documentation

SEVERN TRENT
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# CB003

*	DATE REC'D	LOT#	CLIENT ID	VOA	BNA	CN	EXP	T/MET	D/MET	TOC	CHL	NIT	SULF	TDS	TSS	TURB	ALK	HARD	DRO	GRO	FLASH
				8260B	8270C	9012	8330	6010B	6010B	9060	325.2	353.2	375.4	160.1	160.2	180.1	310.1	130.2	8015	8015	1020A
1,	4/16/2002	H2D160153	BC5019	X																	
2			CB3041	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC			
3			CB3042	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC			
4			CB3043	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC			
5			CB3044	X	X	X	X	X	X	NC	NC	NC	NC	NC	NC	NC	NC	NC			
6			CB3049	X															A	A	A
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					

NC = NORTH CANTON
A = STL AUSTIN
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: WATER
ANALYTICAL DUE: 5-9-02
REPORT DUE: 5-13-02
CLOSED? YES

5/22/200210:36 AM

H2D160153

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04152002K

Project Number: 825635
Samples Shipment Date: 15 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL Knoxville
Sample Coordinator: Don Dill
Lab Contact: Jamie McKinney
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095251

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) D Dill	Date: 4/15/02 Time: 1600	1. Received By (Signature/Affiliation) Matthew F. Howard	Date: 04-16-02 Time: 09:45
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:
Rec'd temp. 3°c
custodeseals intact
Fedex# 827069095251
MF H. 04-16-02

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
BC5019	PBOW-02-BW-FIELDQC-BC5019-0-0	15 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		ph2
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		ph2
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		ph12
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

H2D160153

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04152002K

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH2
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		pH7-Preserved in Lab to pH2 with HNO3 By mF HOH-1602
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	500 mL HDPE	1	NaOH>pH 12	Total Cyanide by 9010A	N		pH12
CB3048	PBOW-02-WA-FIELDQC-CB3048--	15 APR 2002	16:00	500 mL HDPE	1	HNO3<pH 2	TAL Metals by SW-846 6010B/7470A in water	N		pH2
CB3048	PBOW-02-WA-FIELDQC-CB3048--	15 APR 2002	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3048	PBOW-02-WA-FIELDQC-CB3048--	15 APR 2002	16:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3048	PBOW-02-WA-FIELDQC-CB3048--	15 APR 2002	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3049	PBOW-02-WA-FIELDQC-CB3049-0-0	15 APR 2002	16:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: It-Corp. PROJECT: Plumbrook ordnance wks Lot No.: H2D160153

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)? MFH 04-16-02	✗	✓	
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: Matthew F. Howard DATE: 04-16-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 44281			
b. Informed Login associates of special instructions ? CB3049 is on hold	X		
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : pm DATE: 4/16/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CB3049	8260	4f	Acid as oil sample not water
CB3044	8270	3B	1 of 2 containers Broken
↓	TAL metals	4e	See backside

☒ Client informed on 4/16/02 by Conf cpt. Person contacted: V Davis; M McMyler

☐ Noted actions in comments section above.

☒ No action necessary; process as is.

Project Manager: pm Date: 4/17/02

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT PROJECT: PBOW Lot No.: H2D160153

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		
d. Is cooler temperature & custody seal condition noted on COC?	X		
2. Log-in (Lot Folder) Review:			
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:			
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:			
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:			
a. Has Sample Receipt Checklist been filled-out?	X		
b. Was there a CUR?	X		
c. Were all issues resolved?	X		X client to call (CB3049)

LOT FOLDER REVIEWED BY: jm DATE: 4/16/02

Per the client's instructions:
Log sample CB3049 as waste for VOA, GRO, + DRO (GRO+DRO to Austin) jm 4/17/02
Change the client ID in comments for CB3048 and CB3049 - per email.
QA016R8.doc, 4/13/00
Log sample CB3049 for waste ignitability (Austin) BKD 4-17-02 BKD 4-18-02
Delete sample CB3048 and relog for a 7 day TAT for on a new lot. Put in comment BKD 4-18-02

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL Austin
14046 Summit Dr
Austin TX 78728,DAM ER

NEED ANALYTICAL REPORT BY
5/08/02

ATTN:

LAB PURCHASE ORDER: SR037947

CLIENT CODE: 99266 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0011

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2D160153-007 EXX6A-1-AA	4/15/02	Hydrocarbons, Extractable Petroleum (8015B) (TPHS_O) METHOD: 8015B
H2D160153-007 EXX6A-1-AC	4/15/02	Hydrocarbons, Volatile Petroleum (8015B) (TPHV_O) METHOD: 8015B

Ref: H2D160153
Dept: 140320

Date: 17APR02 SHIPPING $18.16
Wgt: 8.95 LBS SPECIAL $0.18
HANDLING $0.00
TOTAL $18.34

SERVICE: PRIORITY OVERNIGHT
TRACK: 6104 4276 2388

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 4/17/02

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: _____ 4/17/02 11:38:54
STL Austin
14046 Summit Dr
Austin TX 78728,DAM ER

RELINQUISHED BY: Bryan K. Jameson DATE/TIME: 4-17-02 15:30

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

H20160153

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04152002N

Project Number: 825635
Samples Shipment Date: 15 APR 2002
Bill To: Accounts Receivable, 312 Directors Drive, Knoxville TN 37923

Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: STL North Canton

Sample Coordinator: Don Dill
Lab Contact: Ken Kuzior
Report To: Maureen McMyler, 312 Directors Drive, Knoxville TN 37923

Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095273

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation)	Date: 4/15/02 Time: 1600	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3041	PBOW-02-GW-PB-BED-MW15-CB3041-33-34	15 APR 2002	12:40	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total	N		

H2D160153

IT CORPORATION
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04152002N

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1			
CB3042	PBOW-02-GW-PB-TNTA-MW10-CB3042-11-12	15 APR 2002	09:45	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		
CB3043	PBOW-02-GW-PB-TNTA-MW11-CB3043-4-8	15 APR 2002	10:30	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	40 mL GVIAL,SEP	3	H2SO4<pH 2	Total Organic Carbon by SW9060	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	1 L HDPE	1	None except cool to 4 C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1	N		
CB3044	PBOW-02-GW-TNTA-BEDGW-001-CB3044-71-81	15 APR 2002	11:25	250 mL HDPE	1	HNO3, pH<2	Hardness by 200.7	N		

SET 2

H2G110121 Sample Data Summary **1**

Sample Receipt Documentation **93**

Volatiles **100**
- Raw Sample Data 101
- Standards Data 165
- Raw QC Data 230
- Miscellaneous Data 265

Semi-Volatiles **271**
- Raw Sample Data 272
- Standards Data 289
- Raw QC Data 395
- Miscellaneous Data 425

Explosives **430**
- Raw Sample Data 431
- Standards Data 438
- Raw QC Data 495
- Miscellaneous Data 503

Metals **506**
- Sample Results 507
- QC Summary 516
- Quality Control Results SuperTrace ICP 553
- Quality Control Results Mercury 588
- Raw Data SuperTrace ICP 604
- Raw Data Mercury 820
- Miscellaneous Data 843

Wet Chemistry **863**
- Sample Summary 864
- QC Summary 867
- Raw Data 880
- Miscellaneous Data 951

Sample Receipt Documentation **956**

Total Number of Pages **962**

SEVERN TRENT SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
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ANALYTICAL REPORT

PROJECT NO. 825635

PBOW

Lot #: H2G110121

Maureen McMyler

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

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

July 24, 2002

ANALYTICAL METHODS SUMMARY

H2G110121

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

H2G110121

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E4HCW	001	CC3009	07/10/02	09:00
E4HC3	002	CC3003	07/10/02	16:00
E4HC5	003	CC5001	07/10/02	
E4HV3	004	CC3009	07/10/02	09:00
E4HWC	005	CC3003	07/10/02	16:00

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
H2G110121

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

All three containers for volatiles of sample CC5001 were received with headspace.

The cyanide portion of sample CC5001 was received at pH 9. The sample was preserved to pH 12 by laboratory personnel.

The chain of custody requested method 200.7 for samples CC3009 and CC3003. The client was notified (J. McGee, 7/12/02) and instructed the laboratory to use method 130.2.

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 106.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.1), 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.

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
H2G110121

Metals

The serial dilution of sample CC3009 was outside control limits for potassium due to physical or chemical matrix interferences.

The serial dilution of sample CC3009F was outside control limits for potassium due to physical or chemical matrix interferences.

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: CC3009

GC/MS Volatiles

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW1AC **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	**0.19 J,B**	**2.0**	**ug/L**	**0.17**
Acetone	**3.5 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	ND	5.0	ug/L	0.85
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	99	(77 - 128)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	106	(72 - 129)

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SHAW E & I INC

Client Sample ID: CC3009

GC/MS Volatiles

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW1AC **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC3003

GC/MS Volatiles

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC31AK **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	**0.27 J**	**2.0**	**ug/L**	**0.18**
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**10 B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	**9.8**	**5.0**	**ug/L**	**0.85**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	**3.2**	**1.0**	**ug/L**	**0.24**
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	**0.76 J**	**1.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(80 - 120)
1,2-Dichloroethane-d4	110	(77 - 128)
Toluene-d8	92	(80 - 120)
Bromofluorobenzene	103	(72 - 129)

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SHAW E & I INC

Client Sample ID: CC3003

GC/MS Volatiles

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC31AK **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC5001

GC/MS Volatiles

Lot-Sample #...: H2G110121-003 **Work Order #...:** E4HC51AA **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	**17 B**	**2.0**	**ug/L**	**0.17**
Acetone	**3.6 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	ND	5.0	ug/L	0.85
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	**4.9**	**1.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	101	(77 - 128)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	111	(72 - 129)

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SHAW E & I INC

Client Sample ID: CC5001

GC/MS Volatiles

Lot-Sample #...: H2G110121-003 **Work Order #...:** E4HC51AA **Matrix.....:** WATER

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HXV1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G110000-323

Prep Date.....: 07/12/02
Analysis Date..: 07/12/02 **Prep Batch #...:** 2192323
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	**0.57 J**	**2.0**	**ug/L**	**SW846 8260B**
Acetone	**1.3 J**	**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	ND	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	ND	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	101	(80 - 120)
1,2-Dichloroethane-d4	102	(77 - 128)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	112	(72 - 129)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HXV1AA **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 #...: H2G110121 **Work Order #...:** E4HXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-323 E4HXV1AD-LCSD
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(69 - 120)**			**SW846 8260B**
	106	**(69 - 120)**	**0.39**	**(0-26)**	**SW846 8260B**
Trichloroethene	**109**	**(76 - 120)**			**SW846 8260B**
	109	**(76 - 120)**	**0.030**	**(0-17)**	**SW846 8260B**
Benzene	**102**	**(76 - 120)**			**SW846 8260B**
	102	**(76 - 120)**	**0.060**	**(0-19)**	**SW846 8260B**
Toluene	**105**	**(77 - 120)**			**SW846 8260B**
	101	**(77 - 120)**	**3.6**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**108**	**(75 - 120)**			**SW846 8260B**
	108	**(75 - 120)**	**0.70**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	90	(80 - 120)
1,2-Dichloroethane-d4	97	(77 - 128)
	98	(77 - 128)
Toluene-d8	97	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	107	(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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-323 E4HXV1AD-LCSD
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	10.0	**10.6**	**ug/L**	**106**	**0.39**	**SW846 8260B**
Trichloroethene	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	10.0	**10.9**	**ug/L**	**109**	**0.030**	**SW846 8260B**
Benzene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	10.0	**10.2**	**ug/L**	**102**	**0.060**	**SW846 8260B**
Toluene	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**3.6**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260B**
	10.0	**10.8**	**ug/L**	**108**	**0.70**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	90	(80 - 120)
1,2-Dichloroethane-d4	97	(77 - 128)
	98	(77 - 128)
Toluene-d8	97	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	107	(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: CC3009

GC/MS Semivolatiles

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW1AD **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/11/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2192183
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	0.59
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	ND	10	ug/L	0.67
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	ND	10	ug/L	0.87
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3009

GC/MS Semivolatiles

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	53	(29 - 110)
Phenol-d5	63	(41 - 115)
Nitrobenzene-d5	66	(46 - 117)
2-Fluorobiphenyl	66	(44 - 116)
2,4,6-Tribromophenol	85	(31 - 138)
Terphenyl-d14	83	(36 - 134)

SHAW E & I INC

Client Sample ID: CC3003

GC/MS Semivolatiles

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC31AL **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/11/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2192183
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	0.59
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	ND	10	ug/L	0.67
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	ND	10	ug/L	0.87
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3003

GC/MS Semivolatiles

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC31AL **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(29 - 110)
Phenol-d5	85	(41 - 115)
Nitrobenzene-d5	86	(46 - 117)
2-Fluorobiphenyl	79	(44 - 116)
2,4,6-Tribromophenol	87	(31 - 138)
Terphenyl-d14	88	(36 - 134)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HDM1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G110000-183

Prep Date.....: 07/11/02
Analysis Date..: 07/15/02 **Prep Batch #...:** 2192183
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HDM1AA **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	84	(29 - 110)
Phenol-d5	97	(41 - 115)
Nitrobenzene-d5	102	(46 - 117)
2-Fluorobiphenyl	96	(44 - 116)
2,4,6-Tribromophenol	90	(31 - 138)
Terphenyl-d14	107	(36 - 134)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HDM1AA **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 #...: H2G110121 **Work Order #...:** E4HDM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-183 E4HDM1AD-LCSD
Prep Date.....: 07/11/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2192183
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	83	(62 - 103)			SW846 8270C
	88	(62 - 103)	5.1	(0-41)	SW846 8270C
2-Chlorophenol	83	(63 - 103)			SW846 8270C
	88	(63 - 103)	5.9	(0-43)	SW846 8270C
1,4-Dichlorobenzene	82	(65 - 102)			SW846 8270C
	88	(65 - 102)	7.1	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	90	(65 - 108)			SW846 8270C
	95	(65 - 108)	5.3	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	83	(67 - 104)			SW846 8270C
	84	(67 - 104)	1.4	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	97	(65 - 108)			SW846 8270C
	100	(65 - 108)	3.4	(0-29)	SW846 8270C
Acenaphthene	89	(59 - 100)			SW846 8270C
	89	(59 - 100)	0.22	(0-26)	SW846 8270C
4-Nitrophenol	83	(50 - 122)			SW846 8270C
	84	(50 - 122)	2.3	(0-50)	SW846 8270C
2,4-Dinitrotoluene	104	(69 - 128)			SW846 8270C
	108	(69 - 128)	3.8	(0-25)	SW846 8270C
Pentachlorophenol	94	(64 - 114)			SW846 8270C
	102	(64 - 114)	7.8	(0-37)	SW846 8270C
Pyrene	96	(52 - 119)			SW846 8270C
	97	(52 - 119)	1.2	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
	83	(29 - 110)
Phenol-d5	90	(41 - 115)
	92	(41 - 115)
Nitrobenzene-d5	92	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	91	(44 - 116)
	87	(44 - 116)
2,4,6-Tribromophenol	110	(31 - 138)
	107	(31 - 138)
Terphenyl-d14	104	(36 - 134)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HDM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-183 E4HDM1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	102	(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 #...: H2G110121 **Work Order #...:** E4HDM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-183 E4HDM1AD-LCSD
Prep Date.....: 07/11/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2192183
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	100	83.4	ug/L	83		SW846 8270C
	100	87.8	ug/L	88	5.1	SW846 8270C
2-Chlorophenol	100	83.2	ug/L	83		SW846 8270C
	100	88.3	ug/L	88	5.9	SW846 8270C
1,4-Dichlorobenzene	100	81.5	ug/L	82		SW846 8270C
	100	87.5	ug/L	88	7.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	90.0	ug/L	90		SW846 8270C
	100	94.9	ug/L	95	5.3	SW846 8270C
1,2,4-Trichloro-benzene	100	83.3	ug/L	83		SW846 8270C
	100	84.5	ug/L	84	1.4	SW846 8270C
4-Chloro-3-methylphenol	100	96.6	ug/L	97		SW846 8270C
	100	99.9	ug/L	100	3.4	SW846 8270C
Acenaphthene	100	89.0	ug/L	89		SW846 8270C
	100	88.8	ug/L	89	0.22	SW846 8270C
4-Nitrophenol	100	82.6	ug/L	83		SW846 8270C
	100	84.5	ug/L	84	2.3	SW846 8270C
2,4-Dinitrotoluene	100	104	ug/L	104		SW846 8270C
	100	108	ug/L	108	3.8	SW846 8270C
Pentachlorophenol	100	94.3	ug/L	94		SW846 8270C
	100	102	ug/L	102	7.8	SW846 8270C
Pyrene	100	95.8	ug/L	96		SW846 8270C
	100	97.0	ug/L	97	1.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
	83	(29 - 110)
Phenol-d5	90	(41 - 115)
	92	(41 - 115)
Nitrobenzene-d5	92	(46 - 117)
	93	(46 - 117)
2-Fluorobiphenyl	91	(44 - 116)
	87	(44 - 116)
2,4,6-Tribromophenol	110	(31 - 138)
	107	(31 - 138)
Terphenyl-d14	104	(36 - 134)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2G110121 **Work Order #...:** E4HDM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-183 E4HDM1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	102	(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: CC3009

HPLC

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW1AA **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/11/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192391
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	93	(53 - 133)

SHAW E & I INC

Client Sample ID: CC3003

HPLC

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC31AJ **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02
Prep Date.....: 07/11/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192391
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	119	(53 - 133)

METHOD BLANK REPORT

HPLC

Client Lot #...: H2G110121 **Work Order #...:** E4H6E1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G110000-391

Prep Date.....: 07/11/02
Analysis Date..: 07/12/02 **Prep Batch #...:** 2192391
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	118	(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 #...: H2G110121 **Work Order #...:** E4H6E1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-391 E4H6E1AD-LCSD
Prep Date.....: 07/11/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192391
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**100**	**(68 - 122)**			**SW846 8330**
	100	**(68 - 122)**	**0.26**	**(0-25)**	**SW846 8330**
RDX	**105**	**(71 - 127)**			**SW846 8330**
	111	**(71 - 127)**	**5.0**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**104**	**(70 - 124)**			**SW846 8330**
	104	**(70 - 124)**	**0.74**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**105**	**(72 - 124)**			**SW846 8330**
	106	**(72 - 124)**	**0.87**	**(0-25)**	**SW846 8330**
Tetryl	**106**	**(68 - 123)**			**SW846 8330**
	107	**(68 - 123)**	**1.1**	**(0-26)**	**SW846 8330**
Nitrobenzene	**96**	**(60 - 122)**			**SW846 8330**
	97	**(60 - 122)**	**1.2**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**105**	**(71 - 123)**			**SW846 8330**
	106	**(71 - 123)**	**1.1**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**91**	**(66 - 122)**			**SW846 8330**
	94	**(66 - 122)**	**2.9**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**95**	**(65 - 124)**			**SW846 8330**
	96	**(65 - 124)**	**1.6**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**105**	**(66 - 129)**			**SW846 8330**
	107	**(66 - 129)**	**2.2**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**103**	**(70 - 125)**			**SW846 8330**
	105	**(70 - 125)**	**1.5**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**87**	**(54 - 121)**			**SW846 8330**
	90	**(54 - 121)**	**2.8**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**91**	**(59 - 123)**			**SW846 8330**
	93	**(59 - 123)**	**1.6**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**92**	**(58 - 124)**			**SW846 8330**
	93	**(58 - 124)**	**1.0**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(53 - 133)
	93	(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 #...: H2G110121 Work Order #...: E4H6E1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: H2G110000-391 E4H6E1AD-LCSD
Prep Date.....: 07/11/02 Analysis Date..: 07/12/02
Prep Batch #...: 2192391
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**3.01**	**ug/L**	**100**		**SW846 8330**
	3.00	**3.00**	**ug/L**	**100**	**0.26**	**SW846 8330**
RDX	**3.00**	**3.16**	**ug/L**	**105**		**SW846 8330**
	3.00	**3.32**	**ug/L**	**111**	**5.0**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**3.11**	**ug/L**	**104**		**SW846 8330**
	3.00	**3.13**	**ug/L**	**104**	**0.74**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**3.16**	**ug/L**	**105**		**SW846 8330**
	3.00	**3.19**	**ug/L**	**106**	**0.87**	**SW846 8330**
Tetryl	**3.00**	**3.18**	**ug/L**	**106**		**SW846 8330**
	3.00	**3.21**	**ug/L**	**107**	**1.1**	**SW846 8330**
Nitrobenzene	**3.00**	**2.88**	**ug/L**	**96**		**SW846 8330**
	3.00	**2.91**	**ug/L**	**97**	**1.2**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**3.14**	**ug/L**	**105**		**SW846 8330**
	3.00	**3.17**	**ug/L**	**106**	**1.1**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.73**	**ug/L**	**91**		**SW846 8330**
	3.00	**2.81**	**ug/L**	**94**	**2.9**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.84**	**ug/L**	**95**		**SW846 8330**
	3.00	**2.88**	**ug/L**	**96**	**1.6**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**3.15**	**ug/L**	**105**		**SW846 8330**
	3.00	**3.22**	**ug/L**	**107**	**2.2**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**3.09**	**ug/L**	**103**		**SW846 8330**
	3.00	**3.14**	**ug/L**	**105**	**1.5**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.62**	**ug/L**	**87**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**2.8**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.73**	**ug/L**	**91**		**SW846 8330**
	3.00	**2.78**	**ug/L**	**93**	**1.6**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.76**	**ug/L**	**92**		**SW846 8330**
	3.00	**2.79**	**ug/L**	**93**	**1.0**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(53 - 133)
	93	(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: CC3009

TOTAL Metals

Lot-Sample #...: H2G110121-001 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2193115						
Aluminum	**117 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1A7**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1A8
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1A9
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 2.5	
Barium	**75.9 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CA**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CC
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CD
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 0.50	
Calcium	**39400**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CE**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CF
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.2	
Cobalt	**7.5 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CG**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 2.3	
Copper	**9.1 B**	**25.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CH**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.9	
Iron	**563**	**100**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CJ**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CK
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.7	
Magnesium	**15900**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CL**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 21.8	

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SHAW E & I INC

Client Sample ID: CC3009

TOTAL Metals

Lot-Sample #...: H2G110121-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**292**	**15.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CM**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.5	
Nickel	**15.0 B**	**40.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CN**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.9	
Potassium	**6780**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CP**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CQ
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CR
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.9	
Sodium	**19400**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CT**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CU
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4HCW1CV
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 1.8	
Zinc	**34.3**	**20.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HCW1CW**
		Dilution Factor: 1		Analysis Time..: 12:54	MDL.....: 2.6	

Prep Batch #...: 2195091

Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4HCW1CX
		Dilution Factor: 1		Analysis Time..: 15:10	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3003

TOTAL Metals

Lot-Sample #...: H2G110121-002 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2193115						
Aluminum	**83.4 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31AM**
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AN
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AP
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 2.5	
Barium	**24000**	**2000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31AQ**
		Dilution Factor: 10		Analysis Time..: 16:22	MDL.....: 10.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AR
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AT
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 0.50	
Calcium	**2000000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31AU**
		Dilution Factor: 10		Analysis Time..: 16:22	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AV
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.2	
Cobalt	**8.0 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31AW**
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31AX
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.9	
Iron	**4970**	**100**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31A0**
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 36.1	
Lead	ND	4.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31A1
		Dilution Factor: 10		Analysis Time..: 16:22	MDL.....: 17.0	
Magnesium	**960000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31A2**
		Dilution Factor: 10		Analysis Time..: 16:22	MDL.....: 218	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3003

TOTAL Metals

Lot-Sample #...: H2G110121-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**190**	**15.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31A3**
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31A4
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.9	
Potassium	**101000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31A5**
		Dilution Factor: 10		Analysis Time..: 16:22	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31A6
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31A7
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.9	
Sodium	**8380000**	**100000**	**ug/L**	**SW846 6010B**	**07/12-07/16/02**	**E4HC31A8**
		Dilution Factor: 20		Analysis Time..: 11:16	MDL.....: 7140	
Thallium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31A9
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4HC31CA
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 1.8	
Zinc	**9.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HC31CC**
		Dilution Factor: 1		Analysis Time..: 13:21	MDL.....: 2.6	

Prep Batch #...: 2195091

Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4HC31CD
		Dilution Factor: 1		Analysis Time..: 15:12	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3009

DISSOLVED Metals

Lot-Sample #...: H2G110121-004 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2193113						
Aluminum	**62.2 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AA**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AC
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AD
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 2.5	
Barium	**82.5 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AE**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AF
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AG
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 0.50	
Calcium	**39300**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AH**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AJ
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.2	
Cobalt	**10.3 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AK**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 2.3	
Copper	**2.8 B**	**25.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AL**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.9	
Iron	**745**	**100**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AM**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AN
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.7	
Magnesium	**14600**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AP**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 21.8	

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SHAW E & I INC

Client Sample ID: CC3009

DISSOLVED Metals

Lot-Sample #...: H2G110121-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**326**	**15.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AQ**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.5	
Nickel	**26.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AR**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.9	
Potassium	**6390**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AT**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AU
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AV
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.9	
Sodium	**19200**	**5000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31AW**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31AX
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4HV31A0
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 1.8	
Zinc	**124**	**20.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HV31A1**
		Dilution Factor: 1		Analysis Time..: 12:32	MDL.....: 2.6	

Prep Batch #...: 2195092

Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4HV31A2
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3003

DISSOLVED Metals

Lot-Sample #...: H2G110121-005 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2193113						
Aluminum	**63.1 B**	**200**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AE**
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AF
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AG
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 2.5	
Barium	**23900**	**2000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AH**
		Dilution Factor: 10		Analysis Time..: 16:17	MDL.....: 10.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AJ
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AK
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 0.50	
Calcium	**2020000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AL**
		Dilution Factor: 10		Analysis Time..: 16:17	MDL.....: 377	
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AM
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.2	
Cobalt	**8.0 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AN**
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AP
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.9	
Iron	**5100**	**100**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AQ**
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 36.1	
Lead	ND	4.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AR
		Dilution Factor: 10		Analysis Time..: 16:17	MDL.....: 17.0	
Magnesium	**969000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AT**
		Dilution Factor: 10		Analysis Time..: 16:17	MDL.....: 218	

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SHAW E & I INC

Client Sample ID: CC3003

DISSOLVED Metals

Lot-Sample #...: H2G110121-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**193**	**15.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AU**
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AV
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.9	
Potassium	**102000**	**50000**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AW**
		Dilution Factor: 10		Analysis Time..: 16:17	MDL.....: 1580	
Selenium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AX
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1A0
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.9	
Sodium	**8120000**	**100000**	**ug/L**	**SW846 6010B**	**07/12-07/16/02**	**E4HWC1A1**
		Dilution Factor: 20		Analysis Time..: 11:11	MDL.....: 7140	
Thallium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1A2
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4HWC1AA
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 1.8	
Zinc	**3.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4HWC1AC**
		Dilution Factor: 1		Analysis Time..: 12:50	MDL.....: 2.6	

Prep Batch #...: 2195092

Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4HWC1AD
		Dilution Factor: 1		Analysis Time..: 15:46	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G120000-113 **Prep Batch #...:** 2193113						
Aluminum	ND	200	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AA
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AC
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AD
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Barium	ND	200	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AE
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AF
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AG
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Calcium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AH
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AJ
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AK
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Copper	ND	25.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AL
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Iron	ND	100	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AM
		Dilution Factor: 1				
		Analysis Time..: 11:29				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AN
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Magnesium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AP
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Manganese	ND	15.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AQ
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Nickel	ND	40.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AR
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Potassium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AT
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Selenium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AU
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AV
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Sodium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG01AW
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Thallium	**7.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4KG01AX**
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01A0
		Dilution Factor: 1				
		Analysis Time..: 11:29				
Zinc	ND	20.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG01A1
		Dilution Factor: 1				
		Analysis Time..: 11:29				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-092 **Prep Batch #...:** 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ61AA
		Dilution Factor: 1				
		Analysis Time..: 15:40				

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 #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G120000-113 **Prep Batch #...:** 2193113					
Aluminum	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A2
Antimony	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A3
Arsenic	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A4
Barium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A5
Beryllium	104	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A6
Cadmium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A7
Calcium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A8
Chromium	101	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01A9
Cobalt	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01CA
Copper	100	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:33	07/12-07/15/02	E4KG01CC

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	99	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CD
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Lead	100	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CE
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Magnesium	100	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CF
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Manganese	103	(90 - 111)	SW846 6010B	07/12-07/15/02	E4KG01CG
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Nickel	101	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CH
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Potassium	97	(89 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CJ
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Selenium	103	(90 - 114)	SW846 6010B	07/12-07/15/02	E4KG01CK
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Silver	100	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CL
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Sodium	101	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CM
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Thallium	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CN
		Dilution Factor: 1			
		Analysis Time..: 11:33			
Vanadium	101	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG01CP
		Dilution Factor: 1			
		Analysis Time..: 11:33			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	106	(90 - 115)	SW846 6010B	07/12-07/15/02	E4KG01CQ
		Dilution Factor: 1			
		Analysis Time..: 11:33			

LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092

Mercury	105	(90 - 110)	SW846 7470A	07/14/02	E4NJ61AC
		Dilution Factor: 1			
		Analysis Time..: 15:42			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G120000-113 **Prep Batch #...:** 2193113							
Aluminum	2000	2040	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG01A2
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Antimony	500	496	ug/L	99	SW846 6010B	07/12-07/15/02	E4KG01A3
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Arsenic	2000	2030	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG01A4
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Barium	2000	2000	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01A5
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Beryllium	50.0	52.2	ug/L	104	SW846 6010B	07/12-07/15/02	E4KG01A6
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Cadmium	50.0	51.0	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG01A7
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Calcium	50000	50200	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01A8
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Chromium	200	203	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG01A9
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Cobalt	500	513	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG01CA
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Copper	250	250	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01CC
			Dilution Factor: 1				
			Analysis Time..: 11:33				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	993	ug/L	99	SW846 6010B	07/12-07/15/02	E4KG01CD
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Lead	500	502	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01CE
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Magnesium	50000	49900	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01CF
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Manganese	500	516	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG01CG
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Nickel	500	507	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG01CH
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Potassium	50000	48300	ug/L	97	SW846 6010B	07/12-07/15/02	E4KG01CJ
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Selenium	2000	2070	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG01CK
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Silver	50.0	49.8	ug/L	100	SW846 6010B	07/12-07/15/02	E4KG01CL
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Sodium	50000	50400	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG01CM
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Thallium	2000	2040	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG01CN
			Dilution Factor: 1				
			Analysis Time..: 11:33				
Vanadium	500	504	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG01CP
			Dilution Factor: 1				
			Analysis Time..: 11:33				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	532	ug/L	106	SW846 6010B	07/12-07/15/02	E4KG01CQ
			Dilution Factor: 1				
			Analysis Time..: 11:33				

LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092

Mercury	5.00	5.24	ug/L	105	SW846 7470A	07/14/02	E4NJ61AC
			Dilution Factor: 1				
			Analysis Time..: 15:42				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G110121-004 **Prep Batch #...:** 2193113							
Aluminum	107	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31A3
	105	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31A4
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Antimony	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31A5
	102	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31A6
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Arsenic	106	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31A7
	105	(75 - 125)	1.3	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31A8
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Barium	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31A9
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CA
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Beryllium	108	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CC
	106	(75 - 125)	1.3	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CD
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Cadmium	105	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CE
	103	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CF
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Calcium	108	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CG
	104	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CH
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Chromium	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CJ
	103	(75 - 125)	1.6	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CK
		Dilution Factor: 1					
		Analysis Time..: 12:36					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	106	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CL
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CM
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Copper	105	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CN
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CP
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Iron	108	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CQ
	104	(75 - 125)	2.2	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CR
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Lead	102	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CT
	101	(75 - 125)	0.91	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CU
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Magnesium	106	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CV
	104	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31CW
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Manganese	109	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31CX
	106	(75 - 125)	1.7	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31C0
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Nickel	105	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31C1
	103	(75 - 125)	1.9	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31C2
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Potassium	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31C3
	102	(75 - 125)	1.8	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31C4
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Selenium	106	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31C5
	105	(75 - 125)	0.88	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31C6
		Dilution Factor: 1					
		Analysis Time..: 12:36					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31C7
	103	(75 - 125)	1.2	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31C8
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Sodium	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31C9
	102	(75 - 125)	1.6	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31DA
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Thallium	105	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31DC
	104	(75 - 125)	1.4	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31DD
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Vanadium	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31DE
	103	(75 - 125)	1.6	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31DF
		Dilution Factor: 1					
		Analysis Time..: 12:36					
Zinc	111	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HV31DG
	109	(75 - 125)	1.6	(0-20)	SW846 6010B	07/12-07/15/02	E4HV31DH
		Dilution Factor: 1					
		Analysis Time..: 12:36					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

MS Lot-Sample #: H2G110121-004 **Prep Batch #...:** 2193113

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	62.2	2000	2200	ug/L	107		SW846 6010B	07/12-07/15/02	E4HV31A3
	62.2	2000	2160	ug/L	105	1.8	SW846 6010B	07/12-07/15/02	E4HV31A4
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Antimony									
	ND	500	520	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31A5
	ND	500	511	ug/L	102	1.8	SW846 6010B	07/12-07/15/02	E4HV31A6
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Arsenic									
	ND	2000	2120	ug/L	106		SW846 6010B	07/12-07/15/02	E4HV31A7
	ND	2000	2090	ug/L	105	1.3	SW846 6010B	07/12-07/15/02	E4HV31A8
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Barium									
	82.5	2000	2170	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31A9
	82.5	2000	2140	ug/L	103	1.5	SW846 6010B	07/12-07/15/02	E4HV31CA
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Beryllium									
	ND	50.0	53.8	ug/L	108		SW846 6010B	07/12-07/15/02	E4HV31CC
	ND	50.0	53.0	ug/L	106	1.3	SW846 6010B	07/12-07/15/02	E4HV31CD
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Cadmium									
	ND	50.0	52.5	ug/L	105		SW846 6010B	07/12-07/15/02	E4HV31CE
	ND	50.0	51.6	ug/L	103	1.8	SW846 6010B	07/12-07/15/02	E4HV31CF
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Calcium									
	39300	50000	93100	ug/L	108		SW846 6010B	07/12-07/15/02	E4HV31CG
	39300	50000	91500	ug/L	104	1.8	SW846 6010B	07/12-07/15/02	E4HV31CH
			Dilution Factor: 1						
			Analysis Time..: 12:36						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	209	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31CJ
	ND	200	206	ug/L	103	1.6	SW846 6010B	07/12-07/15/02	E4HV31CK
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Cobalt									
	10.3	500	541	ug/L	106		SW846 6010B	07/12-07/15/02	E4HV31CL
	10.3	500	532	ug/L	104	1.6	SW846 6010B	07/12-07/15/02	E4HV31CM
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Copper									
	2.8	250	265	ug/L	105		SW846 6010B	07/12-07/15/02	E4HV31CN
	2.8	250	261	ug/L	103	1.5	SW846 6010B	07/12-07/15/02	E4HV31CP
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Iron									
	745	1000	1830	ug/L	108		SW846 6010B	07/12-07/15/02	E4HV31CQ
	745	1000	1790	ug/L	104	2.2	SW846 6010B	07/12-07/15/02	E4HV31CR
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Lead									
	ND	500	510	ug/L	102		SW846 6010B	07/12-07/15/02	E4HV31CT
	ND	500	505	ug/L	101	0.91	SW846 6010B	07/12-07/15/02	E4HV31CU
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Magnesium									
	14600	50000	67800	ug/L	106		SW846 6010B	07/12-07/15/02	E4HV31CV
	14600	50000	66600	ug/L	104	1.8	SW846 6010B	07/12-07/15/02	E4HV31CW
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Manganese									
	326	500	872	ug/L	109		SW846 6010B	07/12-07/15/02	E4HV31CX
	326	500	857	ug/L	106	1.7	SW846 6010B	07/12-07/15/02	E4HV31C0
			Dilution Factor: 1						
			Analysis Time..: 12:36						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	26.2	500	550	ug/L	105		SW846 6010B	07/12-07/15/02	E4HV31C1
	26.2	500	540	ug/L	103	1.9	SW846 6010B	07/12-07/15/02	E4HV31C2
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Potassium									
	6390	50000	58500	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31C3
	6390	50000	57400	ug/L	102	1.8	SW846 6010B	07/12-07/15/02	E4HV31C4
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Selenium									
	ND	2000	2110	ug/L	106		SW846 6010B	07/12-07/15/02	E4HV31C5
	ND	2000	2090	ug/L	105	0.88	SW846 6010B	07/12-07/15/02	E4HV31C6
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Silver									
	ND	50.0	51.9	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31C7
	ND	50.0	51.3	ug/L	103	1.2	SW846 6010B	07/12-07/15/02	E4HV31C8
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Sodium									
	19200	50000	71400	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31C9
	19200	50000	70300	ug/L	102	1.6	SW846 6010B	07/12-07/15/02	E4HV31DA
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Thallium									
	ND	2000	2110	ug/L	105		SW846 6010B	07/12-07/15/02	E4HV31DC
	ND	2000	2080	ug/L	104	1.4	SW846 6010B	07/12-07/15/02	E4HV31DD
			Dilution Factor: 1						
			Analysis Time..: 12:36						
Vanadium									
	ND	500	522	ug/L	104		SW846 6010B	07/12-07/15/02	E4HV31DE
	ND	500	513	ug/L	103	1.6	SW846 6010B	07/12-07/15/02	E4HV31DF
			Dilution Factor: 1						
			Analysis Time..: 12:36						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	124	500	679	ug/L	111		SW846 6010B	07/12-07/15/02	E4HV31DG
	124	500	667	ug/L	109	1.6	SW846 6010B	07/12-07/15/02	E4HV31DH

Dilution Factor: 1
Analysis Time..: 12:36

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G120000-115 **Prep Batch #...:** 2193115						
Aluminum	ND	200	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AA
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Antimony	ND	60.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AC
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AD
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Barium	ND	200	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AE
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AF
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AG
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Calcium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AH
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Chromium	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AJ
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AK
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Copper	ND	25.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AL
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Iron	ND	100	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AM
		Dilution Factor: 1				
		Analysis Time..: 11:38				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AN
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Magnesium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AP
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Manganese	ND	15.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AQ
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Nickel	ND	40.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AR
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Potassium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AT
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Selenium	**4.0 B**	**5.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4KG41AU**
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Silver	ND	10.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AV
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Sodium	ND	5000	ug/L	SW846 6010B	07/12-07/15/02	E4KG41AW
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Thallium	**6.2 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/12-07/15/02**	**E4KG41AX**
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41A0
		Dilution Factor: 1				
		Analysis Time..: 11:38				
Zinc	ND	20.0	ug/L	SW846 6010B	07/12-07/15/02	E4KG41A1
		Dilution Factor: 1				
		Analysis Time..: 11:38				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G110121 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-091 **Prep Batch #...:** 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ41AA
		Dilution Factor: 1				
		Analysis Time..: 15:02				

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 #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G120000-115 **Prep Batch #...:** 2193115					
Aluminum	105	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A2
Antimony	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A3
Arsenic	103	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A4
Barium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A5
Beryllium	106	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A6
Cadmium	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A7
Calcium	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A8
Chromium	103	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41A9
Cobalt	104	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41CA
Copper	102	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 11:42	07/12-07/15/02	E4KG41CC

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	101	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CD
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Lead	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CE
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Magnesium	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CF
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Manganese	105	(90 - 111)	SW846 6010B	07/12-07/15/02	E4KG41CG
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Nickel	103	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CH
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Potassium	98	(89 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CJ
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Selenium	105	(90 - 114)	SW846 6010B	07/12-07/15/02	E4KG41CK
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Silver	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CL
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Sodium	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CM
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Thallium	104	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CN
		Dilution Factor: 1			
		Analysis Time..: 11:42			
Vanadium	102	(90 - 110)	SW846 6010B	07/12-07/15/02	E4KG41CP
		Dilution Factor: 1			
		Analysis Time..: 11:42			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	108	(90 - 115)	SW846 6010B	07/12-07/15/02	E4KG41CQ
		Dilution Factor: 1			
		Analysis Time..: 11:42			

LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091

Mercury	104	(90 - 110)	SW846 7470A	07/14/02	E4NJ41AC
		Dilution Factor: 1			
		Analysis Time..: 15:09			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G120000-115 **Prep Batch #...:** 2193115							
Aluminum	2000	2090	ug/L	105	SW846 6010B	07/12-07/15/02	E4KG41A2
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Antimony	500	505	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG41A3
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Arsenic	2000	2060	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG41A4
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Barium	2000	2040	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41A5
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Beryllium	50.0	52.9	ug/L	106	SW846 6010B	07/12-07/15/02	E4KG41A6
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Cadmium	50.0	51.8	ug/L	104	SW846 6010B	07/12-07/15/02	E4KG41A7
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Calcium	50000	51000	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41A8
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Chromium	200	206	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG41A9
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Cobalt	500	521	ug/L	104	SW846 6010B	07/12-07/15/02	E4KG41CA
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Copper	250	255	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CC
			Dilution Factor: 1				
			Analysis Time..: 11:42				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	1010	ug/L	101	SW846 6010B	07/12-07/15/02	E4KG41CD
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Lead	500	510	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CE
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Magnesium	50000	50800	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CF
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Manganese	500	525	ug/L	105	SW846 6010B	07/12-07/15/02	E4KG41CG
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Nickel	500	517	ug/L	103	SW846 6010B	07/12-07/15/02	E4KG41CH
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Potassium	50000	49200	ug/L	98	SW846 6010B	07/12-07/15/02	E4KG41CJ
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Selenium	2000	2100	ug/L	105	SW846 6010B	07/12-07/15/02	E4KG41CK
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Silver	50.0	50.9	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CL
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Sodium	50000	51100	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CM
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Thallium	2000	2080	ug/L	104	SW846 6010B	07/12-07/15/02	E4KG41CN
			Dilution Factor: 1				
			Analysis Time..: 11:42				
Vanadium	500	512	ug/L	102	SW846 6010B	07/12-07/15/02	E4KG41CP
			Dilution Factor: 1				
			Analysis Time..: 11:42				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	500	541	ug/L	108	SW846 6010B	07/12-07/15/02	E4KG41CQ
			Dilution Factor: 1				
			Analysis Time..: 11:42				

LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091

Mercury	5.00	5.19	ug/L	104	SW846 7470A	07/14/02	E4NJ41AC
			Dilution Factor: 1				
			Analysis Time..: 15:09				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G110121-001 **Prep Batch #...:** 2193115							
Aluminum	104	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DA
	103	(75 - 125)	0.67	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DC
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Antimony	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DD
	99	(75 - 125)	0.95	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DE
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Arsenic	102	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DF
	101	(75 - 125)	0.70	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DG
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Barium	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DH
	99	(75 - 125)	0.34	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DJ
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Beryllium	103	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DK
	103	(75 - 125)	0.75	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DL
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Cadmium	101	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DM
	100	(75 - 125)	0.69	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DN
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Calcium	98	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DP
	97	(75 - 125)	0.67	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DQ
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Chromium	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DR
	99	(75 - 125)	0.87	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DT
		Dilution Factor: 1					
		Analysis Time..: 13:07					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DU
	101	(75 - 125)	0.70	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DV
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Copper	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1DW
	99	(75 - 125)	0.84	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1DX
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Iron	99	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1D0
	97	(75 - 125)	1.3	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1D1
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Lead	98	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1D2
	98	(75 - 125)	0.83	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1D3
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Magnesium	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1D4
	99	(75 - 125)	0.56	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1D5
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Manganese	101	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1D6
	100	(75 - 125)	0.75	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1D7
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Nickel	101	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1D8
	100	(75 - 125)	0.84	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1D9
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Potassium	99	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EA
	98	(75 - 125)	0.41	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EC
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Selenium	102	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1ED
	101	(75 - 125)	0.85	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EE
		Dilution Factor: 1					
		Analysis Time..: 13:07					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EF
	98	(75 - 125)	1.7	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EG
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Sodium	95	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EH
	94	(75 - 125)	0.69	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EJ
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Thallium	101	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EK
	101	(75 - 125)	0.41	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EL
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Vanadium	100	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EM
	99	(75 - 125)	0.66	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EN
		Dilution Factor: 1					
		Analysis Time..: 13:07					
Zinc	106	(75 - 125)			SW846 6010B	07/12-07/15/02	E4HCW1EP
	105	(75 - 125)	0.34	(0-20)	SW846 6010B	07/12-07/15/02	E4HCW1EQ
		Dilution Factor: 1					
		Analysis Time..: 13:07					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G110121-001 **Prep Batch #...:** 2193115									
Aluminum									
	117	2000	2190	ug/L	104		SW846 6010B	07/12-07/15/02	E4HCW1DA
	117	2000	2180	ug/L	103	0.67	SW846 6010B	07/12-07/15/02	E4HCW1DC
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Antimony									
	ND	500	501	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1DD
	ND	500	496	ug/L	99	0.95	SW846 6010B	07/12-07/15/02	E4HCW1DE
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Arsenic									
	ND	2000	2040	ug/L	102		SW846 6010B	07/12-07/15/02	E4HCW1DF
	ND	2000	2030	ug/L	101	0.70	SW846 6010B	07/12-07/15/02	E4HCW1DG
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Barium									
	75.9	2000	2070	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1DH
	75.9	2000	2070	ug/L	99	0.34	SW846 6010B	07/12-07/15/02	E4HCW1DJ
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Beryllium									
	ND	50.0	51.7	ug/L	103		SW846 6010B	07/12-07/15/02	E4HCW1DK
	ND	50.0	51.3	ug/L	103	0.75	SW846 6010B	07/12-07/15/02	E4HCW1DL
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Cadmium									
	ND	50.0	50.5	ug/L	101		SW846 6010B	07/12-07/15/02	E4HCW1DM
	ND	50.0	50.2	ug/L	100	0.69	SW846 6010B	07/12-07/15/02	E4HCW1DN
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Calcium									
	39400	50000	88300	ug/L	98		SW846 6010B	07/12-07/15/02	E4HCW1DP
	39400	50000	87700	ug/L	97	0.67	SW846 6010B	07/12-07/15/02	E4HCW1DQ
			Dilution Factor: 1						
			Analysis Time..: 13:07						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	200	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1DR
	ND	200	198	ug/L	99	0.87	SW846 6010B	07/12-07/15/02	E4HCW1DT
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Cobalt									
	7.5	500	515	ug/L	101		SW846 6010B	07/12-07/15/02	E4HCW1DU
	7.5	500	511	ug/L	101	0.70	SW846 6010B	07/12-07/15/02	E4HCW1DV
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Copper									
	9.1	250	259	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1DW
	9.1	250	257	ug/L	99	0.84	SW846 6010B	07/12-07/15/02	E4HCW1DX
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Iron									
	563	1000	1550	ug/L	99		SW846 6010B	07/12-07/15/02	E4HCW1D0
	563	1000	1530	ug/L	97	1.3	SW846 6010B	07/12-07/15/02	E4HCW1D1
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Lead									
	ND	500	492	ug/L	98		SW846 6010B	07/12-07/15/02	E4HCW1D2
	ND	500	488	ug/L	98	0.83	SW846 6010B	07/12-07/15/02	E4HCW1D3
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Magnesium									
	15900	50000	65800	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1D4
	15900	50000	65400	ug/L	99	0.56	SW846 6010B	07/12-07/15/02	E4HCW1D5
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Manganese									
	292	500	798	ug/L	101		SW846 6010B	07/12-07/15/02	E4HCW1D6
	292	500	792	ug/L	100	0.75	SW846 6010B	07/12-07/15/02	E4HCW1D7
			Dilution Factor: 1						
			Analysis Time..: 13:07						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	15.0	500	518	ug/L	101		SW846 6010B	07/12-07/15/02	E4HCW1D8
	15.0	500	514	ug/L	100	0.84	SW846 6010B	07/12-07/15/02	E4HCW1D9
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Potassium									
	6780	50000	56200	ug/L	99		SW846 6010B	07/12-07/15/02	E4HCW1EA
	6780	50000	56000	ug/L	98	0.41	SW846 6010B	07/12-07/15/02	E4HCW1EC
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Selenium									
	ND	2000	2040	ug/L	102		SW846 6010B	07/12-07/15/02	E4HCW1ED
	ND	2000	2030	ug/L	101	0.85	SW846 6010B	07/12-07/15/02	E4HCW1EE
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Silver									
	ND	50.0	49.9	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1EF
	ND	50.0	49.1	ug/L	98	1.7	SW846 6010B	07/12-07/15/02	E4HCW1EG
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Sodium									
	19400	50000	67000	ug/L	95		SW846 6010B	07/12-07/15/02	E4HCW1EH
	19400	50000	66600	ug/L	94	0.69	SW846 6010B	07/12-07/15/02	E4HCW1EJ
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Thallium									
	ND	2000	2020	ug/L	101		SW846 6010B	07/12-07/15/02	E4HCW1EK
	ND	2000	2010	ug/L	101	0.41	SW846 6010B	07/12-07/15/02	E4HCW1EL
			Dilution Factor: 1						
			Analysis Time..: 13:07						
Vanadium									
	ND	500	501	ug/L	100		SW846 6010B	07/12-07/15/02	E4HCW1EM
	ND	500	497	ug/L	99	0.66	SW846 6010B	07/12-07/15/02	E4HCW1EN
			Dilution Factor: 1						
			Analysis Time..: 13:07						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	34.3	500	563	ug/L	106		SW846 6010B	07/12-07/15/02	E4HCW1EP
	34.3	500	561	ug/L	105	0.34	SW846 6010B	07/12-07/15/02	E4HCW1EQ

Dilution Factor: 1
Analysis Time..: 13:07

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091							
Mercury	99	(73 - 125)			SW846 7470A	07/14/02	E4K7M1CU
	101	(73 - 125)	1.8	(0-20)	SW846 7470A	07/14/02	E4K7M1CV
		Dilution Factor: 1					
		Analysis Time..: 15:16					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091									
Mercury									
	ND	1.00	0.992	ug/L	99		SW846 7470A	07/14/02	E4K7M1CU
	ND	1.00	1.01	ug/L	101	1.8	SW846 7470A	07/14/02	E4K7M1CV

Dilution Factor: 1
Analysis Time..: 15:16

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195092							
Mercury	108	(73 - 125)			SW846 7470A	07/14/02	E4K8L1DJ
	107	(73 - 125)	0.93	(0-20)	SW846 7470A	07/14/02	E4K8L1DK

Dilution Factor: 1
Analysis Time..: 15:50

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195092									
Mercury									
	ND	1.00	1.08	ug/L	108		SW846 7470A	07/14/02	E4K8L1DJ
	ND	1.00	1.07	ug/L	107	0.93	SW846 7470A	07/14/02	E4K8L1DK

Dilution Factor: 1
Analysis Time..: 15:50

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: CC3009

General Chemistry

Lot-Sample #...: H2G110121-001 **Work Order #...:** E4HCW **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**3.4**	**1.0**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
	Dilution Factor: 1		MDL.....: 0.30			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/12/02	2196270
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**144**	**5.0**	**mg/L**	**MCAWW 130.2**	**07/16/02**	**2197337**
	Dilution Factor: 1		MDL.....: 2.1			
Nitrate	**0.19**	**0.10**	**mg/L**	**MCAWW 353.2**	**07/11/02**	**2192510**
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	**118**	**25.0**	**mg/L**	**MCAWW 375.4**	**07/15/02**	**2196140**
	Dilution Factor: 5		MDL.....: 0.90			
Total Alkalinity	**90.0**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/11/02**	**2192511**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**279**	**10.0**	**mg/L**	**MCAWW 160.1**	**07/12-07/15/02**	**2193215**
	Dilution Factor: 1		MDL.....: 4.3			
Total Organic Carbon	**7.1**	**1.0**	**mg/L**	**SW846 9060**	**07/13/02**	**2196100**
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	**4.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/12/02**	**2193217**
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**1.7**	**0.50**	**NTU**	**MCAWW 180.1**	**07/11/02**	**2192508**
	Dilution Factor: 1		MDL.....: 0.50			

SHAW E & I INC

Client Sample ID: CC3003

General Chemistry

Lot-Sample #...: H2G110121-002 **Work Order #...:** E4HC3 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**19000**	**1000**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
	Dilution Factor: 1000		MDL.....: 300			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/12/02	2196270
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**8140**	**125**	**mg/L**	**MCAWW 130.2**	**07/16/02**	**2197337**
	Dilution Factor: 25		MDL.....: 52.5			
Nitrate	ND	0.10	mg/L	MCAWW 353.2	07/11/02	2192510
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	ND	5.0	mg/L	MCAWW 375.4	07/15/02	2196140
	Dilution Factor: 1		MDL.....: 0.18			
Total Alkalinity	**293**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/11/02**	**2192511**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**35500**	**200**	**mg/L**	**MCAWW 160.1**	**07/12-07/15/02**	**2193215**
	Dilution Factor: 20		MDL.....: 86.0			
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	07/13/02	2196101
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	**33.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/12/02**	**2193217**
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**7.4**	**0.50**	**NTU**	**MCAWW 180.1**	**07/11/02**	**2192508**
	Dilution Factor: 1		MDL.....: 0.50			

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AA		MB Lot-Sample #:	A2G150000-143	
	ND	1.0	mg/L	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E4N1R1AA		MB Lot-Sample #:	H2G150000-270	
	ND	0.010	mg/L	SW846 9012A	07/12/02	2196270
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E4Q9L1AA		MB Lot-Sample #:	A2G160000-337	
	ND	5.0	mg/L	MCAWW 130.2	07/16/02	2197337
		Dilution Factor: 1				
Nitrate		Work Order #: E4J981AA		MB Lot-Sample #:	A2G110000-510	
	ND	0.10	mg/L	MCAWW 353.2	07/11/02	2192510
		Dilution Factor: 1				
Sulfate		Work Order #: E4NPD1AA		MB Lot-Sample #:	A2G150000-140	
	ND	5.0	mg/L	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1				
Total Alkalinity		Work Order #: E4KFN1AA		MB Lot-Sample #:	A2G110000-511	
	ND	5.0	mg/L	MCAWW 310.1	07/11/02	2192511
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: E4KW01AA		MB Lot-Sample #:	A2G120000-215	
	ND	10.0	mg/L	MCAWW 160.1	07/12-07/15/02	2193215
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E4NLW1AA		MB Lot-Sample #:	A2G150000-100	
	ND	1.0	mg/L	SW846 9060	07/12/02	2196100
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E4NLP1AA		MB Lot-Sample #:	A2G150000-101	
	ND	1.0	mg/L	SW846 9060	07/13/02	2196101
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: E4KWX1AA		MB Lot-Sample #:	A2G120000-217	
	ND	4.0	mg/L	MCAWW 160.2	07/12/02	2193217
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: E4J931AA		MB Lot-Sample #:	A2G110000-508	
	ND	0.50	NTU	MCAWW 180.1	07/11/02	2192508
		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 #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AC	LCS Lot-Sample#: A2G150000-143		
	94	(90 - 115)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E4N1R1AC	LCS Lot-Sample#: H2G150000-270		
	107	(88 - 113)	SW846 9012A	07/12/02	2196270
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E4Q9L1AC	LCS Lot-Sample#: A2G160000-337		
	100	(84 - 116)	MCAWW 130.2	07/16/02	2197337
		Dilution Factor: 1			
Nitrate		Work Order #: E4J981AC	LCS Lot-Sample#: A2G110000-510		
	103	(77 - 116)	MCAWW 353.2	07/11/02	2192510
		Dilution Factor: 1			
Sulfate		Work Order #: E4NPD1AC	LCS Lot-Sample#: A2G150000-140		
	101	(80 - 112)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1			
Total Alkalinity		Work Order #: E4KFN1AC	LCS Lot-Sample#: A2G110000-511		
	111	(90 - 127)	MCAWW 310.1	07/11/02	2192511
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: E4KW01AC	LCS Lot-Sample#: A2G120000-215		
	103	(69 - 120)	MCAWW 160.1	07/12-07/15/02	2193215
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E4NLW1AC	LCS Lot-Sample#: A2G150000-100		
	94	(88 - 115)	SW846 9060	07/12/02	2196100
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E4NLP1AC	LCS Lot-Sample#: A2G150000-101		
	95	(88 - 115)	SW846 9060	07/13/02	2196101
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: E4KWX1AC	LCS Lot-Sample#: A2G120000-217		
	95	(66 - 119)	MCAWW 160.2	07/12/02	2193217
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: E4J931AC	LCS Lot-Sample#: A2G110000-508		
	94	(75 - 125)	MCAWW 180.1	07/11/02	2192508
		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 #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	E4NPK1AC	LCS Lot-Sample#:	A2G150000-143	
	233	219	mg/L	94	MCAWW 325.2	07/15/02	2196143
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	E4N1R1AC	LCS Lot-Sample#:	H2G150000-270	
	0.200	0.214	mg/L	107	SW846 9012A	07/12/02	2196270
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	E4Q9L1AC	LCS Lot-Sample#:	A2G160000-337	
	289	290	mg/L	100	MCAWW 130.2	07/16/02	2197337
			Dilution Factor: 1				
Nitrate			Work Order #:	E4J981AC	LCS Lot-Sample#:	A2G110000-510	
	1.00	1.03	mg/L	103	MCAWW 353.2	07/11/02	2192510
			Dilution Factor: 1				
Sulfate			Work Order #:	E4NPD1AC	LCS Lot-Sample#:	A2G150000-140	
	58.5	59.1	mg/L	101	MCAWW 375.4	07/15/02	2196140
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	E4KFN1AC	LCS Lot-Sample#:	A2G110000-511	
	98.9	109	mg/L	111	MCAWW 310.1	07/11/02	2192511
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	E4KW01AC	LCS Lot-Sample#:	A2G120000-215	
	314	322	mg/L	103	MCAWW 160.1	07/12-07/15/02	2193215
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	E4NLW1AC	LCS Lot-Sample#:	A2G150000-100	
	59.0	55.7	mg/L	94	SW846 9060	07/12/02	2196100
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	E4NLP1AC	LCS Lot-Sample#:	A2G150000-101	
	59.0	56.3	mg/L	95	SW846 9060	07/13/02	2196101
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	E4KWX1AC	LCS Lot-Sample#:	A2G120000-217	
	68.2	65.0	mg/L	95	MCAWW 160.2	07/12/02	2193217
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G110121 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity			Work Order #:	E4J931AC	LCS Lot-Sample#:	A2G110000-508	
	1.00	0.940	NTU	94	MCAWW 180.1	07/11/02	2192508
			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 #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	E4K7M1EE-MS/E4K7M1EF-MSD			MS Lot-Sample #:	H2G120173-001
	NC,MSB	(43 - 167)			MCAWW 325.2	07/15/02	2196143
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1					
Cyanide, Total		WO#:	E4HC31CT-MS/E4HC31CU-MSD			MS Lot-Sample #:	H2G110121-002
	98	(77 - 126)			SW846 9012A	07/12/02	2196270
	94	(77 - 126)	4.7	(0-20)	SW846 9012A	07/12/02	2196270
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	E4HCW1EV-MS/E4HCW1EW-MSD			MS Lot-Sample #:	H2G110121-001
	89	(10 - 176)			MCAWW 130.2	07/16/02	2197337
	90	(10 - 176)	0.64	(0-23)	MCAWW 130.2	07/16/02	2197337
		Dilution Factor: 1					
Nitrate		WO#:	E4HC31CP-MS/E4HC31CQ-MSD			MS Lot-Sample #:	H2G110121-002
	74	(10 - 163)			MCAWW 353.2	07/11/02	2192510
	82	(10 - 163)	10	(0-24)	MCAWW 353.2	07/11/02	2192510
		Dilution Factor: 1					
Sulfate		WO#:	E4K7M1EJ-MS/E4K7M1EK-MSD			MS Lot-Sample #:	H2G120173-001
	NC,MSB	(22 - 151)			MCAWW 375.4	07/15/02	2196140
	NC,MSB	(22 - 151)		(0-31)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1					
Total Alkalinity		WO#:	E4HH31C7-MS/E4HH31C8-MSD			MS Lot-Sample #:	A2G110141-002
	111	(10 - 160)			MCAWW 310.1	07/11/02	2192511
	99	(10 - 160)	8.3	(0-24)	MCAWW 310.1	07/11/02	2192511
		Dilution Factor: 1					
Total Organic Carbon		WO#:	E4K7M1EL-MS/E4K7M1EM-MSD			MS Lot-Sample #:	H2G120173-001
	102	(72 - 136)			SW846 9060	07/13/02	2196101
	101	(72 - 136)	0.95	(0-20)	SW846 9060	07/13/02	2196101
		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 #...: H2G110121 **Matrix.....:** WATER
Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001		
	219	25.0	221	mg/L			MCAWW 325.2	07/15/02	2196143
			Qualifiers: NC,MSB						
	219	25.0	222	mg/L			MCAWW 325.2	07/15/02	2196143
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: E4HC31CT-MS/E4HC31CU-MSD				MS Lot-Sample #: H2G110121-002		
	ND	0.200	0.197	mg/L	98		SW846 9012A	07/12/02	2196270
	ND	0.200	0.188	mg/L	94	4.7	SW846 9012A	07/12/02	2196270
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4HCW1EV-MS/E4HCW1EW-MSD				MS Lot-Sample #: H2G110121-001		
	144	200	321	mg/L	89		MCAWW 130.2	07/16/02	2197337
	144	200	323	mg/L	90	0.64	MCAWW 130.2	07/16/02	2197337
			Dilution Factor: 1						
Nitrate			WO#: E4HC31CP-MS/E4HC31CQ-MSD				MS Lot-Sample #: H2G110121-002		
	ND	0.250	0.186	mg/L	74		MCAWW 353.2	07/11/02	2192510
	ND	0.250	0.205	mg/L	82	10	MCAWW 353.2	07/11/02	2192510
			Dilution Factor: 1						
Sulfate			WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001		
	416	25.0	422	mg/L			MCAWW 375.4	07/15/02	2196140
			Qualifiers: NC,MSB						
	416	25.0	424	mg/L			MCAWW 375.4	07/15/02	2196140
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Total Alkalinity			WO#: E4HH31C7-MS/E4HH31C8-MSD				MS Lot-Sample #: A2G110141-002		
	237	500	794	mg/L	111		MCAWW 310.1	07/11/02	2192511
	237	500	731	mg/L	99	8.3	MCAWW 310.1	07/11/02	2192511
			Dilution Factor: 1						
Total Organic Carbon			WO#: E4K7M1EL-MS/E4K7M1EM-MSD				MS Lot-Sample #: H2G120173-001		
	2.7	25.0	28.2	mg/L	102		SW846 9060	07/13/02	2196101
	2.7	25.0	28.0	mg/L	101	0.95	SW846 9060	07/13/02	2196101
			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 #...: H2G110121 **Work Order #...:** E4HCW-SMP E4HCW-DUP **Matrix.....:** WATER

Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2G110121-001	
	4.0	5.0	mg/L	22	(0-20)	MCAWW 160.2	07/12/02	2193217
		Dilution Factor: 1						
Turbidity						SD Lot-Sample #:	H2G110121-001	
	1.7	1.9	NTU	9.6	(0-20)	MCAWW 180.1	07/11/02	2192508
		Dilution Factor: 1						
Total Dissolved Solids						SD Lot-Sample #:	H2G110121-001	
	279	285	mg/L	2.1	(0-20)	MCAWW 160.1	07/12-07/15/02	2193215
		Dilution Factor: 1						

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G110121 **Work Order #...:** E4JFQ-SMP E4JFQ-DUP **Matrix.....:** WATER

Date Sampled...: 07/11/02 **Date Received..:** 07/11/02

% Moisture.....: 100 **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	A2G110256-001	
	78.0	89.0	mg/L	13	(0-20)	MCAWW 160.2	07/12/02	2193217

Dilution Factor: 1

Sample Receipt Documentation

H26110121

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 10 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: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/10/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney/865-588-6401
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266911

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC3009	WATER	7/10/02 0900	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER	7/10/02 0900	2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER	7/10/02 0900	1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER	7/10/02 0900	1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water Ph2		
	WATER	7/10/02 0900	1 - HDPE	250 ml	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water Ph2		
	WATER	7/10/02 0900	1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A Ph12		
CC3003	WATER	7/10/02 1600	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER	7/10/02 1600	2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER	7/10/02 1600	1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER	7/10/02 1600	1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water Ph2		
	WATER	7/10/02 1600	1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water Ph2		
	WATER	7/10/02 1600	1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A Ph9, Personnel in Lab to Ph12 with NaOH by MFH 07-11-02		
CC5001 (T	WATER	7/10/02	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		

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: X

Level of QC Required:

Definitive Project Specific: ____

1. Relinquished by: David Kessler Shaw E&I ~~IT Corporation~~	Date: 7/10/02 Time: 1800	1. Received by: G Guthrie	Date: 7-11-02 Time: 0845
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

Cooler Rec. w/ custody seals intact Fed Ex # 833154266911

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: Shaw ~~FTC~~ 7/15/02 PROJECT: PBOW Lot No.: HZL110121

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) MSH 07-11-02			
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: 7/11/02

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 ?			
Fax FlagOutTues. 16th			
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : _____ DATE: _____

	Client Sample ID	Analysis Requested	Condition (see legend.)	Comments/Action
X	CC5001	8260B	3e	3/3 have headspace
X	↓	9010 A	4r	Preclud PH9, persevad to pH12
XX	CC3009	hardness	6r	with NaOH By MFH in lab.
XX	CC 3003	↓	↓	per Jackson - run 130.2

☒ Client informed on phone/email by 7/12/02/7/15/02 Person contacted: J Jackson; M McMyler V Blaine

X ☒ Noted actions in comments section above.

☒ No action necessary; process as is.

Project Manager: [signature] Date: 7/15/02

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: Rec'd at pH 9
	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: request method 200.7 but PO + previous work by 130.2
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other: _____

Other (8): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2G110121

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA	
a. Was QuanTIMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	X	X		North Canton copy doesn't
c. Is preservative check (pH) noted on RFA/COC?		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		will add
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: 7/12/02

Correct FILLED to FIELD
Delete hardness and rely on STL NC 130.2 hardness. pm 7/12/02
MF 07-12-02

QA016R3.doc 4/13/00

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 iO 02STLC

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: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/10/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior/330-497-9396
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 8303458 79026

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC 3009	WATER	7/10/02 0900	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC 3009	WATER	7/10/02 0900	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3009	WATER	7/10/02 0900	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC 3003	WATER	7/10/02 1600	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC 3003	WATER	7/10/02 1600	2 DUP 3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3003	WATER	7/10/02 1600	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
	WATER		~~1 - HDPE~~	~~1000 mL~~	~~None except cool to 4C~~	~~Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1~~		
	WATER		3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
	WATER		1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		

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: X

Level of QC Required:
Definitive
Project Specific: ____

1. Relinquished by: David Kessler, Shaw E+I / IT Corporation	Date: 7/10/02 Time: 1830	1. Received by: [signature]	Date: 7-11-02 Time: 9:40
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: H0271101-21

Client: IT Project: ____ Quote#: ____
Cooler Received on: 7-11-02 Opened on: 7-11-02 by: [signature] (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 1 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 2.8 °C (see back of form for multiple coolers/temp)
   METHOD: Temp Vial ☐ Coolant & Sample ☒ Against Bottles ☐ IR ☐ ICE/H_2O Slurry ☐
   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 ☒ 7-11-02 AMS
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 # 102401-NaOH; Hydrochloric Acid Lot # 041200-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 #: H2G120123

Maureen McMyler

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

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

July 31, 2002

SET 2

H2G120123 Sample Data Summary **1**

Sample Receipt Documentation **15**

GRO **21**
- Sample Information 22
- QC Summary 30
- Sample Data 36
- Standards Data 40
- Raw QC Data 73

DRO **89**
- Sample Information 90
- QC Summary 96
- Sample Data 101
- Standards Data 107
- Raw QC Data 174

Sample Receipt Documentation **190**

Total Number of Pages **195**

ANALYTICAL METHODS SUMMARY

H2G120123

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Volatile Petroleum Hydrocarbons	SW846 8015B

References:

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

SAMPLE SUMMARY

H2G120123

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E4KQX	001	CC3002	07/11/02	08:30

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
H2G120123

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

The volatile portion of sample CC3002 was received with headspace.

Subcontract

The following analyses were performed by STL Austin Laboratory, 14046 Summit Dr, Austin TX, 78728: Gasoline and Diesel Range Organics (SW846 8015B).

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.

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: CC3002

GC Volatiles

Lot-Sample #...: H2G120123-001 **Work Order #...:** E4KQX1AC **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/22/02 **Analysis Date..:** 07/23/02
Prep Batch #...: 2204349
Dilution Factor: 200 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	**65000**	**20000**	**ug/L**	**3800**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	105	(75 - 125)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H2G120123 **Work Order #...:** E46CQ1AA **Matrix.....:** WATER
MB Lot-Sample #: I2G230000-349

Prep Date.....: 07/22/02
Analysis Date..: 07/22/02 **Prep Batch #...:** 2204349
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO	91	(75 - 125)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H2G120123 **Work Order #...:** E46CQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: I2G230000-349
Prep Date.....: 07/22/02 **Analysis Date..:** 07/22/02
Prep Batch #...: 2204349
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics	**107**	**(80 - 120)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO	117	(75 - 125)

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 Volatiles

Client Lot #...: H2G120123 **Work Order #...:** E46CQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: I2G230000-349
Prep Date.....: 07/22/02 **Analysis Date..:** 07/22/02
Prep Batch #...: 2204349
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Gasoline Range Organics	**2000**	**2140**	**ug/L**	**107**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO	117	(75 - 125)

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: CC3002

GC Semivolatiles

Lot-Sample #...: H2G120123-001 **Work Order #...:** E4KQX1AA **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/16/02 **Analysis Date..:** 07/18/02
Prep Batch #...: 2197266
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	**140**	**50**	**ug/L**	**12**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	98	(28 - 131)
Dotriacontane	115	(37 - 139)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H2G120123 **Work Order #...:** E4QW11AA **Matrix.....:** WATER
MB Lot-Sample #: I2G160000-266

Prep Date.....: 07/16/02
Analysis Date..: 07/18/02 **Prep Batch #...:** 2197266
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	50	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	94	(28 - 131)
Dotriacontane	30 *	(37 - 139)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

METHOD REQUIRES ONLY ONE SURROGATE TO PASS

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H2G120123 **Work Order #...:** E4QW11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: I2G160000-266 E4QW11AD-LCSD
Prep Date.....: 07/16/02 **Analysis Date..:** 07/18/02
Prep Batch #...: 2197266
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	**74**	**(51 - 127)**			**SW846 8015B**
	78	**(51 - 127)**	**5.0**	**(0-28)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	108	(28 - 131)
	106	(28 - 131)
Dotriacontane	116	(37 - 139)
	116	(37 - 139)

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 Semivolatiles

Client Lot #...: H2G120123 **Work Order #...:** E4QW11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: I2G160000-266 E4QW11AD-LCSD
Prep Date.....: 07/16/02 **Analysis Date..:** 07/18/02
Prep Batch #...: 2197266
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Diesel Range Organics	**1000**	**738**	**ug/L**	**74**		**SW846 8015B**
	1000	**776**	**ug/L**	**78**	**5.0**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	108	(28 - 131)
	106	(28 - 131)
Dotriacontane	116	(37 - 139)
	116	(37 - 139)

NOTE(S):

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

Bold print denotes control parameters

Sample Receipt Documentation

H2G120123

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 H 02STL K

PAGE 1 OF 2

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney/865-588-6401
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266885

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
CC3005	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC3005MS	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC5002 (T	WATER	7/11/02	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		

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: X

Level of QC Required:
Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/11/02 Time: 1800	1. Received by: S Guthrie	Date: 7-12-02 Time: 0830
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

Ice 5°C Custody seals intact Fed Ex 8221 [illegible] Coolers

H2G120123

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02STL K

Bill To: Accounting
Shaw E & I

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC 3005-MSD	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
~~CC 3006 MS~~								
CC 3006	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	not received	
~~DKK~~								
CC 3002	WATER	7/11/02 0830	3-vial	40 ml	Cool/HCL	BTEX(3) (not volatiles as sample labels say)		
CC 3002	WATER		3-vial	40 ml	cool/HCL	GRO-8015B		
CC 3002	WATER		2-Amber	1000 ml	Cool	DRO-8015B		
						DKK		

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of _____

CLIENT: Shaw E+I PROJECT: _____ Lot No.: H2B120123

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: GMuthrie DATE: 7/12/02

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 : pm DATE: 7/15/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CC3006	CN	4b	

sample not on lot pm 7/15/02

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

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2G120123

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA
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
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		will get from client
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: 7/15/02

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL Austin
14046 Summit Dr
Austin TX 78728,DAM ER

NEED ANALYTICAL REPORT BY
7/28/02

ATTN:

LAB PURCHASE ORDER: SR040181

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2G120123-001 E4KQX-1-AA	7/11/02	Hydrocarbons, Extractable Petroleum (8015B) (TPHS_L) METHOD: 8015B
H2G120123-001 E4KQX-1-AC	7/11/02	Hydrocarbons, Volatile Petroleum (8015B) (TPHV_L) METHOD: 8015B

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 7/12/02

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: _____ 7/12/02 8:48:26
STL Austin
14046 Summit Dr
Austin TX 78728,DAM ER

RELINQUISHED BY: S Guthrie DATE/TIME: 7/12/02 1400

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Date: 12JUL02 SHIPPING $26.87
Wgt: 18.55 LBSSPECIAL $0.67
HANDLING $0.00
TOTAL $27.54

SERVICE: PRIORITY SATURDAY
TRACK: 6104 4276 9669

Ref: H2G120123
Dept: 140320

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 #: H2G120173

Maureen McMyler

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

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

July 24, 2002

SET 2

H2G120173 Sample Data Summary **1**

Sample Receipt Documentation **98**

Volatiles **106**
- Raw Sample Data 107
- Standards Data 188
- Raw QC Data 251
- Miscellaneous Data 302

Semi-Volatiles **308**
- Raw Sample Data 309
- Standards Data 324
- Raw QC Data 430
- Miscellaneous Data 483

Explosives **489**
- Raw Sample Data 490
- Standards Data 497
- Raw QC Data 572
- Miscellaneous Data 583

Metals **587**
- Sample Results 588
- QC Summary 597
- Quality Control Results SuperTrace ICP 630
- Quality Control Results Mercury 666
- Raw Data SuperTrace ICP 682
- Raw data Mercury 1019
- Miscellaneous Data 1042

Wet Chemistry **1063**
- Sample Summary 1064
- QC Summary 1066
- Raw Data 1078
- Miscellaneous Data 1152

Sample Receipt Documentation **1158**

Total Number of Pages **1165**

ANALYTICAL METHODS SUMMARY

H2G120173

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

H2G120173

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E4K7M	001	CC3005	07/11/02	11:15
E4K8L	002	CC3005	07/11/02	11:15
E4K8Q	003	CC5002	07/11/02	
E4K8W	004	CC3006	07/11/02	11:15
E4K83	005	CC3006	07/11/02	11:15
E4K85	006	CC3002	07/11/02	08:30

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
H2G120173

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

Cyanide was requested on the chain of custody for sample CC3006, however, a container for cyanide was not received. The client was contacted (V. Graves, 7/12/02) and informed the laboratory that cyanide was not collected for this sample and should not have been listed on the chain of custody.

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 106.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.1), 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 CC3002 was reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; 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
H2G120173

Explosives

The matrix spike/matrix spike duplicate recoveries for sample CC3005 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 sample CC3005 was outside control limits for potassium due to physical or chemical matrix interferences.

The serial dilution of sample CC3005F was outside control limits for potassium due to physical or chemical matrix interferences.

Wet Chemistry

The matrix spike/matrix spike duplicate recoveries for sample were outside control limits for cyanide. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike results are, therefore, attributed to matrix effects.

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: CC3005

GC/MS Volatiles

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AC **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**1.4 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	**0.17 J**	**1.0**	**ug/L**	**0.10**
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	ND	5.0	ug/L	0.85
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	102	(77 - 128)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	113	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3005

GC/MS Volatiles

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AC **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC5002

GC/MS Volatiles

Lot-Sample #...: H2G120173-003 **Work Order #...:** E4K8Q1AA **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	**0.53 J**	**2.0**	**ug/L**	**0.18**
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	**15 B**	**2.0**	**ug/L**	**0.17**
Acetone	**4.8 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	ND	5.0	ug/L	0.85
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	**4.3**	**1.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
1,2-Dichloroethane-d4	99	(77 - 128)
Toluene-d8	93	(80 - 120)
Bromofluorobenzene	109	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC5002

GC/MS Volatiles

Lot-Sample #...: H2G120173-003 Work Order #...: E4K8Q1AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC3006

GC/MS Volatiles

Lot-Sample #...: H2G120173-004 **Work Order #...:** E4K8W1AC **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	**0.35 J**	**2.0**	**ug/L**	**0.18**
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**1.7 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	**1.7 J**	**5.0**	**ug/L**	**0.85**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(80 - 120)
1,2-Dichloroethane-d4	111	(77 - 128)
Toluene-d8	94	(80 - 120)
Bromofluorobenzene	102	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3006

GC/MS Volatiles

Lot-Sample #...: H2G120173-004 Work Order #...: E4K8W1AC Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC3002

GC/MS Volatiles

Lot-Sample #...: H2G120173-006 **Work Order #...:** E4K851AA **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1000 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	1000	ug/L	240
Toluene	**37000**	**1000**	**ug/L**	**250**
Ethylbenzene	ND	1000	ug/L	190
m-Xylene & p-Xylene	ND	1000	ug/L	390
o-Xylene	ND	1000	ug/L	230

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(80 - 120)
1,2-Dichloroethane-d4	102	(77 - 128)
Toluene-d8	87	(80 - 120)
Bromofluorobenzene	113	(72 - 129)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G120173 **Work Order #...:** E4HXV1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G110000-323

Prep Date.....: 07/12/02
Analysis Date..: 07/12/02 **Prep Batch #...:** 2192323
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	**0.57 J**	**2.0**	**ug/L**	**SW846 8260B**
Acetone	**1.3 J**	**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	ND	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	ND	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
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(80 - 120)
1,2-Dichloroethane-d4	102	(77 - 128)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G120173 **Work Order #...:** E4HXV1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Toluene-d8	94	(80 - 120)		
Bromofluorobenzene	112	(72 - 129)		

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 #...: H2G120173 **Work Order #...:** E4HXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-323 E4HXV1AD-LCSD
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(69 - 120)**			**SW846 8260B**
	106	**(69 - 120)**	**0.39**	**(0-26)**	**SW846 8260B**
Trichloroethene	**109**	**(76 - 120)**			**SW846 8260B**
	109	**(76 - 120)**	**0.030**	**(0-17)**	**SW846 8260B**
Benzene	**102**	**(76 - 120)**			**SW846 8260B**
	102	**(76 - 120)**	**0.060**	**(0-19)**	**SW846 8260B**
Toluene	**105**	**(77 - 120)**			**SW846 8260B**
	101	**(77 - 120)**	**3.6**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**108**	**(75 - 120)**			**SW846 8260B**
	108	**(75 - 120)**	**0.70**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	90	(80 - 120)
1,2-Dichloroethane-d4	97	(77 - 128)
	98	(77 - 128)
Toluene-d8	97	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	107	(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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2G120173 **Work Order #...:** E4HXV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G110000-323 E4HXV1AD-LCSD
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	10.0	**10.6**	**ug/L**	**106**	**0.39**	**SW846 8260B**
Trichloroethene	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	10.0	**10.9**	**ug/L**	**109**	**0.030**	**SW846 8260B**
Benzene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	10.0	**10.2**	**ug/L**	**102**	**0.060**	**SW846 8260B**
Toluene	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**3.6**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260B**
	10.0	**10.8**	**ug/L**	**108**	**0.70**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
	90	(80 - 120)
1,2-Dichloroethane-d4	97	(77 - 128)
	98	(77 - 128)
Toluene-d8	97	(80 - 120)
	97	(80 - 120)
Bromofluorobenzene	107	(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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2G120173 **Work Order #...:** E4K7M1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C6-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**104**	**(58 - 130)**			**SW846 8260B**
	111	**(58 - 130)**	**6.1**	**(0-26)**	**SW846 8260B**
Trichloroethene	**106**	**(50 - 152)**			**SW846 8260B**
	111	**(50 - 152)**	**3.9**	**(0-17)**	**SW846 8260B**
Benzene	**105**	**(68 - 125)**			**SW846 8260B**
	107	**(68 - 125)**	**1.2**	**(0-19)**	**SW846 8260B**
Toluene	**98**	**(66 - 127)**			**SW846 8260B**
	91	**(66 - 127)**	**7.2**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**99**	**(70 - 120)**			**SW846 8260B**
	100	**(70 - 120)**	**1.2**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	97	(80 - 120)
1,2-Dichloroethane-d4	98	(77 - 128)
	102	(77 - 128)
Toluene-d8	86	(80 - 120)
	85	(80 - 120)
Bromofluorobenzene	108	(72 - 129)
	107	(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 #...: H2G120173 **Work Order #...:** E4K7M1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C6-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2192323
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**	**11.1**	**ug/L**	**111**	**6.1**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	ND	**10.0**	**11.1**	**ug/L**	**111**	**3.9**	**SW846 8260B**
Benzene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.7**	**ug/L**	**107**	**1.2**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.0**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.30**	**ug/L**	**91**	**7.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.88**	**ug/L**	**99**		**SW846 8260B**
	ND	**10.0**	**9.99**	**ug/L**	**100**	**1.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	97	(80 - 120)
1,2-Dichloroethane-d4	98	(77 - 128)
	102	(77 - 128)
Toluene-d8	86	(80 - 120)
	85	(80 - 120)
Bromofluorobenzene	108	(72 - 129)
	107	(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: CC3005

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AD **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	0.59
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	ND	10	ug/L	0.67
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	ND	10	ug/L	0.87
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3005

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	**3.0 J,B**	**10**	**ug/L**	**0.80**
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(29 - 110)
Phenol-d5	80	(41 - 115)
Nitrobenzene-d5	82	(46 - 117)
2-Fluorobiphenyl	77	(44 - 116)
2,4,6-Tribromophenol	94	(31 - 138)
Terphenyl-d14	95	(36 - 134)

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SHAW E & I INC

Client Sample ID: CC3005

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AD **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC3006

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-004 **Work Order #...:** E4K8W1AD **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	0.59
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	ND	10	ug/L	0.67
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	ND	10	ug/L	0.87
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3006

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-004 **Work Order #...:** E4K8W1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	**3.3 J,B**	**10**	**ug/L**	**0.80**
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	90	(41 - 115)
Nitrobenzene-d5	91	(46 - 117)
2-Fluorobiphenyl	89	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	99	(36 - 134)

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SHAW E & I INC

Client Sample ID: CC3006

GC/MS Semivolatiles

Lot-Sample #...: H2G120173-004 Work Order #...: E4K8W1AD Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G120173 **Work Order #...:** E4MXR1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G130000-129

Prep Date.....: 07/13/02
Analysis Date..: 07/15/02 **Prep Batch #...:** 2194129
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G120173 **Work Order #...:** E4MXR1AA **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	**3.3 J**	**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	76	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	82	(31 - 138)
Terphenyl-d14	102	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G120173 Work Order #...: E4MXR1AA 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 Semivolatiles

Client Lot #...: H2G120173 **Work Order #...:** E4MXR1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2G130000-129
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**84**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**82**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**82**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**91**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**81**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**96**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**88**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**84**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**105**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**87**	**(64 - 114)**	**SW846 8270C**
Pyrene	**96**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	112	(31 - 138)
Terphenyl-d14	105	(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 #...: H2G120173 **Work Order #...:** E4MXR1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2G130000-129
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**83.8**	**ug/L**	**84**	**SW846 8270C**
2-Chlorophenol	**100**	**82.3**	**ug/L**	**82**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**81.5**	**ug/L**	**82**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**91.1**	**ug/L**	**91**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**81.0**	**ug/L**	**81**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**95.9**	**ug/L**	**96**	**SW846 8270C**
Acenaphthene	**100**	**87.8**	**ug/L**	**88**	**SW846 8270C**
4-Nitrophenol	**100**	**84.0**	**ug/L**	**84**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**105**	**ug/L**	**105**	**SW846 8270C**
Pentachlorophenol	**100**	**87.3**	**ug/L**	**87**	**SW846 8270C**
Pyrene	**100**	**95.5**	**ug/L**	**96**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	112	(31 - 138)
Terphenyl-d14	105	(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 #...: H2G120173 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**78**	**(58 - 103)**			**SW846 8270C**
	83	**(58 - 103)**	**1.5**	**(0-41)**	**SW846 8270C**
2-Chlorophenol	**78**	**(54 - 103)**			**SW846 8270C**
	83	**(54 - 103)**	**1.9**	**(0-43)**	**SW846 8270C**
1,4-Dichlorobenzene	**76**	**(56 - 102)**			**SW846 8270C**
	80	**(56 - 102)**	**2.1**	**(0-37)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**86**	**(61 - 108)**			**SW846 8270C**
	89	**(61 - 108)**	**3.6**	**(0-36)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**74**	**(58 - 104)**			**SW846 8270C**
	80	**(58 - 104)**	**0.0**	**(0-36)**	**SW846 8270C**
4-Chloro-3-methylphenol	**95**	**(65 - 108)**			**SW846 8270C**
	93	**(65 - 108)**	**11**	**(0-29)**	**SW846 8270C**
Acenaphthene	**83**	**(59 - 100)**			**SW846 8270C**
	82	**(59 - 100)**	**9.4**	**(0-26)**	**SW846 8270C**
4-Nitrophenol	**91**	**(50 - 122)**			**SW846 8270C**
	81	**(50 - 122)**	**19**	**(0-50)**	**SW846 8270C**
2,4-Dinitrotoluene	**102**	**(67 - 128)**			**SW846 8270C**
	96	**(67 - 128)**	**13**	**(0-25)**	**SW846 8270C**
Pentachlorophenol	**95**	**(64 - 118)**			**SW846 8270C**
	93	**(64 - 118)**	**10**	**(0-37)**	**SW846 8270C**
Pyrene	**92**	**(51 - 119)**			**SW846 8270C**
	89	**(51 - 119)**	**11**	**(0-27)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(29 - 110)
	82	(29 - 110)
Phenol-d5	85	(41 - 115)
	90	(41 - 115)
Nitrobenzene-d5	83	(46 - 117)
	90	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
	83	(44 - 116)
2,4,6-Tribromophenol	105	(31 - 138)
	100	(31 - 138)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2G120173 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	99	(36 - 134)
	95	(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 #...: H2G120173 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	**ND**	**108**	**84.7**	**ug/L**	**78**		**SW846 8270C**
	ND	**100**	**83.4**	**ug/L**	**83**	**1.5**	**SW846 8270C**
2-Chlorophenol	**ND**	**108**	**84.3**	**ug/L**	**78**		**SW846 8270C**
	ND	**100**	**82.7**	**ug/L**	**83**	**1.9**	**SW846 8270C**
1,4-Dichlorobenzene	**ND**	**108**	**81.6**	**ug/L**	**76**		**SW846 8270C**
	ND	**100**	**79.9**	**ug/L**	**80**	**2.1**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**ND**	**108**	**92.5**	**ug/L**	**86**		**SW846 8270C**
	ND	**100**	**89.2**	**ug/L**	**89**	**3.6**	**SW846 8270C**
1,2,4-Trichloro-benzene	**ND**	**108**	**80.2**	**ug/L**	**74**		**SW846 8270C**
	ND	**100**	**80.2**	**ug/L**	**80**	**0.0**	**SW846 8270C**
4-Chloro-3-methylphenol	**ND**	**108**	**103**	**ug/L**	**95**		**SW846 8270C**
	ND	**100**	**92.7**	**ug/L**	**93**	**11**	**SW846 8270C**
Acenaphthene	**ND**	**108**	**89.7**	**ug/L**	**83**		**SW846 8270C**
	ND	**100**	**81.6**	**ug/L**	**82**	**9.4**	**SW846 8270C**
4-Nitrophenol	**ND**	**108**	**98.3**	**ug/L**	**91**		**SW846 8270C**
	ND	**100**	**80.9**	**ug/L**	**81**	**19**	**SW846 8270C**
2,4-Dinitrotoluene	**ND**	**108**	**110**	**ug/L**	**102**		**SW846 8270C**
	ND	**100**	**96.2**	**ug/L**	**96**	**13**	**SW846 8270C**
Pentachlorophenol	**ND**	**108**	**103**	**ug/L**	**95**		**SW846 8270C**
	ND	**100**	**92.8**	**ug/L**	**93**	**10**	**SW846 8270C**
Pyrene	**ND**	**108**	**99.4**	**ug/L**	**92**		**SW846 8270C**
	ND	**100**	**89.0**	**ug/L**	**89**	**11**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(29 - 110)
	82	(29 - 110)
Phenol-d5	85	(41 - 115)
	90	(41 - 115)
Nitrobenzene-d5	83	(46 - 117)
	90	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
	83	(44 - 116)
2,4,6-Tribromophenol	105	(31 - 138)
	100	(31 - 138)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2G120173 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	99	(36 - 134)
	95	(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: CC3005

HPLC

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M1AA **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2193352
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	101	(53 - 133)

SHAW E & I INC

Client Sample ID: CC3006

HPLC

Lot-Sample #...: H2G120173-004 Work Order #...: E4K8W1AA Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02
Prep Date.....: 07/12/02 Analysis Date..: 07/12/02
Prep Batch #...: 2193352
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	115	(53 - 133)

METHOD BLANK REPORT

HPLC

Client Lot #...: H2G120173 **Work Order #...:** E4LN21AA **Matrix.....:** WATER
MB Lot-Sample #: H2G120000-352

Prep Date.....: 07/12/02
Analysis Date..: 07/12/02 **Prep Batch #...:** 2193352
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	101	(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 #...: H2G120173 Work Order #...: E4LN21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: H2G120000-352 E4LN21AD-LCSD
Prep Date.....: 07/12/02 Analysis Date..: 07/12/02
Prep Batch #...: 2193352
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**99**	**(68 - 122)**			**SW846 8330**
	91	**(68 - 122)**	**7.9**	**(0-25)**	**SW846 8330**
RDX	**106**	**(71 - 127)**			**SW846 8330**
	97	**(71 - 127)**	**8.9**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**100**	**(70 - 124)**			**SW846 8330**
	94	**(70 - 124)**	**6.1**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**101**	**(72 - 124)**			**SW846 8330**
	94	**(72 - 124)**	**7.1**	**(0-25)**	**SW846 8330**
Tetryl	**99**	**(68 - 123)**			**SW846 8330**
	94	**(68 - 123)**	**4.8**	**(0-26)**	**SW846 8330**
Nitrobenzene	**94**	**(60 - 122)**			**SW846 8330**
	87	**(60 - 122)**	**8.0**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**100**	**(71 - 123)**			**SW846 8330**
	94	**(71 - 123)**	**6.6**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**89**	**(66 - 122)**			**SW846 8330**
	83	**(66 - 122)**	**7.1**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**92**	**(65 - 124)**			**SW846 8330**
	85	**(65 - 124)**	**8.0**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**101**	**(66 - 129)**			**SW846 8330**
	94	**(66 - 129)**	**7.8**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**100**	**(70 - 125)**			**SW846 8330**
	92	**(70 - 125)**	**8.2**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**87**	**(54 - 121)**			**SW846 8330**
	78	**(54 - 121)**	**11**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**91**	**(59 - 123)**			**SW846 8330**
	81	**(59 - 123)**	**11**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**92**	**(58 - 124)**			**SW846 8330**
	83	**(58 - 124)**	**10**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(53 - 133)
	102	(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 #...: H2G120173 Work Order #...: E4LN21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: H2G120000-352 E4LN21AD-LCSD
Prep Date.....: 07/12/02 Analysis Date..: 07/12/02
Prep Batch #...: 2193352
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	3.00	2.97	ug/L	99		SW846 8330
	3.00	2.74	ug/L	91	7.9	SW846 8330
RDX	3.00	3.19	ug/L	106		SW846 8330
	3.00	2.91	ug/L	97	8.9	SW846 8330
1,3,5-Trinitrobenzene	3.00	3.00	ug/L	100		SW846 8330
	3.00	2.82	ug/L	94	6.1	SW846 8330
1,3-Dinitrobenzene	3.00	3.03	ug/L	101		SW846 8330
	3.00	2.82	ug/L	94	7.1	SW846 8330
Tetryl	3.00	2.96	ug/L	99		SW846 8330
	3.00	2.82	ug/L	94	4.8	SW846 8330
Nitrobenzene	3.00	2.82	ug/L	94		SW846 8330
	3.00	2.60	ug/L	87	8.0	SW846 8330
2,4,6-Trinitrotoluene	3.00	3.00	ug/L	100		SW846 8330
	3.00	2.81	ug/L	94	6.6	SW846 8330
4-Amino-2,6-dinitrotoluene	3.00	2.68	ug/L	89		SW846 8330
	3.00	2.50	ug/L	83	7.1	SW846 8330
2-Amino-4,6-dinitrotoluene	3.00	2.77	ug/L	92		SW846 8330
	3.00	2.55	ug/L	85	8.0	SW846 8330
2,6-Dinitrotoluene	3.00	3.04	ug/L	101		SW846 8330
	3.00	2.81	ug/L	94	7.8	SW846 8330
2,4-Dinitrotoluene	3.00	2.99	ug/L	100		SW846 8330
	3.00	2.76	ug/L	92	8.2	SW846 8330
2-Nitrotoluene	3.00	2.60	ug/L	87		SW846 8330
	3.00	2.33	ug/L	78	11	SW846 8330
4-Nitrotoluene	3.00	2.72	ug/L	91		SW846 8330
	3.00	2.43	ug/L	81	11	SW846 8330
3-Nitrotoluene	3.00	2.76	ug/L	92		SW846 8330
	3.00	2.48	ug/L	83	10	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(53 - 133)
	102	(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 #...: H2G120173 **Work Order #...:** E4K7M1C3-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C4-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/12/02 **Analysis Date..:** 07/12/02
Prep Batch #...: 2193352
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**88**	**(61 - 132)**			**SW846 8330**
	90	**(61 - 132)**	**2.6**	**(0-40)**	**SW846 8330**
RDX	**101**	**(30 - 191)**			**SW846 8330**
	97	**(30 - 191)**	**3.9**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**86**	**(70 - 124)**			**SW846 8330**
	88	**(70 - 124)**	**1.6**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**84**	**(72 - 130)**			**SW846 8330**
	87	**(72 - 130)**	**4.4**	**(0-42)**	**SW846 8330**
Tetryl	**0.0 a**	**(55 - 125)**			**SW846 8330**
	0.0 a	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**83**	**(59 - 136)**			**SW846 8330**
	88	**(59 - 136)**	**6.0**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**87**	**(71 - 123)**			**SW846 8330**
	90	**(71 - 123)**	**4.0**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**79**	**(66 - 124)**			**SW846 8330**
	82	**(66 - 124)**	**4.1**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**80**	**(64 - 134)**			**SW846 8330**
	83	**(64 - 134)**	**3.8**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**89**	**(66 - 136)**			**SW846 8330**
	92	**(66 - 136)**	**3.8**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**88**	**(70 - 133)**			**SW846 8330**
	90	**(70 - 133)**	**3.1**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**76**	**(54 - 136)**			**SW846 8330**
	81	**(54 - 136)**	**6.2**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**78**	**(59 - 131)**			**SW846 8330**
	82	**(59 - 131)**	**5.2**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**86**	**(58 - 133)**			**SW846 8330**
	95	**(58 - 133)**	**9.5**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	113	(53 - 133)
	119	(53 - 133)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: H2G120173 Work Order #...: E4K7M1C3-MS Matrix.....: WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C4-MSD
Date Sampled...: 07/11/02 Date Received..: 07/12/02
Prep Date.....: 07/12/02 Analysis Date..: 07/12/02
Prep Batch #...: 2193352
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	**ND**	**3.00**	**2.64**	**ug/L**	**88**		**SW846 8330**
	ND	**3.00**	**2.71**	**ug/L**	**90**	**2.6**	**SW846 8330**
RDX	**ND**	**3.00**	**3.02**	**ug/L**	**101**		**SW846 8330**
	ND	**3.00**	**2.90**	**ug/L**	**97**	**3.9**	**SW846 8330**
1,3,5-Trinitrobenzene	**ND**	**3.00**	**2.59**	**ug/L**	**86**		**SW846 8330**
	ND	**3.00**	**2.64**	**ug/L**	**88**	**1.6**	**SW846 8330**
1,3-Dinitrobenzene	**ND**	**3.00**	**2.51**	**ug/L**	**84**		**SW846 8330**
	ND	**3.00**	**2.62**	**ug/L**	**87**	**4.4**	**SW846 8330**
Tetryl	**ND**	**3.00**	**0.0**	**ug/L**	**0.0 a**		**SW846 8330**
	ND	**3.00**	**0.0**	**ug/L**	**0.0 a**	**0.0**	**SW846 8330**
Nitrobenzene	**ND**	**3.00**	**2.49**	**ug/L**	**83**		**SW846 8330**
	ND	**3.00**	**2.64**	**ug/L**	**88**	**6.0**	**SW846 8330**
2,4,6-Trinitrotoluene	**ND**	**3.00**	**2.61**	**ug/L**	**87**		**SW846 8330**
	ND	**3.00**	**2.71**	**ug/L**	**90**	**4.0**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**ND**	**3.00**	**2.36**	**ug/L**	**79**		**SW846 8330**
	ND	**3.00**	**2.46**	**ug/L**	**82**	**4.1**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**ND**	**3.00**	**2.40**	**ug/L**	**80**		**SW846 8330**
	ND	**3.00**	**2.49**	**ug/L**	**83**	**3.8**	**SW846 8330**
2,6-Dinitrotoluene	**ND**	**3.00**	**2.66**	**ug/L**	**89**		**SW846 8330**
	ND	**3.00**	**2.76**	**ug/L**	**92**	**3.8**	**SW846 8330**
2,4-Dinitrotoluene	**ND**	**3.00**	**2.63**	**ug/L**	**88**		**SW846 8330**
	ND	**3.00**	**2.71**	**ug/L**	**90**	**3.1**	**SW846 8330**
2-Nitrotoluene	**ND**	**3.00**	**2.28**	**ug/L**	**76**		**SW846 8330**
	ND	**3.00**	**2.42**	**ug/L**	**81**	**6.2**	**SW846 8330**
4-Nitrotoluene	**ND**	**3.00**	**2.34**	**ug/L**	**78**		**SW846 8330**
	ND	**3.00**	**2.46**	**ug/L**	**82**	**5.2**	**SW846 8330**
3-Nitrotoluene	**ND**	**3.00**	**2.59**	**ug/L**	**86**		**SW846 8330**
	ND	**3.00**	**2.85**	**ug/L**	**95**	**9.5**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	113	(53 - 133)
	119	(53 - 133)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CC3005

TOTAL Metals

Lot-Sample #...: H2G120173-001 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4K7M1A5
		Dilution Factor: 1		Analysis Time..: 15:14	MDL.....: 0.060	
Prep Batch #...: 2195098						
Aluminum	**44.6 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AE**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AF
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AG
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 2.5	
Barium	**164 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AH**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AJ
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AK
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 0.50	
Calcium	**183000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AL**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AM
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AN
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AP
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.9	
Iron	**103**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AQ**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AR
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3005

TOTAL Metals

Lot-Sample #...: H2G120173-001 | **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**69100**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AT**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 21.8	
Manganese	**95.6**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AU**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AV
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.9	
Potassium	**11400**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1AW**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1AX
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1A0
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.9	
Sodium	**92300**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K7M1A1**
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1A2
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1A3
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/16/02	E4K7M1A4
		Dilution Factor: 1		Analysis Time..: 11:20	MDL.....: 2.6	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3005

DISSOLVED Metals

Lot-Sample #...: H2G120173-002 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4K8L1DH
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.060	
Prep Batch #...: 2195097						
Aluminum	**97.8 B,J**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1AA**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1AE
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1AH
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 2.5	
Barium	**160 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1AL**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1AP
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1AT
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 0.50	
Calcium	**187000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1AW**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1A1
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1A4
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1A7
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.9	
Iron	**59.8 B**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1CA**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1CE
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3005

DISSOLVED Metals

Lot-Sample #...: H2G120173-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**74100**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1CH**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 21.8	
Manganese	**94.0**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1CL**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1CP
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.9	
Potassium	**12100**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1CT**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1CW
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1C1
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.9	
Sodium	**97600**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1C4**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 357	
Thallium	**6.4 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K8L1C7**
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1DA
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/15/02	E4K8L1DE
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 2.6	

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: CC3006

TOTAL Metals

Lot-Sample #...: H2G120173-004 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4K8W1A5
		Dilution Factor: 1		Analysis Time..: 15:20	MDL.....: 0.060	
Prep Batch #...: 2195098						
Aluminum	**59.8 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AE**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AF
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AG
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 2.5	
Barium	**167 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AH**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AJ
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AK
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 0.50	
Calcium	**188000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AL**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AM
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.2	
Cobalt	**5.2 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AN**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AP
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.9	
Iron	**111**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AQ**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AR
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3006

TOTAL Metals

Lot-Sample #...: H2G120173-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**71100**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AT**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 21.8	
Manganese	**98.3**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AU**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AV
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.9	
Potassium	**11900**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1AW**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1AX
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1A0
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.9	
Sodium	**96600**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4K8W1A1**
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1A2
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1A3
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/16/02	E4K8W1A4
		Dilution Factor: 1		Analysis Time..: 11:47	MDL.....: 2.6	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3006

DISSOLVED Metals

Lot-Sample #...: H2G120173-005 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4K831A2
		Dilution Factor: 1		Analysis Time..: 15:58	MDL.....: 0.060	
Prep Batch #...: 2195097						
Aluminum	**105 B,J**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AE**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AF
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AG
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 2.5	
Barium	**162 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AH**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AJ
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AK
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Calcium	**172000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AL**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AA
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AC
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AD
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.9	
Iron	**65.3 B**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AQ**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AR
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3006

DISSOLVED Metals

Lot-Sample #...: H2G120173-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**67800**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AT**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 21.8	
Manganese	**88.4**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AU**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AV
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.9	
Potassium	**11100**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AW**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AX
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AM
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.9	
Sodium	**89700**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4K831AN**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831AP
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831A0
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/15/02	E4K831A1
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 2.6	

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 #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-091 **Prep Batch #...:** 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ41AA
		Dilution Factor: 1				
		Analysis Time..: 15:02				
MB Lot-Sample #: H2G140000-098 **Prep Batch #...:** 2195098						
Aluminum	ND	200	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AA
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AC
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AD
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Barium	ND	200	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AE
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AF
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AG
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Calcium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AH
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AJ
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AK
		Dilution Factor: 1				
		Analysis Time..: 10:53				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AL
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Iron	ND	100	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AM
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AN
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Magnesium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AP
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Manganese	ND	15.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AQ
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AR
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Potassium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AT
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AU
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AV
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Sodium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AW
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AX
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1A0
		Dilution Factor: 1				
		Analysis Time..: 10:53				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1A1

Dilution Factor: 1
Analysis Time..: 10:53

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091					
Mercury	104	(90 - 110)	SW846 7470A Dilution Factor: 1 Analysis Time..: 15:09	07/14/02	E4NJ41AC
LCS Lot-Sample#: H2G140000-098 **Prep Batch #...:** 2195098					
Aluminum	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A2
Antimony	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A3
Arsenic	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A4
Barium	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A5
Beryllium	103	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A6
Cadmium	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A7
Calcium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A8
Chromium	100	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1A9
Cobalt	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 10:58	07/14-07/16/02	E4NKA1CA

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	99	(88 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CC
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Iron	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CD
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Lead	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CE
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Magnesium	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CF
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Manganese	102	(90 - 111)	SW846 6010B	07/14-07/16/02	E4NKA1CG
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Nickel	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CH
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Potassium	97	(89 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CJ
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Selenium	102	(90 - 114)	SW846 6010B	07/14-07/16/02	E4NKA1CK
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Silver	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CL
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Sodium	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CM
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Thallium	101	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CN
		Dilution Factor: 1			
		Analysis Time..: 10:58			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CP
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Zinc	106	(90 - 115)	SW846 6010B	07/14-07/16/02	E4NKA1CQ
		Dilution Factor: 1			
		Analysis Time..: 10:58			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091							
Mercury	5.00	5.19	ug/L	104	SW846 7470A	07/14/02	E4NJ41AC
			Dilution Factor: 1				
			Analysis Time..: 15:09				
LCS Lot-Sample#: H2G140000-098 **Prep Batch #...:** 2195098							
Aluminum	2000	2010	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A2
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Antimony	500	502	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A3
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Arsenic	2000	2020	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1A4
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Barium	2000	1970	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1A5
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Beryllium	50.0	51.6	ug/L	103	SW846 6010B	07/14-07/16/02	E4NKA1A6
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Cadmium	50.0	50.5	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1A7
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Calcium	50000	49900	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A8
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Chromium	200	201	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A9
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Cobalt	500	506	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1CA
			Dilution Factor: 1				
			Analysis Time..: 10:58				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	250	246	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CC
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Iron	1000	986	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CD
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Lead	500	500	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CE
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Magnesium	50000	49400	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CF
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Manganese	500	512	ug/L	102	SW846 6010B	07/14-07/16/02	E4NKA1CG
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Nickel	500	502	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CH
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Potassium	50000	48500	ug/L	97	SW846 6010B	07/14-07/16/02	E4NKA1CJ
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Selenium	2000	2050	ug/L	102	SW846 6010B	07/14-07/16/02	E4NKA1CK
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Silver	50.0	49.6	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CL
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Sodium	50000	50000	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CM
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Thallium	2000	2010	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1CN
			Dilution Factor: 1				
			Analysis Time..: 10:58				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	500	498	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CP
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Zinc	500	528	ug/L	106	SW846 6010B	07/14-07/16/02	E4NKA1CQ
			Dilution Factor: 1				
			Analysis Time..: 10:58				

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-092 Prep Batch #...: 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ61AA
		Dilution Factor: 1				
		Analysis Time..: 15:40				
MB Lot-Sample #: H2G140000-097 Prep Batch #...: 2195097						
Aluminum	**56.9 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4NJ81AA**
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AC
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AD
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Barium	ND	200	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AE
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AF
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AG
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Calcium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AH
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AJ
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AK
		Dilution Factor: 1				
		Analysis Time..: 16:35				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AL
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Iron	ND	100	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AM
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AN
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Magnesium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AP
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Manganese	ND	15.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AQ
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AR
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Potassium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AT
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AU
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AV
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Sodium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AW
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AX
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81A0
		Dilution Factor: 1				
		Analysis Time..: 16:35				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81A1

Dilution Factor: 1
Analysis Time..: 16:35

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 #...: H2G120173 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092					
Mercury	105	(90 - 110)	SW846 7470A Dilution Factor: 1 Analysis Time..: 15:42	07/14/02	E4NJ61AC
LCS Lot-Sample#: H2G140000-097 **Prep Batch #...:** 2195097					
Aluminum	102	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A2
Antimony	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A3
Arsenic	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A4
Barium	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A5
Beryllium	102	(90 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A6
Cadmium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A7
Calcium	96	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A8
Chromium	97	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81A9
Cobalt	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CA

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	96	(88 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CC
Iron	96	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CD
Lead	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CE
Magnesium	100	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CF
Manganese	100	(90 - 111)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CG
Nickel	99	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CH
Potassium	96	(89 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CJ
Selenium	104	(90 - 114)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CK
Silver	98	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CL
Sodium	97	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CM
Thallium	101	(90 - 110)	SW846 6010B Dilution Factor: 1 Analysis Time..: 16:40	07/14-07/15/02	E4NJ81CN

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	99	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CP
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Zinc	106	(90 - 115)	SW846 6010B	07/14-07/15/02	E4NJ81CQ
		Dilution Factor: 1			
		Analysis Time..: 16:40			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092							
Mercury	5.00	5.24	ug/L	105	SW846 7470A	07/14/02	E4NJ61AC
			Dilution Factor: 1				
			Analysis Time..: 15:42				
LCS Lot-Sample#: H2G140000-097 **Prep Batch #...:** 2195097							
Aluminum	2000	2050	ug/L	102	SW846 6010B	07/14-07/15/02	E4NJ81A2
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Antimony	500	492	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81A3
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Arsenic	2000	2010	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81A4
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Barium	2000	1980	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81A5
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Beryllium	50.0	50.8	ug/L	102	SW846 6010B	07/14-07/15/02	E4NJ81A6
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Cadmium	50.0	50.0	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81A7
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Calcium	50000	48200	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81A8
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Chromium	200	194	ug/L	97	SW846 6010B	07/14-07/15/02	E4NJ81A9
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Cobalt	500	505	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81CA
			Dilution Factor: 1				
			Analysis Time..: 16:40				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	250	241	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CC
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Iron	1000	963	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CD
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Lead	500	490	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81CE
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Magnesium	50000	49900	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81CF
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Manganese	500	502	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81CG
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Nickel	500	493	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81CH
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Potassium	50000	47800	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CJ
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Selenium	2000	2070	ug/L	104	SW846 6010B	07/14-07/15/02	E4NJ81CK
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Silver	50.0	48.8	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81CL
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Sodium	50000	48300	ug/L	97	SW846 6010B	07/14-07/15/02	E4NJ81CM
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Thallium	2000	2030	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81CN
			Dilution Factor: 1				
			Analysis Time..: 16:40				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	500	493	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81CP
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Zinc	500	528	ug/L	106	SW846 6010B	07/14-07/15/02	E4NJ81CQ
			Dilution Factor: 1				
			Analysis Time..: 16:40				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 Prep Batch #...: 2195092							
Mercury	108	(73 - 125)			SW846 7470A	07/14/02	E4K8L1DJ
	107	(73 - 125)	0.93	(0-20)	SW846 7470A	07/14/02	E4K8L1DK
		Dilution Factor: 1					
		Analysis Time..: 15:50					
MS Lot-Sample #: H2G120173-002 Prep Batch #...: 2195097							
Aluminum	101	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AC
	101	(75 - 125)	0.23	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Antimony	99	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AF
	99	(75 - 125)	0.45	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AG
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Arsenic	102	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AJ
	102	(75 - 125)	0.15	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AK
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Barium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AM
	100	(75 - 125)	0.27	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AN
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Beryllium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AQ
	100	(75 - 125)	0.04	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AR
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Cadmium	97	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AU
	97	(75 - 125)	0.26	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AV
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Calcium	76	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AX
	83	(75 - 125)	1.5	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A0
		Dilution Factor: 1					
		Analysis Time..: 16:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A2
	96	(75 - 125)	0.09	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A3
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Cobalt	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A5
	100	(75 - 125)	0.34	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A6
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Copper	98	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A8
	97	(75 - 125)	0.22	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A9
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Iron	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CC
	94	(75 - 125)	2.2	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Lead	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CF
	96	(75 - 125)	0.55	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CG
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Magnesium	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CJ
	99	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CK
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Manganese	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CM
	100	(75 - 125)	0.13	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CN
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Nickel	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CQ
	96	(75 - 125)	0.45	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CR
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Potassium	104	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CU
	104	(75 - 125)	0.57	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CV
		Dilution Factor: 1					
		Analysis Time..: 16:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	97	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CX
	98	(75 - 125)	0.48	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C0
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Silver	99	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C2
	99	(75 - 125)	0.22	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C3
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Sodium	89	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C5
	94	(75 - 125)	1.6	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C6
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Thallium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C8
	100	(75 - 125)	0.17	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C9
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Vanadium	98	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1DC
	98	(75 - 125)	0.23	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1DD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Zinc	105	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1DF
	105	(75 - 125)	0.11	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1DG
		Dilution Factor: 1					
		Analysis Time..: 16:49					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195092									
Mercury									
	ND	1.00	1.08	ug/L	108		SW846 7470A	07/14/02	E4K8L1D
	ND	1.00	1.07	ug/L	107	0.93	SW846 7470A	07/14/02	E4K8L1D
			Dilution Factor: 1						
			Analysis Time..: 15:50						
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195097									
Aluminum									
	97.8	2000	2110	ug/L	101		SW846 6010B	07/14-07/15/02	E4K8L1A
	97.8	2000	2110	ug/L	101	0.23	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Antimony									
	ND	500	497	ug/L	99		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	500	495	ug/L	99	0.45	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Arsenic									
	ND	2000	2050	ug/L	102		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	2000	2050	ug/L	102	0.15	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Barium									
	160	2000	2150	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1A
	160	2000	2160	ug/L	100	0.27	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Beryllium									
	ND	50.0	50.1	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	50.0	50.1	ug/L	100	0.04	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Cadmium									
	ND	50.0	48.6	ug/L	97		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	50.0	48.7	ug/L	97	0.26	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	187000	50000	225000	ug/L	76		SW846 6010B	07/14-07/15/02	E4K8L1A
	187000	50000	229000	ug/L	83	1.5	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Chromium									
	ND	200	191	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	200	191	ug/L	96	0.09	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Cobalt									
	ND	500	500	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	500	498	ug/L	100	0.34	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Copper									
	ND	250	244	ug/L	98		SW846 6010B	07/14-07/15/02	E4K8L1A
	ND	250	244	ug/L	97	0.22	SW846 6010B	07/14-07/15/02	E4K8L1A
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Iron									
	59.8	1000	1020	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1C
	59.8	1000	999	ug/L	94	2.2	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Lead									
	ND	500	480	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1C
	ND	500	482	ug/L	96	0.55	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Magnesium									
	74100	50000	122000	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1C
	74100	50000	124000	ug/L	99	1.2	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	94.0	500	592	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1C
	94.0	500	593	ug/L	100	0.13	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Nickel									
	ND	500	482	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1C
	ND	500	479	ug/L	96	0.45	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Potassium									
	12100	50000	63900	ug/L	104		SW846 6010B	07/14-07/15/02	E4K8L1C
	12100	50000	64300	ug/L	104	0.57	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Selenium									
	ND	2000	1950	ug/L	97		SW846 6010B	07/14-07/15/02	E4K8L1C
	ND	2000	1960	ug/L	98	0.48	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Silver									
	ND	50.0	49.3	ug/L	99		SW846 6010B	07/14-07/15/02	E4K8L1C
	ND	50.0	49.4	ug/L	99	0.22	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Sodium									
	97600	50000	142000	ug/L	89		SW846 6010B	07/14-07/15/02	E4K8L1C
	97600	50000	145000	ug/L	94	1.6	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Thallium									
	6.4	2000	2000	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1C
	6.4	2000	2000	ug/L	100	0.17	SW846 6010B	07/14-07/15/02	E4K8L1C
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	490	ug/L	98		SW846 6010B	07/14-07/15/02	E4K8L1D
	ND	500	489	ug/L	98	0.23	SW846 6010B	07/14-07/15/02	E4K8L1D
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Zinc									
	ND	500	525	ug/L	105		SW846 6010B	07/14-07/15/02	E4K8L1D
	ND	500	525	ug/L	105	0.11	SW846 6010B	07/14-07/15/02	E4K8L1D
			Dilution Factor: 1						
			Analysis Time..: 16:49						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 Prep Batch #...: 2195091							
Mercury	99	(73 - 125)			SW846 7470A	07/14/02	E4K7M1CU
	101	(73 - 125)	1.8	(0-20)	SW846 7470A	07/14/02	E4K7M1CV
		Dilution Factor: 1					
		Analysis Time..: 15:16					
MS Lot-Sample #: H2G120173-001 Prep Batch #...: 2195098							
Aluminum	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1C9
	101	(75 - 125)	0.75	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DA
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Antimony	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DC
	101	(75 - 125)	0.84	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DD
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Arsenic	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DE
	101	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DF
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Barium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DG
	98	(75 - 125)	0.96	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DH
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Beryllium	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DJ
	101	(75 - 125)	0.72	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DK
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cadmium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DL
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DM
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Calcium	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DN
	87	(75 - 125)	2.7	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DP
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DQ
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DR
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cobalt	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DT
	100	(75 - 125)	0.82	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DU
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Copper	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DV
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DW
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Iron	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DX
	97	(75 - 125)	1.4	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D0
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Lead	98	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D1
	97	(75 - 125)	0.74	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D2
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Magnesium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D3
	98	(75 - 125)	2.3	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D4
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Manganese	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D5
	101	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D6
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Nickel	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D7
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D8
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Potassium	106	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D9
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1EA
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	96	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1EC
	96	(75 - 125)	0.49	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1ED
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Silver	101	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CH
	100	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CJ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Sodium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CK
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CL
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Thallium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CM
	99	(75 - 125)	0.67	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CN
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Vanadium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CP
	98	(75 - 125)	0.62	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CQ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Zinc	105	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CR
	105	(75 - 125)	0.68	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CT
		Dilution Factor: 1					
		Analysis Time..: 11:25					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091									
Mercury									
	ND	1.00	0.992	ug/L	99		SW846 7470A	07/14/02	E4K7M1C
	ND	1.00	1.01	ug/L	101	1.8	SW846 7470A	07/14/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 15:16						
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195098									
Aluminum									
	44.6	2000	2080	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1C
	44.6	2000	2070	ug/L	101	0.75	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	504	ug/L	101	0.84	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Arsenic									
	ND	2000	2050	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	2000	2030	ug/L	101	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Barium									
	164	2000	2150	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	164	2000	2130	ug/L	98	0.96	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	50.0	50.6	ug/L	101	0.72	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cadmium									
	ND	50.0	49.5	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	50.0	49.0	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	183000	50000	233000	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1D
	183000	50000	227000	ug/L	87	2.7	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Chromium									
	ND	200	199	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	200	197	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cobalt									
	ND	500	502	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	498	ug/L	100	0.82	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Copper									
	ND	250	249	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	250	246	ug/L	98	1.1	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Iron									
	103	1000	1090	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	103	1000	1080	ug/L	97	1.4	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Lead									
	ND	500	488	ug/L	98		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	485	ug/L	97	0.74	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Magnesium									
	69100	50000	121000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1D
	69100	50000	118000	ug/L	98	2.3	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	95.6	500	606	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	95.6	500	599	ug/L	101	1.2	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Nickel									
	ND	500	494	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	489	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Potassium									
	11400	50000	64400	ug/L	106		SW846 6010B	07/14-07/16/02	E4K7M1D
	11400	50000	63400	ug/L	104	1.6	SW846 6010B	07/14-07/16/02	E4K7M1E
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Selenium									
	ND	2000	1930	ug/L	96		SW846 6010B	07/14-07/16/02	E4K7M1E
	ND	2000	1920	ug/L	96	0.49	SW846 6010B	07/14-07/16/02	E4K7M1E
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Silver									
	ND	50.0	50.6	ug/L	101		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	50.0	50.0	ug/L	100	1.2	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Sodium									
	92300	50000	144000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1C
	92300	50000	140000	ug/L	96	2.5	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Thallium									
	ND	2000	1990	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	2000	1970	ug/L	99	0.67	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	495	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	500	492	ug/L	98	0.62	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Zinc									
	ND	500	526	ug/L	105		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	500	523	ug/L	105	0.68	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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: CC3005

General Chemistry

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**219**	**5.0**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
	Dilution Factor: 5		MDL.....: 1.5			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**772**	**25.0**	**mg/L**	**MCAWW 130.2**	**07/14/02**	**2195123**
	Dilution Factor: 5		MDL.....: 10.5			
Nitrate	ND	0.10	mg/L	MCAWW 353.2	07/12/02	2193453
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	**416**	**100**	**mg/L**	**MCAWW 375.4**	**07/15/02**	**2196140**
	Dilution Factor: 20		MDL.....: 3.6			
Total Alkalinity	**329**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/12/02**	**2196113**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**1180**	**20.0**	**mg/L**	**MCAWW 160.1**	**07/15-07/16/02**	**2196233**
	Dilution Factor: 2		MDL.....: 8.6			
Total Organic Carbon	**2.7**	**1.0**	**mg/L**	**SW846 9060**	**07/13/02**	**2196101**
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	**5.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/15/02**	**2196240**
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**23.6**	**0.50**	**NTU**	**MCAWW 180.1**	**07/12/02**	**2193459**
	Dilution Factor: 1		MDL.....: 0.50			

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AA		MB Lot-Sample #:	A2G150000-143	
	ND	1.0	mg/L	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E4V1H1AA		MB Lot-Sample #:	H2G170000-392	
	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E4NK81AA		MB Lot-Sample #:	A2G140000-123	
	ND	5.0	mg/L	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1				
Nitrate		Work Order #: E4MJ41AA		MB Lot-Sample #:	A2G120000-453	
	ND	0.10	mg/L	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1				
Sulfate		Work Order #: E4NPD1AA		MB Lot-Sample #:	A2G150000-140	
	ND	5.0	mg/L	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1				
Total Alkalinity		Work Order #: E4NML1AA		MB Lot-Sample #:	A2G150000-113	
	ND	5.0	mg/L	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: E4NVQ1AA		MB Lot-Sample #:	A2G150000-233	
	ND	10.0	mg/L	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E4NLP1AA		MB Lot-Sample #:	A2G150000-101	
	ND	1.0	mg/L	SW846 9060	07/13/02	2196101
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: E4NVR1AA		MB Lot-Sample #:	A2G150000-240	
	ND	4.0	mg/L	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1				
Turbidity		Work Order #: E4MK61AA		MB Lot-Sample #:	A2G120000-459	
	ND	0.50	NTU	MCAWW 180.1	07/12/02	2193459
		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 #...: H2G120173 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AC	LCS Lot-Sample#: A2G150000-143		
	94	(90 - 115)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E4V1H1AC	LCS Lot-Sample#: H2G170000-392		
	100	(88 - 113)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E4NK81AC	LCS Lot-Sample#: A2G140000-123		
	102	(84 - 116)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1			
Nitrate		Work Order #: E4MJ41AC	LCS Lot-Sample#: A2G120000-453		
	106	(77 - 116)	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1			
Sulfate		Work Order #: E4NPD1AC	LCS Lot-Sample#: A2G150000-140		
	101	(80 - 112)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1			
Total Alkalinity		Work Order #: E4NML1AC	LCS Lot-Sample#: A2G150000-113		
	112	(90 - 127)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: E4NVQ1AC	LCS Lot-Sample#: A2G150000-233		
	97	(69 - 120)	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E4NLP1AC	LCS Lot-Sample#: A2G150000-101		
	95	(88 - 115)	SW846 9060	07/13/02	2196101
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: E4NVR1AC	LCS Lot-Sample#: A2G150000-240		
	104	(66 - 119)	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1			
Turbidity		Work Order #: E4MK61AC	LCS Lot-Sample#: A2G120000-459		
	93	(75 - 125)	MCAWW 180.1	07/12/02	2193459
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **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 #...: H2G120173 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	E4NPK1AC	LCS Lot-Sample#:	A2G150000-143	
	233	219	mg/L	94	MCAWW 325.2	07/15/02	2196143
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	E4V1H1AC	LCS Lot-Sample#:	H2G170000-392	
	0.200	0.200	mg/L	100	SW846 9012A	07/16/02	2198392
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	E4NK81AC	LCS Lot-Sample#:	A2G140000-123	
	163	167	mg/L	102	MCAWW 130.2	07/14/02	2195123
			Dilution Factor: 1				
Nitrate			Work Order #:	E4MJ41AC	LCS Lot-Sample#:	A2G120000-453	
	1.00	1.06	mg/L	106	MCAWW 353.2	07/12/02	2193453
			Dilution Factor: 1				
Sulfate			Work Order #:	E4NPD1AC	LCS Lot-Sample#:	A2G150000-140	
	58.5	59.1	mg/L	101	MCAWW 375.4	07/15/02	2196140
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	E4NML1AC	LCS Lot-Sample#:	A2G150000-113	
	98.8	111	mg/L	112	MCAWW 310.1	07/12/02	2196113
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	E4NVQ1AC	LCS Lot-Sample#:	A2G150000-233	
	314	304	mg/L	97	MCAWW 160.1	07/15-07/16/02	2196233
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	E4NLP1AC	LCS Lot-Sample#:	A2G150000-101	
	59.0	56.3	mg/L	95	SW846 9060	07/13/02	2196101
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	E4NVR1AC	LCS Lot-Sample#:	A2G150000-240	
	62.8	65.0	mg/L	104	MCAWW 160.2	07/15/02	2196240
			Dilution Factor: 1				
Turbidity			Work Order #:	E4MK61AC	LCS Lot-Sample#:	A2G120000-459	
	1.00	0.930	NTU	93	MCAWW 180.1	07/12/02	2193459
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G120173 **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.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	E4K7M1EE-MS/E4K7M1EF-MSD			MS Lot-Sample #:	H2G120173-001
	NC,MSB	(43 - 167)			MCAWW 325.2	07/15/02	2196143
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1					
Cyanide, Total		WO#:	E4K7M1CW-MS/E4K7M1CX-MSD			MS Lot-Sample #:	H2G120173-001
	74 N	(77 - 126)			SW846 9012A	07/16/02	2198392
	48 N,*	(77 - 126)	42	(0-20)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	E4K3Q1CR-MS/E4K3Q1CT-MSD			MS Lot-Sample #:	A2G120163-001
	93	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	95	(10 - 176)	1.2	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	E4K7M1EP-MS/E4K7M1EQ-MSD			MS Lot-Sample #:	H2G120173-001
	105	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	105	(10 - 176)	0.0	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Nitrate		WO#:	E4K7M1EG-MS/E4K7M1EH-MSD			MS Lot-Sample #:	H2G120173-001
	96	(10 - 163)			MCAWW 353.2	07/12/02	2193453
	90	(10 - 163)	5.5	(0-24)	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1					
Sulfate		WO#:	E4K7M1EJ-MS/E4K7M1EK-MSD			MS Lot-Sample #:	H2G120173-001
	NC,MSB	(22 - 151)			MCAWW 375.4	07/15/02	2196140
	NC,MSB	(22 - 151)		(0-31)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1					
Total Alkalinity		WO#:	E4K3Q1CW-MS/E4K3Q1CX-MSD			MS Lot-Sample #:	A2G120163-001
	96	(10 - 160)			MCAWW 310.1	07/12/02	2196113
	96	(10 - 160)	0.01	(0-24)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1					
Total Alkalinity		WO#:	E4K7M1ET-MS/E4K7M1EU-MSD			MS Lot-Sample #:	H2G120173-001
	28	(10 - 160)			MCAWW 310.1	07/12/02	2196113
	31	(10 - 160)	2.6	(0-24)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: E4LA11CM-MS/E4LA11CN-MSD				MS Lot-Sample #: A2G120176-007	
	96	(10 - 160)			MCAWW 310.1	07/13/02	2196113
	93	(10 - 160)	2.4	(0-24)	MCAWW 310.1	07/13/02	2196113
		Dilution Factor: 1					
Total Organic Carbon		WO#: E4K7M1EL-MS/E4K7M1EM-MSD				MS Lot-Sample #: H2G120173-001	
	102	(72 - 136)			SW846 9060	07/13/02	2196101
	101	(72 - 136)	0.95	(0-20)	SW846 9060	07/13/02	2196101
		Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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 #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Chloride - Automated			WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001		
	219	25.0	221	mg/L			MCAWW 325.2	07/15/02	219614
			Qualifiers: NC,MSB						
	219	25.0	222	mg/L			MCAWW 325.2	07/15/02	219614
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: E4K7M1CW-MS/E4K7M1CX-MSD				MS Lot-Sample #: H2G120173-001		
	ND	0.200	0.149 N	mg/L	74		SW846 9012A	07/16/02	219839
	ND	0.200	0.0970	mg/L	48	42	SW846 9012A	07/16/02	219839
			Qualifiers: N,*						
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K3Q1CR-MS/E4K3Q1CT-MSD				MS Lot-Sample #: A2G120163-001		
	154	200	340	mg/L	93		MCAWW 130.2	07/14/02	219512
	154	200	344	mg/L	95	1.2	MCAWW 130.2	07/14/02	219512
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K7M1EP-MS/E4K7M1EQ-MSD				MS Lot-Sample #: H2G120173-001		
	772	1000	1830	mg/L	105		MCAWW 130.2	07/14/02	219512
	772	1000	1830	mg/L	105	0.0	MCAWW 130.2	07/14/02	219512
			Dilution Factor: 1						
Nitrate			WO#: E4K7M1EG-MS/E4K7M1EH-MSD				MS Lot-Sample #: H2G120173-001		
	ND	0.250	0.284	mg/L	96		MCAWW 353.2	07/12/02	219345
	ND	0.250	0.268	mg/L	90	5.5	MCAWW 353.2	07/12/02	219345
			Dilution Factor: 1						
Sulfate			WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001		
	416	25.0	422	mg/L			MCAWW 375.4	07/15/02	219614
			Qualifiers: NC,MSB						
	416	25.0	424	mg/L			MCAWW 375.4	07/15/02	219614
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Total Alkalinity			WO#: E4K3Q1CW-MS/E4K3Q1CX-MSD				MS Lot-Sample #: A2G120163-001		
	163	500	645	mg/L	96		MCAWW 310.1	07/12/02	219611
	163	500	645	mg/L	96	0.01	MCAWW 310.1	07/12/02	219611
			Dilution Factor: 1						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Alkalinity			WO#: E4K7M1ET-MS/E4K7M1EU-MSD				MS Lot-Sample #: H2G120173-001		
	329	500	470	mg/L	28		MCAWW 310.1	07/12/02	219611
	329	500	482	mg/L	31	2.6	MCAWW 310.1	07/12/02	219611
			Dilution Factor: 1						
Total Alkalinity			WO#: E4LA11CM-MS/E4LA11CN-MSD				MS Lot-Sample #: A2G120176-007		
	122	500	602	mg/L	96		MCAWW 310.1	07/13/02	219611
	122	500	588	mg/L	93	2.4	MCAWW 310.1	07/13/02	219611
			Dilution Factor: 1						
Total Organic Carbon			WO#: E4K7M1EL-MS/E4K7M1EM-MSD				MS Lot-Sample #: H2G120173-001		
	2.7	25.0	28.2	mg/L	102		SW846 9060	07/13/02	219610
	2.7	25.0	28.0	mg/L	101	0.95	SW846 9060	07/13/02	219610
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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 #...: H2G120173 **Work Order #...:** E4JH2-SMP E4JH2-DUP **Matrix.....:** WATER

Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

% Moisture.....: 100 **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Suspended Solids						SD Lot-Sample #:	A2G110269-001	
	50.0	50.0	mg/L	0.0	(0-20)	MCAWW 160.2	07/15/02	219624

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Work Order #...:** E4K7M-SMP E4K7M-DUP **Matrix.....:** WATER

Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Suspended Solids						SD Lot-Sample #:	H2G120173-001	
	5.0	5.0	mg/L	0.0	(0-20)	MCAWW 160.2	07/15/02	219624
		Dilution Factor: 1						
Turbidity						SD Lot-Sample #:	H2G120173-001	
	23.6	24.3	NTU	2.9	(0-20)	MCAWW 180.1	07/12/02	219345
		Dilution Factor: 1						
Total Dissolved Solids						SD Lot-Sample #:	H2G120173-001	
	1180	1180	mg/L	0.68	(0-20)	MCAWW 160.1	07/15-07/16/02	219623
		Dilution Factor: 2						

Sample Receipt Documentation

H26120173

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02STL K

PAGE 1 OF 2

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: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney/865-588-6401
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266885

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC3005 –	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC3005MS	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC5002 (T	WATER	7/11/02	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		

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: X

Level of QC Required:
Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/11/02 Time: 1800	1. Received by: S Guthrie	Date: 7-12-02 Time: 0830
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

H2G120173

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02STL K

Bill To: Accounting
Shaw E & I

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC 3005-MSD	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
~~CC 3006 DKK~~								
CC 3006	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	not received	
CC 3002	WATER	7/11/02 0830	3-vial	40ml	Cool/HCL	BTEX(3) (not volatiles as sample labels say)		
CC 3002	WATER		3-vial	40ml	cool/HCL	GRO-8015B		
CC 3002	WATER		2-Amber	1000ml	Cool	DRO-8015B		
						DKK		

LOU

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: Shaw E+I PROJECT: PBOW Lot No.: H2G120173

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: G Guthrie DATE: 7/12/02

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 : pm DATE: 7/15/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CC3006	CN	4b	per V. Graves 7/15/02
			sample not collected -
			on COC by mistake

☒ Client informed on 7/12/02 by phone. Person contacted: V Graves.

☒ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: pm Date: 7/15/02

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): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2G120173

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA	
a. Was QuanTIMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	~~X~~ YM 7/15/02	X		STL NC
c. Is preservative check (pH) noted on RFA/COC?		X		not noted
d. Is cooler temperature & custody seal condition noted on COC?		X		on copy nce

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		wilenter
c. If samples were subcontracted, was copy of COC in folder?			X	YM 7/15/02

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: YM DATE: 7/15/02

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02STL C

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior/330-497-9396
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266896

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
CC 3005	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC 3005	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC3005 MS	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC3005 MS	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005 MS	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC3005 MSD	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC3005 MSD	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005 MSD	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		

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: X

Level of QC Required:

Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/11/02 Time: 1800	1. Received by: Jen Nottingham	Date: 7/12/02 Time: 9:45
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

LU4

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: H2612073

Client: II Project: _____ Quote#: _____

Cooler Received on: 7-12-02 Opened on: 7-12-02 by: Jen Nottingham (Signature)

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

Cooler [X] 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 _____
   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 [X] Foam [ ] None [ ] Other: _____

6. Cooler temperature upon receipt 20 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial [ ] Coolant & Sample [X] Against Bottles [ ] IR [ ] ICE/H_2O Slurry [ ]
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 [ ] No [X]
9. Were samples at the correct pH? (record on back) Yes [X] No [ ] NA [ ] JB 7-12-02
10. Were correct bottles used for the tests indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
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 Recieved 4x 40ml vials, COC indicates 9x 40ml vials
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 # 102401-NaOH; Hydrochloric Acid Lot # 011400-HCl; Sodium Hydroxide and Zinc Acetate Lot = 112801-CH3COOZN/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 #: H2G130120

Maureen McMyler

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

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

July 24, 2002

SET 2

H2G130120 Sample Data Summary **1**

Sample Receipt Documentation **93**

Volatiles **100**
- Raw Sample Data 101
- Standards Data 174
- Raw QC Data 237
- Miscellaneous Data 270

Semi-Volatiles **274**
- Raw Sample Data 275
- Standards Data 309
- Raw QC Data 415
- Miscellaneous Data 437

Explosives **443**
- Raw Sample Data 444
- Standards Data 452
- Raw QC Data 505
- Miscellaneous Data 512

Metals **515**
- Sample Results 516
- QC Summary 525
- Quality Control Results SuperTrace ICP 558
- Quality Control Results Mercury 594
- Raw Data SuperTrace ICP 610
- Raw Data Mercury 947
- Miscellaneous Data 970

Wet Chemistry **991**
- Sample Summary 992
- QC Summary 995
- Raw Data 1009
- Miscellaneous Data 1102

Sample Receipt Documentation **1109**

Total Number of Pages **1115**

ANALYTICAL METHODS SUMMARY

H2G130120

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

H2G130120

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E4M1H	001	CC3004	07/12/02	14:05
E4M1L	002	CC3004	07/12/02	14:05
E4M1M	003	CC3001	07/12/02	09:20
E4M1N	004	CC3001	07/12/02	09:20
E4M1P	005	CC5005	07/12/02	

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
H2G130120

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 containers for volatiles of sample CC3004 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 106.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.1), 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

The pH of sample CC3004 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
H2G130120

Explosives

Samples CC3004 and CC3001were reported with elevated reporting limits for one or more analytes due to sample matrix interferences. The affected analytes were flagged on the sample report.

Metals

The serial dilution of the batch sample E4K8L was outside control limits due to physical or chemical matrix interferences.

The serial dilution of sample E4K7M was outside control limits due to physical or chemical matrix interferences.

Wet Chemistry

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

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: CC3004

GC/MS Volatiles

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AC **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/15/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2196339
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**60 B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	**12**	**5.0**	**ug/L**	**0.85**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	**14**	**1.0**	**ug/L**	**0.24**
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	**17**	**1.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	**8.0**	**1.0**	**ug/L**	**0.19**
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	**55**	**1.0**	**ug/L**	**0.61**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(80 - 120)
1,2-Dichloroethane-d4	123	(77 - 128)
Toluene-d8	91	(80 - 120)
Bromofluorobenzene	109	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3004

GC/MS Volatiles

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AC **Matrix.....:** WATER

NOTE(S):

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

SHAW E & I INC

Client Sample ID: CC3001

GC/MS Volatiles

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AN **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/15/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2196339
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**2.6 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	**3.2 J**	**5.0**	**ug/L**	**0.85**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(80 - 120)
1,2-Dichloroethane-d4	102	(77 - 128)
Toluene-d8	96	(80 - 120)
Bromofluorobenzene	103	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3001

GC/MS Volatiles

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AN **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC5005

GC/MS Volatiles

Lot-Sample #...: H2G130120-005 **Work Order #...:** E4M1P1AA **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/15/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2196339
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	0.18
Vinyl chloride	ND	1.0	ug/L	0.61
Chloroethane	ND	2.0	ug/L	0.13
Methylene chloride	ND	2.0	ug/L	0.17
Acetone	**4.3 J,B**	**10**	**ug/L**	**0.47**
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.14
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.28
1,2-Dichloroethane	ND	1.0	ug/L	0.18
2-Butanone	**5.1**	**5.0**	**ug/L**	**0.85**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.18
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.21
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.18
Dibromochloromethane	ND	1.0	ug/L	0.26
1,1,2-Trichloroethane	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.25
Bromoform	ND	1.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.27
2-Hexanone	ND	5.0	ug/L	0.32
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.24
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(80 - 120)
1,2-Dichloroethane-d4	119	(77 - 128)
Toluene-d8	85	(80 - 120)
Bromofluorobenzene	110	(72 - 129)

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SHAW E & I INC

Client Sample ID: CC5005

GC/MS Volatiles

Lot-Sample #...: H2G130120-005 **Work Order #...:** E4M1P1AA **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G130120 **Work Order #...:** E4N601AA **Matrix.....:** WATER
MB Lot-Sample #: H2G150000-339

Prep Date.....: 07/15/02
Analysis Date..: 07/15/02 **Prep Batch #...:** 2196339
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	**1.6 J**	**2.0**	**ug/L**	**SW846 8260B**
Acetone	**1.2 J**	**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	ND	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	ND	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	111	(80 - 120)
1,2-Dichloroethane-d4	112	(77 - 128)
Toluene-d8	89	(80 - 120)
Bromofluorobenzene	101	(72 - 129)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2G130120 **Work Order #...:** E4N601AA **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 #...: H2G130120 **Work Order #...:** E4N601AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G150000-339 E4N601AD-LCSD
Prep Date.....: 07/15/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2196339
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**113**	**(69 - 120)**			**SW846 8260B**
	114	**(69 - 120)**	**1.2**	**(0-26)**	**SW846 8260B**
Trichloroethene	**108**	**(76 - 120)**			**SW846 8260B**
	111	**(76 - 120)**	**2.7**	**(0-17)**	**SW846 8260B**
Benzene	**103**	**(76 - 120)**			**SW846 8260B**
	104	**(76 - 120)**	**1.3**	**(0-19)**	**SW846 8260B**
Toluene	**81**	**(77 - 120)**			**SW846 8260B**
	95	**(77 - 120)**	**15**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**92**	**(75 - 120)**			**SW846 8260B**
	95	**(75 - 120)**	**3.1**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(80 - 120)
	115	(80 - 120)
1,2-Dichloroethane-d4	118	(77 - 128)
	119	(77 - 128)
Toluene-d8	90	(80 - 120)
	94	(80 - 120)
Bromofluorobenzene	108	(72 - 129)
	99	(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 #...: H2G130120 **Work Order #...:** E4N601AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G150000-339 E4N601AD-LCSD
Prep Date.....: 07/15/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2196339
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**11.3**	**ug/L**	**113**		**SW846 8260B**
	10.0	**11.4**	**ug/L**	**114**	**1.2**	**SW846 8260B**
Trichloroethene	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260B**
	10.0	**11.1**	**ug/L**	**111**	**2.7**	**SW846 8260B**
Benzene	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	10.0	**10.4**	**ug/L**	**104**	**1.3**	**SW846 8260B**
Toluene	**10.0**	**8.14**	**ug/L**	**81**		**SW846 8260B**
	10.0	**9.47**	**ug/L**	**95**	**15**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.23**	**ug/L**	**92**		**SW846 8260B**
	10.0	**9.53**	**ug/L**	**95**	**3.1**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(80 - 120)
	115	(80 - 120)
1,2-Dichloroethane-d4	118	(77 - 128)
	119	(77 - 128)
Toluene-d8	90	(80 - 120)
	94	(80 - 120)
Bromofluorobenzene	108	(72 - 129)
	99	(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: CC3004

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AD **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	**0.76 J**	**10**	**ug/L**	**0.59**
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	**8.7 J**	**10**	**ug/L**	**0.67**
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	**10**	**10**	**ug/L**	**0.87**
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3004

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	**4.6 J,B**	**10**	**ug/L**	**0.80**
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(29 - 110)
Phenol-d5	82	(41 - 115)
Nitrobenzene-d5	79	(46 - 117)
2-Fluorobiphenyl	73	(44 - 116)
2,4,6-Tribromophenol	100	(31 - 138)
Terphenyl-d14	89	(36 - 134)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CC3004

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AD **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

SHAW E & I INC

Client Sample ID: CC3001

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AP **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	0.82
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.64
2-Chlorophenol	ND	10	ug/L	0.63
1,3-Dichlorobenzene	ND	10	ug/L	0.54
1,4-Dichlorobenzene	ND	10	ug/L	0.77
1,2-Dichlorobenzene	ND	10	ug/L	0.66
2-Methylphenol	ND	10	ug/L	0.80
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	0.67
4-Methylphenol	ND	10	ug/L	0.85
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.88
Hexachloroethane	ND	10	ug/L	0.74
Nitrobenzene	ND	10	ug/L	0.63
Isophorone	ND	10	ug/L	0.68
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	0.59
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.76
2,4-Dichlorophenol	ND	10	ug/L	0.89
1,2,4-Trichloro-benzene	ND	10	ug/L	0.82
Naphthalene	ND	10	ug/L	0.67
4-Chloroaniline	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	0.73
4-Chloro-3-methylphenol	ND	10	ug/L	2.5
2-Methylnaphthalene	ND	10	ug/L	0.87
Hexachlorocyclopenta-diene	ND	50	ug/L	2.5
2,4,6-Trichloro-phenol	ND	10	ug/L	0.96
2,4,5-Trichloro-phenol	ND	10	ug/L	0.81
2-Chloronaphthalene	ND	10	ug/L	0.53
2-Nitroaniline	ND	50	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.62
2,6-Dinitrotoluene	ND	10	ug/L	0.79

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SHAW E & I INC

Client Sample ID: CC3001

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AP **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.8
Acenaphthene	ND	10	ug/L	0.74
2,4-Dinitrophenol	ND	50	ug/L	1.5
4-Nitrophenol	ND	50	ug/L	1.5
Dibenzofuran	ND	10	ug/L	1.1
2,4-Dinitrotoluene	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.53
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.2
Fluorene	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.5
4,6-Dinitro-2-methylphenol	ND	50	ug/L	0.56
N-Nitrosodiphenylamine	ND	10	ug/L	0.52
4-Bromophenyl phenyl ether	ND	10	ug/L	0.54
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Phenanthrene	ND	10	ug/L	0.72
Anthracene	ND	10	ug/L	0.62
Carbazole	ND	10	ug/L	0.85
Di-n-butyl phthalate	ND	10	ug/L	0.86
Fluoranthene	ND	10	ug/L	0.67
Pyrene	ND	10	ug/L	0.55
Butyl benzyl phthalate	ND	10	ug/L	0.87
3,3'-Dichlorobenzidine	ND	50	ug/L	3.0
Benzo(a)anthracene	ND	10	ug/L	0.66
Chrysene	ND	10	ug/L	0.51
bis(2-Ethylhexyl) phthalate	**4.3 J,B**	**10**	**ug/L**	**0.80**
Di-n-octyl phthalate	ND	10	ug/L	0.96
Benzo(b)fluoranthene	ND	10	ug/L	1.6
Benzo(k)fluoranthene	ND	10	ug/L	1.1
Benzo(a)pyrene	ND	10	ug/L	0.67
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.86
Dibenz(a,h)anthracene	ND	10	ug/L	1.1
Benzo(ghi)perylene	ND	10	ug/L	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	83	(29 - 110)
Phenol-d5	95	(41 - 115)
Nitrobenzene-d5	98	(46 - 117)
2-Fluorobiphenyl	91	(44 - 116)
2,4,6-Tribromophenol	102	(31 - 138)
Terphenyl-d14	100	(36 - 134)

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SHAW E & I INC

Client Sample ID: CC3001

GC/MS Semivolatiles

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AP **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4MXR1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G130000-129

Prep Date.....: 07/13/02
Analysis Date..: 07/15/02 **Prep Batch #...:** 2194129
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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4MXR1AA **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	**3.3 J**	**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	76	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	82	(31 - 138)
Terphenyl-d14	102	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4MXR1AA **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 Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4MXR1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2G130000-129
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**84**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**82**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**82**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**91**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**81**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**96**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**88**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**84**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**105**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**87**	**(64 - 114)**	**SW846 8270C**
Pyrene	**96**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	112	(31 - 138)
Terphenyl-d14	105	(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 #...: H2G130120 **Work Order #...:** E4MXR1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2G130000-129
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**83.8**	**ug/L**	**84**	**SW846 8270C**
2-Chlorophenol	**100**	**82.3**	**ug/L**	**82**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**81.5**	**ug/L**	**82**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**91.1**	**ug/L**	**91**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**81.0**	**ug/L**	**81**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**95.9**	**ug/L**	**96**	**SW846 8270C**
Acenaphthene	**100**	**87.8**	**ug/L**	**88**	**SW846 8270C**
4-Nitrophenol	**100**	**84.0**	**ug/L**	**84**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**105**	**ug/L**	**105**	**SW846 8270C**
Pentachlorophenol	**100**	**87.3**	**ug/L**	**87**	**SW846 8270C**
Pyrene	**100**	**95.5**	**ug/L**	**96**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(29 - 110)
Phenol-d5	89	(41 - 115)
Nitrobenzene-d5	89	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	112	(31 - 138)
Terphenyl-d14	105	(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 #...: H2G130120 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**78**	**(58 - 103)**			**SW846 8270C**
	83	**(58 - 103)**	**1.5**	**(0-41)**	**SW846 8270C**
2-Chlorophenol	**78**	**(54 - 103)**			**SW846 8270C**
	83	**(54 - 103)**	**1.9**	**(0-43)**	**SW846 8270C**
1,4-Dichlorobenzene	**76**	**(56 - 102)**			**SW846 8270C**
	80	**(56 - 102)**	**2.1**	**(0-37)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**86**	**(61 - 108)**			**SW846 8270C**
	89	**(61 - 108)**	**3.6**	**(0-36)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**74**	**(58 - 104)**			**SW846 8270C**
	80	**(58 - 104)**	**0.0**	**(0-36)**	**SW846 8270C**
4-Chloro-3-methylphenol	**95**	**(65 - 108)**			**SW846 8270C**
	93	**(65 - 108)**	**11**	**(0-29)**	**SW846 8270C**
Acenaphthene	**83**	**(59 - 100)**			**SW846 8270C**
	82	**(59 - 100)**	**9.4**	**(0-26)**	**SW846 8270C**
4-Nitrophenol	**91**	**(50 - 122)**			**SW846 8270C**
	81	**(50 - 122)**	**19**	**(0-50)**	**SW846 8270C**
2,4-Dinitrotoluene	**102**	**(67 - 128)**			**SW846 8270C**
	96	**(67 - 128)**	**13**	**(0-25)**	**SW846 8270C**
Pentachlorophenol	**95**	**(64 - 118)**			**SW846 8270C**
	93	**(64 - 118)**	**10**	**(0-37)**	**SW846 8270C**
Pyrene	**92**	**(51 - 119)**			**SW846 8270C**
	89	**(51 - 119)**	**11**	**(0-27)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(29 - 110)
	82	(29 - 110)
Phenol-d5	85	(41 - 115)
	90	(41 - 115)
Nitrobenzene-d5	83	(46 - 117)
	90	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
	83	(44 - 116)
2,4,6-Tribromophenol	105	(31 - 138)
	100	(31 - 138)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	99	(36 - 134)
	95	(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 #...: H2G130120 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02
Prep Date.....: 07/13/02 **Analysis Date..:** 07/15/02
Prep Batch #...: 2194129
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	108	84.7	ug/L	78		SW846 8270C
	ND	100	83.4	ug/L	83	1.5	SW846 8270C
2-Chlorophenol	ND	108	84.3	ug/L	78		SW846 8270C
	ND	100	82.7	ug/L	83	1.9	SW846 8270C
1,4-Dichlorobenzene	ND	108	81.6	ug/L	76		SW846 8270C
	ND	100	79.9	ug/L	80	2.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	108	92.5	ug/L	86		SW846 8270C
	ND	100	89.2	ug/L	89	3.6	SW846 8270C
1,2,4-Trichloro-benzene	ND	108	80.2	ug/L	74		SW846 8270C
	ND	100	80.2	ug/L	80	0.0	SW846 8270C
4-Chloro-3-methylphenol	ND	108	103	ug/L	95		SW846 8270C
	ND	100	92.7	ug/L	93	11	SW846 8270C
Acenaphthene	ND	108	89.7	ug/L	83		SW846 8270C
	ND	100	81.6	ug/L	82	9.4	SW846 8270C
4-Nitrophenol	ND	108	98.3	ug/L	91		SW846 8270C
	ND	100	80.9	ug/L	81	19	SW846 8270C
2,4-Dinitrotoluene	ND	108	110	ug/L	102		SW846 8270C
	ND	100	96.2	ug/L	96	13	SW846 8270C
Pentachlorophenol	ND	108	103	ug/L	95		SW846 8270C
	ND	100	92.8	ug/L	93	10	SW846 8270C
Pyrene	ND	108	99.4	ug/L	92		SW846 8270C
	ND	100	89.0	ug/L	89	11	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(29 - 110)
	82	(29 - 110)
Phenol-d5	85	(41 - 115)
	90	(41 - 115)
Nitrobenzene-d5	83	(46 - 117)
	90	(46 - 117)
2-Fluorobiphenyl	83	(44 - 116)
	83	(44 - 116)
2,4,6-Tribromophenol	105	(31 - 138)
	100	(31 - 138)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2G130120 **Work Order #...:** E4K7M1C7-MS **Matrix.....:** WATER
MS Lot-Sample #: H2G120173-001 E4K7M1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	99	(36 - 134)
	95	(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: CC3004

HPLC

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H1AA **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/16/02 **Analysis Date..:** 07/16/02
Prep Batch #...: 2197346
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 G	0.36	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 G	0.54	ug/L	0.17
3-Nitrotoluene	ND	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	117	(53 - 133)

NOTE(S):

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

SHAW E & I INC

Client Sample ID: CC3001

HPLC

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M1AM **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02
Prep Date.....: 07/16/02 **Analysis Date..:** 07/16/02
Prep Batch #...: 2197346
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 G	0.53	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	109	(53 - 133)

NOTE(S):

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

METHOD BLANK REPORT

HPLC

Client Lot #...: H2G130120 **Work Order #...:** E4RAN1AA **Matrix.....:** WATER
MB Lot-Sample #: H2G160000-346

Prep Date.....: 07/16/02
Analysis Date..: 07/16/02 **Prep Batch #...:** 2197346
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	114	(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 #...: H2G130120 **Work Order #...:** E4RAN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G160000-346 , E4RAN1AD-LCSD
Prep Date.....: 07/16/02 **Analysis Date..:** 07/16/02
Prep Batch #...: 2197346
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**93**	**(68 - 122)**			**SW846 8330**
	88	**(68 - 122)**	**5.4**	**(0-25)**	**SW846 8330**
RDX	**99**	**(71 - 127)**			**SW846 8330**
	94	**(71 - 127)**	**5.3**	**(0-26)**	**SW846 8330**
1,3,5-Trinitrobenzene	**97**	**(70 - 124)**			**SW846 8330**
	91	**(70 - 124)**	**6.2**	**(0-25)**	**SW846 8330**
1,3-Dinitrobenzene	**97**	**(72 - 124)**			**SW846 8330**
	91	**(72 - 124)**	**5.8**	**(0-25)**	**SW846 8330**
Tetryl	**97**	**(68 - 123)**			**SW846 8330**
	89	**(68 - 123)**	**8.3**	**(0-26)**	**SW846 8330**
Nitrobenzene	**89**	**(60 - 122)**			**SW846 8330**
	80	**(60 - 122)**	**9.6**	**(0-26)**	**SW846 8330**
2,4,6-Trinitrotoluene	**96**	**(71 - 123)**			**SW846 8330**
	91	**(71 - 123)**	**6.2**	**(0-25)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**84**	**(66 - 122)**			**SW846 8330**
	81	**(66 - 122)**	**4.2**	**(0-26)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**87**	**(65 - 124)**			**SW846 8330**
	84	**(65 - 124)**	**4.4**	**(0-26)**	**SW846 8330**
2,6-Dinitrotoluene	**96**	**(66 - 129)**			**SW846 8330**
	92	**(66 - 129)**	**4.2**	**(0-26)**	**SW846 8330**
2,4-Dinitrotoluene	**95**	**(70 - 125)**			**SW846 8330**
	90	**(70 - 125)**	**5.0**	**(0-26)**	**SW846 8330**
2-Nitrotoluene	**80**	**(54 - 121)**			**SW846 8330**
	71	**(54 - 121)**	**12**	**(0-27)**	**SW846 8330**
4-Nitrotoluene	**83**	**(59 - 123)**			**SW846 8330**
	80	**(59 - 123)**	**3.7**	**(0-27)**	**SW846 8330**
3-Nitrotoluene	**85**	**(58 - 124)**			**SW846 8330**
	76	**(58 - 124)**	**11**	**(0-27)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(53 - 133)
	113	(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 #...: H2G130120 **Work Order #...:** E4RAN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2G160000-346 E4RAN1AD-LCSD
Prep Date.....: 07/16/02 **Analysis Date..:** 07/16/02
Prep Batch #...: 2197346
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	**3.00**	**2.78**	**ug/L**	**93**		**SW846 8330**
	3.00	**2.64**	**ug/L**	**88**	**5.4**	**SW846 8330**
RDX	**3.00**	**2.97**	**ug/L**	**99**		**SW846 8330**
	3.00	**2.82**	**ug/L**	**94**	**5.3**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.91**	**ug/L**	**97**		**SW846 8330**
	3.00	**2.74**	**ug/L**	**91**	**6.2**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.91**	**ug/L**	**97**		**SW846 8330**
	3.00	**2.74**	**ug/L**	**91**	**5.8**	**SW846 8330**
Tetryl	**3.00**	**2.91**	**ug/L**	**97**		**SW846 8330**
	3.00	**2.67**	**ug/L**	**89**	**8.3**	**SW846 8330**
Nitrobenzene	**3.00**	**2.66**	**ug/L**	**89**		**SW846 8330**
	3.00	**2.41**	**ug/L**	**80**	**9.6**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.89**	**ug/L**	**96**		**SW846 8330**
	3.00	**2.72**	**ug/L**	**91**	**6.2**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.52**	**ug/L**	**84**		**SW846 8330**
	3.00	**2.42**	**ug/L**	**81**	**4.2**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.62**	**ug/L**	**87**		**SW846 8330**
	3.00	**2.51**	**ug/L**	**84**	**4.4**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.89**	**ug/L**	**96**		**SW846 8330**
	3.00	**2.77**	**ug/L**	**92**	**4.2**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.84**	**ug/L**	**95**		**SW846 8330**
	3.00	**2.70**	**ug/L**	**90**	**5.0**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.41**	**ug/L**	**80**		**SW846 8330**
	3.00	**2.14**	**ug/L**	**71**	**12**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.50**	**ug/L**	**83**		**SW846 8330**
	3.00	**2.41**	**ug/L**	**80**	**3.7**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.55**	**ug/L**	**85**		**SW846 8330**
	3.00	**2.29**	**ug/L**	**76**	**11**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(53 - 133)
	113	(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: CC3004

TOTAL Metals

Lot-Sample #...: H2G130120-001 **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4M1H1A5
		Dilution Factor: 1		Analysis Time..: 15:22	MDL.....: 0.060	
Prep Batch #...: 2195098						
Aluminum	**1150**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AE**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1AF
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 7.0	
Arsenic	**4.3 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AG**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 2.5	
Barium	**680**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AH**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1AJ
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1AK
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 0.50	
Calcium	**346000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AL**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 37.7	
Chromium	**9.4 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AM**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.2	
Cobalt	**2.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AN**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 2.3	
Copper	**8.6 B**	**25.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AP**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.9	
Iron	**13400**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AQ**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 36.1	
Lead	**5.2**	**3.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AR**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3004

TOTAL Metals

Lot-Sample #...: H2G130120-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**88800**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AT**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 21.8	
Manganese	**420**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AU**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.5	
Nickel	**7.9 B**	**40.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AV**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.9	
Potassium	**41600**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1AW**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1AX
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1A0
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.9	
Sodium	**101000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1A1**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1H1A2
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 4.8	
Vanadium	**6.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1A3**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 1.8	
Zinc	**28.4**	**20.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1H1A4**
		Dilution Factor: 1		Analysis Time..: 11:51	MDL.....: 2.6	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3004

DISSOLVED Metals

Lot-Sample #...: H2G130120-002 **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4M1L1A2
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 0.060	
Prep Batch #...: 2195097						
Aluminum	**110 B,J**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AA**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AC
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AD
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 2.5	
Barium	**670**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AE**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AF
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AG
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 0.50	
Calcium	**147000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AH**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AJ
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.2	
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AK
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AL
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.9	
Iron	ND	100	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AM
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AN
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3004

DISSOLVED Metals

Lot-Sample #...: H2G130120-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**79400**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AP**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 21.8	
Manganese	**44.2**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AQ**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.5	
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AR
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.9	
Potassium	**38300**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AT**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AU
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AV
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.9	
Sodium	**98500**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1L1AW**
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1AX
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1A0
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 1.8	
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1L1A1
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 2.6	

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: CC3001

TOTAL Metals

Lot-Sample #...: H2G130120-003 **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4M1M1AG
		Dilution Factor: 1		Analysis Time..: 15:24	MDL.....: 0.060	
Prep Batch #...: 2195098						
Aluminum	**65.2 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AQ**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AR
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 7.0	
Arsenic	**3.6 B**	**10.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AT**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 2.5	
Barium	**229**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AU**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AV
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AW
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 0.50	
Calcium	**134000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AX**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1A0
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.2	
Cobalt	**12.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A1**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1A2
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.9	
Iron	**1490**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A3**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1A4
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3001

TOTAL Metals

Lot-Sample #...: H2G130120-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**73500**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A5**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 21.8	
Manganese	**688**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A6**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.5	
Nickel	**8.6 B**	**40.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A7**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.9	
Potassium	**30500**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1A8**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1A9
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AA
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.9	
Sodium	**395000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AC**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AD
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4M1M1AE
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 1.8	
Zinc	**10.0 B**	**20.0**	**ug/L**	**SW846 6010B**	**07/14-07/16/02**	**E4M1M1AF**
		Dilution Factor: 1		Analysis Time..: 11:56	MDL.....: 2.6	

NOTE(S):

B Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CC3001

DISSOLVED Metals

Lot-Sample #...: H2G130120-004 **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4M1N1AD
		Dilution Factor: 1		Analysis Time..: 16:02	MDL.....: 0.060	
Prep Batch #...: 2195097						
Aluminum	**113 B,J**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AE**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 22.0	
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AF
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 7.0	
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AG
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 2.5	
Barium	**236**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AH**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.0	
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AJ
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 0.50	
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AK
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 0.50	
Calcium	**133000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AL**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 37.7	
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AM
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.2	
Cobalt	**8.2 B**	**50.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AN**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 2.3	
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AP
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.9	
Iron	**1160**	**100**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AQ**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 36.1	
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AR
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.7	

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SHAW E & I INC

Client Sample ID: CC3001

DISSOLVED Metals

Lot-Sample #...: H2G130120-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**76000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AT**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 21.8	
Manganese	**728**	**15.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AU**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.5	
Nickel	**8.5 B**	**40.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AV**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.9	
Potassium	**31000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AW**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 158	
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AX
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 3.8	
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1A0
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.9	
Sodium	**392000**	**5000**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1A1**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 357	
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1A2
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 4.8	
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4M1N1AA
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 1.8	
Zinc	**7.3 B**	**20.0**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4M1N1AC**
		Dilution Factor: 1		Analysis Time..: 17:11	MDL.....: 2.6	

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 #...: H2G130120 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-091 **Prep Batch #...:** 2195091						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ41AA
		Dilution Factor: 1				
		Analysis Time..: 15:02				
MB Lot-Sample #: H2G140000-098 **Prep Batch #...:** 2195098						
Aluminum	ND	200	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AA
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AC
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AD
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Barium	ND	200	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AE
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AF
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AG
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Calcium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AH
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AJ
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AK
		Dilution Factor: 1				
		Analysis Time..: 10:53				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AL
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Iron	ND	100	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AM
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AN
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Magnesium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AP
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Manganese	ND	15.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AQ
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AR
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Potassium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AT
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AU
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AV
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Sodium	ND	5000	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AW
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1AX
		Dilution Factor: 1				
		Analysis Time..: 10:53				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1A0
		Dilution Factor: 1				
		Analysis Time..: 10:53				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/16/02	E4NKA1A1

Dilution Factor: 1
Analysis Time..: 10:53

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091					
Mercury	104	(90 - 110)	SW846 7470A	07/14/02	E4NJ41AC
		Dilution Factor: 1			
		Analysis Time..: 15:09			
LCS Lot-Sample#: H2G140000-098 **Prep Batch #...:** 2195098					
Aluminum	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A2
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Antimony	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A3
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Arsenic	101	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A4
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Barium	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A5
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Beryllium	103	(90 - 115)	SW846 6010B	07/14-07/16/02	E4NKA1A6
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Cadmium	101	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A7
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Calcium	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A8
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Chromium	100	(89 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1A9
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Cobalt	101	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CA
		Dilution Factor: 1			
		Analysis Time..: 10:58			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	99	(88 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CC
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Iron	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CD
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Lead	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CE
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Magnesium	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CF
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Manganese	102	(90 - 111)	SW846 6010B	07/14-07/16/02	E4NKA1CG
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Nickel	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CH
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Potassium	97	(89 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CJ
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Selenium	102	(90 - 114)	SW846 6010B	07/14-07/16/02	E4NKA1CK
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Silver	99	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CL
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Sodium	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CM
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Thallium	101	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CN
		Dilution Factor: 1			
		Analysis Time..: 10:58			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	100	(90 - 110)	SW846 6010B	07/14-07/16/02	E4NKA1CP
		Dilution Factor: 1			
		Analysis Time..: 10:58			
Zinc	106	(90 - 115)	SW846 6010B	07/14-07/16/02	E4NKA1CQ
		Dilution Factor: 1			
		Analysis Time..: 10:58			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-091 **Prep Batch #...:** 2195091							
Mercury	5.00	5.19	ug/L	104	SW846 7470A	07/14/02	E4NJ41AC
			Dilution Factor: 1				
			Analysis Time..: 15:09				
LCS Lot-Sample#: H2G140000-098 **Prep Batch #...:** 2195098							
Aluminum	2000	2010	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A2
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Antimony	500	502	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A3
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Arsenic	2000	2020	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1A4
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Barium	2000	1970	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1A5
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Beryllium	50.0	51.6	ug/L	103	SW846 6010B	07/14-07/16/02	E4NKA1A6
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Cadmium	50.0	50.5	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1A7
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Calcium	50000	49900	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A8
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Chromium	200	201	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1A9
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Cobalt	500	506	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1CA
			Dilution Factor: 1				
			Analysis Time..: 10:58				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	250	246	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CC
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Iron	1000	986	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CD
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Lead	500	500	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CE
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Magnesium	50000	49400	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CF
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Manganese	500	512	ug/L	102	SW846 6010B	07/14-07/16/02	E4NKA1CG
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Nickel	500	502	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CH
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Potassium	50000	48500	ug/L	97	SW846 6010B	07/14-07/16/02	E4NKA1CJ
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Selenium	2000	2050	ug/L	102	SW846 6010B	07/14-07/16/02	E4NKA1CK
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Silver	50.0	49.6	ug/L	99	SW846 6010B	07/14-07/16/02	E4NKA1CL
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Sodium	50000	50000	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CM
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Thallium	2000	2010	ug/L	101	SW846 6010B	07/14-07/16/02	E4NKA1CN
			Dilution Factor: 1				
			Analysis Time..: 10:58				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	500	498	ug/L	100	SW846 6010B	07/14-07/16/02	E4NKA1CP
			Dilution Factor: 1				
			Analysis Time..: 10:58				
Zinc	500	528	ug/L	106	SW846 6010B	07/14-07/16/02	E4NKA1CQ
			Dilution Factor: 1				
			Analysis Time..: 10:58				

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2G140000-092 **Prep Batch #...:** 2195092						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14/02	E4NJ61AA
		Dilution Factor: 1				
		Analysis Time..: 15:40				
MB Lot-Sample #: H2G140000-097 **Prep Batch #...:** 2195097						
Aluminum	**56.9 B**	**200**	**ug/L**	**SW846 6010B**	**07/14-07/15/02**	**E4NJ81AA**
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Antimony	ND	60.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AC
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Arsenic	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AD
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Barium	ND	200	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AE
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Beryllium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AF
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AG
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Calcium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AH
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Chromium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AJ
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Cobalt	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AK
		Dilution Factor: 1				
		Analysis Time..: 16:35				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AL
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Iron	ND	100	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AM
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Lead	ND	3.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AN
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Magnesium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AP
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Manganese	ND	15.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AQ
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Nickel	ND	40.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AR
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Potassium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AT
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Selenium	ND	5.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AU
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Silver	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AV
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Sodium	ND	5000	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AW
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Thallium	ND	10.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81AX
		Dilution Factor: 1				
		Analysis Time..: 16:35				
Vanadium	ND	50.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81A0
		Dilution Factor: 1				
		Analysis Time..: 16:35				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	07/14-07/15/02	E4NJ81A1

Dilution Factor: 1
Analysis Time..: 16:35

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 #...: H2G130120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092					
Mercury	105	(90 - 110)	SW846 7470A	07/14/02	E4NJ61AC
		Dilution Factor: 1			
		Analysis Time..: 15:42			
LCS Lot-Sample#: H2G140000-097 **Prep Batch #...:** 2195097					
Aluminum	102	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A2
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Antimony	98	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A3
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Arsenic	101	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A4
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Barium	99	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A5
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Beryllium	102	(90 - 115)	SW846 6010B	07/14-07/15/02	E4NJ81A6
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Cadmium	100	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A7
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Calcium	96	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A8
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Chromium	97	(89 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81A9
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Cobalt	101	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CA
		Dilution Factor: 1			
		Analysis Time..: 16:40			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	96	(88 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CC
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Iron	96	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CD
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Lead	98	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CE
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Magnesium	100	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CF
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Manganese	100	(90 - 111)	SW846 6010B	07/14-07/15/02	E4NJ81CG
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Nickel	99	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CH
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Potassium	96	(89 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CJ
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Selenium	104	(90 - 114)	SW846 6010B	07/14-07/15/02	E4NJ81CK
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Silver	98	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CL
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Sodium	97	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CM
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Thallium	101	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CN
		Dilution Factor: 1			
		Analysis Time..: 16:40			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	99	(90 - 110)	SW846 6010B	07/14-07/15/02	E4NJ81CP
		Dilution Factor: 1			
		Analysis Time..: 16:40			
Zinc	106	(90 - 115)	SW846 6010B	07/14-07/15/02	E4NJ81CQ
		Dilution Factor: 1			
		Analysis Time..: 16:40			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2G140000-092 **Prep Batch #...:** 2195092							
Mercury	5.00	5.24	ug/L	105	SW846 7470A	07/14/02	E4NJ61AC
			Dilution Factor: 1				
			Analysis Time..: 15:42				
LCS Lot-Sample#: H2G140000-097 **Prep Batch #...:** 2195097							
Aluminum	2000	2050	ug/L	102	SW846 6010B	07/14-07/15/02	E4NJ81A2
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Antimony	500	492	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81A3
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Arsenic	2000	2010	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81A4
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Barium	2000	1980	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81A5
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Beryllium	50.0	50.8	ug/L	102	SW846 6010B	07/14-07/15/02	E4NJ81A6
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Cadmium	50.0	50.0	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81A7
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Calcium	50000	48200	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81A8
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Chromium	200	194	ug/L	97	SW846 6010B	07/14-07/15/02	E4NJ81A9
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Cobalt	500	505	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81CA
			Dilution Factor: 1				
			Analysis Time..: 16:40				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	250	241	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CC
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Iron	1000	963	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CD
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Lead	500	490	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81CE
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Magnesium	50000	49900	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81CF
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Manganese	500	502	ug/L	100	SW846 6010B	07/14-07/15/02	E4NJ81CG
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Nickel	500	493	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81CH
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Potassium	50000	47800	ug/L	96	SW846 6010B	07/14-07/15/02	E4NJ81CJ
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Selenium	2000	2070	ug/L	104	SW846 6010B	07/14-07/15/02	E4NJ81CK
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Silver	50.0	48.8	ug/L	98	SW846 6010B	07/14-07/15/02	E4NJ81CL
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Sodium	50000	48300	ug/L	97	SW846 6010B	07/14-07/15/02	E4NJ81CM
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Thallium	2000	2030	ug/L	101	SW846 6010B	07/14-07/15/02	E4NJ81CN
			Dilution Factor: 1				
			Analysis Time..: 16:40				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	500	493	ug/L	99	SW846 6010B	07/14-07/15/02	E4NJ81CP
			Dilution Factor: 1				
			Analysis Time..: 16:40				
Zinc	500	528	ug/L	106	SW846 6010B	07/14-07/15/02	E4NJ81CQ
			Dilution Factor: 1				
			Analysis Time..: 16:40				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091							
Mercury	99	(73 - 125)			SW846 7470A	07/14/02	E4K7M1CU
	101	(73 - 125)	1.8	(0-20)	SW846 7470A	07/14/02	E4K7M1CV
		Dilution Factor: 1					
		Analysis Time..: 15:16					
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195098							
Aluminum	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1C9
	101	(75 - 125)	0.75	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DA
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Antimony	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DC
	101	(75 - 125)	0.84	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DD
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Arsenic	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DE
	101	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DF
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Barium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DG
	98	(75 - 125)	0.96	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DH
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Beryllium	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DJ
	101	(75 - 125)	0.72	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DK
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cadmium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DL
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DM
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Calcium	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DN
	87	(75 - 125)	2.7	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DP
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DQ
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DR
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cobalt	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DT
	100	(75 - 125)	0.82	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DU
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Copper	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DV
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DW
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Iron	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DX
	97	(75 - 125)	1.4	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D0
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Lead	98	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D1
	97	(75 - 125)	0.74	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D2
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Magnesium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D3
	98	(75 - 125)	2.3	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D4
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Manganese	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D5
	101	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D6
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Nickel	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D7
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D8
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Potassium	106	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D9
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1EA
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	96	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1EC
	96	(75 - 125)	0.49	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1ED
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Silver	101	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CH
	100	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CJ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Sodium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CK
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CL
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Thallium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CM
	99	(75 - 125)	0.67	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CN
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Vanadium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CP
	98	(75 - 125)	0.62	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CQ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Zinc	105	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CR
	105	(75 - 125)	0.68	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CT
		Dilution Factor: 1					
		Analysis Time..: 11:25					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091									
Mercury									
	ND	1.00	0.992	ug/L	99		SW846 7470A	07/14/02	E4K7M1CU
	ND	1.00	1.01	ug/L	101	1.8	SW846 7470A	07/14/02	E4K7M1CV
			Dilution Factor: 1						
			Analysis Time..: 15:16						
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195098									
Aluminum									
	44.6	2000	2080	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1C9
	44.6	2000	2070	ug/L	101	0.75	SW846 6010B	07/14-07/16/02	E4K7M1DA
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1DC
	ND	500	504	ug/L	101	0.84	SW846 6010B	07/14-07/16/02	E4K7M1DD
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Arsenic									
	ND	2000	2050	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1DE
	ND	2000	2030	ug/L	101	1.0	SW846 6010B	07/14-07/16/02	E4K7M1DF
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Barium									
	164	2000	2150	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1DG
	164	2000	2130	ug/L	98	0.96	SW846 6010B	07/14-07/16/02	E4K7M1DH
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1DJ
	ND	50.0	50.6	ug/L	101	0.72	SW846 6010B	07/14-07/16/02	E4K7M1DK
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cadmium									
	ND	50.0	49.5	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1DL
	ND	50.0	49.0	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1DM
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	183000	50000	233000	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1DN
	183000	50000	227000	ug/L	87	2.7	SW846 6010B	07/14-07/16/02	E4K7M1DP
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Chromium									
	ND	200	199	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1DQ
	ND	200	197	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1DR
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cobalt									
	ND	500	502	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1DT
	ND	500	498	ug/L	100	0.82	SW846 6010B	07/14-07/16/02	E4K7M1DU
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Copper									
	ND	250	249	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1DV
	ND	250	246	ug/L	98	1.1	SW846 6010B	07/14-07/16/02	E4K7M1DW
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Iron									
	103	1000	1090	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1DX
	103	1000	1080	ug/L	97	1.4	SW846 6010B	07/14-07/16/02	E4K7M1D0
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Lead									
	ND	500	488	ug/L	98		SW846 6010B	07/14-07/16/02	E4K7M1D1
	ND	500	485	ug/L	97	0.74	SW846 6010B	07/14-07/16/02	E4K7M1D2
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Magnesium									
	69100	50000	121000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1D3
	69100	50000	118000	ug/L	98	2.3	SW846 6010B	07/14-07/16/02	E4K7M1D4
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	95.6	500	606	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D5
	95.6	500	599	ug/L	101	1.2	SW846 6010B	07/14-07/16/02	E4K7M1D6
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Nickel									
	ND	500	494	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D7
	ND	500	489	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D8
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Potassium									
	11400	50000	64400	ug/L	106		SW846 6010B	07/14-07/16/02	E4K7M1D9
	11400	50000	63400	ug/L	104	1.6	SW846 6010B	07/14-07/16/02	E4K7M1EA
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Selenium									
	ND	2000	1930	ug/L	96		SW846 6010B	07/14-07/16/02	E4K7M1EC
	ND	2000	1920	ug/L	96	0.49	SW846 6010B	07/14-07/16/02	E4K7M1ED
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Silver									
	ND	50.0	50.6	ug/L	101		SW846 6010B	07/14-07/16/02	E4K7M1CH
	ND	50.0	50.0	ug/L	100	1.2	SW846 6010B	07/14-07/16/02	E4K7M1CJ
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Sodium									
	92300	50000	144000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1CK
	92300	50000	140000	ug/L	96	2.5	SW846 6010B	07/14-07/16/02	E4K7M1CL
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Thallium									
	ND	2000	1990	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1CM
	ND	2000	1970	ug/L	99	0.67	SW846 6010B	07/14-07/16/02	E4K7M1CN
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	495	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1CP
	ND	500	492	ug/L	98	0.62	SW846 6010B	07/14-07/16/02	E4K7M1CQ
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Zinc									
	ND	500	526	ug/L	105		SW846 6010B	07/14-07/16/02	E4K7M1CR
	ND	500	523	ug/L	105	0.68	SW846 6010B	07/14-07/16/02	E4K7M1CT
			Dilution Factor: 1						
			Analysis Time..: 11:25						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195092							
Mercury	108	(73 - 125)			SW846 7470A	07/14/02	E4K8L1DJ
	107	(73 - 125)	0.93	(0-20)	SW846 7470A	07/14/02	E4K8L1DK
		Dilution Factor: 1					
		Analysis Time..: 15:50					
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195097							
Aluminum	101	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AC
	101	(75 - 125)	0.23	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Antimony	99	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AF
	99	(75 - 125)	0.45	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AG
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Arsenic	102	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AJ
	102	(75 - 125)	0.15	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AK
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Barium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AM
	100	(75 - 125)	0.27	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AN
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Beryllium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AQ
	100	(75 - 125)	0.04	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AR
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Cadmium	97	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AU
	97	(75 - 125)	0.26	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1AV
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Calcium	76	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1AX
	83	(75 - 125)	1.5	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A0
		Dilution Factor: 1					
		Analysis Time..: 16:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A2
	96	(75 - 125)	0.09	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A3
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Cobalt	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A5
	100	(75 - 125)	0.34	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A6
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Copper	98	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1A8
	97	(75 - 125)	0.22	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1A9
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Iron	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CC
	94	(75 - 125)	2.2	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Lead	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CF
	96	(75 - 125)	0.55	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CG
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Magnesium	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CJ
	99	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CK
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Manganese	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CM
	100	(75 - 125)	0.13	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CN
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Nickel	96	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CQ
	96	(75 - 125)	0.45	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CR
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Potassium	104	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CU
	104	(75 - 125)	0.57	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1CV
		Dilution Factor: 1					
		Analysis Time..: 16:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	97	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1CX
	98	(75 - 125)	0.48	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C0
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Silver	99	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C2
	99	(75 - 125)	0.22	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C3
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Sodium	89	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C5
	94	(75 - 125)	1.6	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C6
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Thallium	100	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1C8
	100	(75 - 125)	0.17	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1C9
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Vanadium	98	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1DC
	98	(75 - 125)	0.23	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1DD
		Dilution Factor: 1					
		Analysis Time..: 16:49					
Zinc	105	(75 - 125)			SW846 6010B	07/14-07/15/02	E4K8L1DF
	105	(75 - 125)	0.11	(0-20)	SW846 6010B	07/14-07/15/02	E4K8L1DG
		Dilution Factor: 1					
		Analysis Time..: 16:49					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195092									
Mercury									
	ND	1.00	1.08	ug/L	108		SW846 7470A	07/14/02	E4K8L1DJ
	ND	1.00	1.07	ug/L	107	0.93	SW846 7470A	07/14/02	E4K8L1DK
			Dilution Factor: 1						
			Analysis Time..: 15:50						
MS Lot-Sample #: H2G120173-002 **Prep Batch #...:** 2195097									
Aluminum									
	97.8	2000	2110	ug/L	101		SW846 6010B	07/14-07/15/02	E4K8L1AC
	97.8	2000	2110	ug/L	101	0.23	SW846 6010B	07/14-07/15/02	E4K8L1AD
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Antimony									
	ND	500	497	ug/L	99		SW846 6010B	07/14-07/15/02	E4K8L1AF
	ND	500	495	ug/L	99	0.45	SW846 6010B	07/14-07/15/02	E4K8L1AG
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Arsenic									
	ND	2000	2050	ug/L	102		SW846 6010B	07/14-07/15/02	E4K8L1AJ
	ND	2000	2050	ug/L	102	0.15	SW846 6010B	07/14-07/15/02	E4K8L1AK
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Barium									
	160	2000	2150	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1AM
	160	2000	2160	ug/L	100	0.27	SW846 6010B	07/14-07/15/02	E4K8L1AN
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Beryllium									
	ND	50.0	50.1	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1AQ
	ND	50.0	50.1	ug/L	100	0.04	SW846 6010B	07/14-07/15/02	E4K8L1AR
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Cadmium									
	ND	50.0	48.6	ug/L	97		SW846 6010B	07/14-07/15/02	E4K8L1AU
	ND	50.0	48.7	ug/L	97	0.26	SW846 6010B	07/14-07/15/02	E4K8L1AV
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	187000	50000	225000	ug/L	76		SW846 6010B	07/14-07/15/02	E4K8L1AX
	187000	50000	229000	ug/L	83	1.5	SW846 6010B	07/14-07/15/02	E4K8L1A0
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Chromium									
	ND	200	191	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1A2
	ND	200	191	ug/L	96	0.09	SW846 6010B	07/14-07/15/02	E4K8L1A3
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Cobalt									
	ND	500	500	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1A5
	ND	500	498	ug/L	100	0.34	SW846 6010B	07/14-07/15/02	E4K8L1A6
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Copper									
	ND	250	244	ug/L	98		SW846 6010B	07/14-07/15/02	E4K8L1A8
	ND	250	244	ug/L	97	0.22	SW846 6010B	07/14-07/15/02	E4K8L1A9
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Iron									
	59.8	1000	1020	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1CC
	59.8	1000	999	ug/L	94	2.2	SW846 6010B	07/14-07/15/02	E4K8L1CD
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Lead									
	ND	500	480	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1CF
	ND	500	482	ug/L	96	0.55	SW846 6010B	07/14-07/15/02	E4K8L1CG
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Magnesium									
	74100	50000	122000	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1CJ
	74100	50000	124000	ug/L	99	1.2	SW846 6010B	07/14-07/15/02	E4K8L1CK
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	94.0	500	592	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1CM
	94.0	500	593	ug/L	100	0.13	SW846 6010B	07/14-07/15/02	E4K8L1CN
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Nickel									
	ND	500	482	ug/L	96		SW846 6010B	07/14-07/15/02	E4K8L1CQ
	ND	500	479	ug/L	96	0.45	SW846 6010B	07/14-07/15/02	E4K8L1CR
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Potassium									
	12100	50000	63900	ug/L	104		SW846 6010B	07/14-07/15/02	E4K8L1CU
	12100	50000	64300	ug/L	104	0.57	SW846 6010B	07/14-07/15/02	E4K8L1CV
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Selenium									
	ND	2000	1950	ug/L	97		SW846 6010B	07/14-07/15/02	E4K8L1CX
	ND	2000	1960	ug/L	98	0.48	SW846 6010B	07/14-07/15/02	E4K8L1C0
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Silver									
	ND	50.0	49.3	ug/L	99		SW846 6010B	07/14-07/15/02	E4K8L1C2
	ND	50.0	49.4	ug/L	99	0.22	SW846 6010B	07/14-07/15/02	E4K8L1C3
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Sodium									
	97600	50000	142000	ug/L	89		SW846 6010B	07/14-07/15/02	E4K8L1C5
	97600	50000	145000	ug/L	94	1.6	SW846 6010B	07/14-07/15/02	E4K8L1C6
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Thallium									
	6.4	2000	2000	ug/L	100		SW846 6010B	07/14-07/15/02	E4K8L1C8
	6.4	2000	2000	ug/L	100	0.17	SW846 6010B	07/14-07/15/02	E4K8L1C9
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	490	ug/L	98		SW846 6010B	07/14-07/15/02	E4K8L1DC
	ND	500	489	ug/L	98	0.23	SW846 6010B	07/14-07/15/02	E4K8L1DD
			Dilution Factor: 1						
			Analysis Time..: 16:49						
Zinc									
	ND	500	525	ug/L	105		SW846 6010B	07/14-07/15/02	E4K8L1DF
	ND	500	525	ug/L	105	0.11	SW846 6010B	07/14-07/15/02	E4K8L1DG
			Dilution Factor: 1						
			Analysis Time..: 16:49						

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: CC3004

General Chemistry

Lot-Sample #...: H2G130120-001 **Work Order #...:** E4M1H **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**155**	**5.0**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
		Dilution Factor: 5		MDL.....: 1.5		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1		MDL.....: 0.0030		
Hardness, as CaCO3	**1370**	**25.0**	**mg/L**	**MCAWW 130.2**	**07/14/02**	**2195123**
		Dilution Factor: 5		MDL.....: 10.5		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	07/13/02	2194158
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	**32.3**	**5.0**	**mg/L**	**MCAWW 375.4**	**07/15/02**	**2196140**
		Dilution Factor: 1		MDL.....: 0.18		
Total Alkalinity	**979**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/13/02**	**2196110**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**1020**	**20.0**	**mg/L**	**MCAWW 160.1**	**07/15-07/16/02**	**2196233**
		Dilution Factor: 2		MDL.....: 8.6		
Total Organic Carbon	**3.7**	**1.0**	**mg/L**	**SW846 9060**	**07/15/02**	**2197093**
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	**124**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/15/02**	**2196240**
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**742**	**12.5**	**NTU**	**MCAWW 180.1**	**07/13/02**	**2194157**
		Dilution Factor: 25		MDL.....: 12.5		

SHAW E & I INC

Client Sample ID: CC3001

General Chemistry

Lot-Sample #...: H2G130120-003 **Work Order #...:** E4M1M **Matrix.....:** WATER
Date Sampled...: 07/12/02 **Date Received..:** 07/13/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**896**	**10.0**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
		Dilution Factor: 10		MDL.....: 3.0		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/17/02	2198428
		Dilution Factor: 1		MDL.....: 0.0030		
Hardness, as CaCO3	**647**	**25.0**	**mg/L**	**MCAWW 130.2**	**07/14/02**	**2195123**
		Dilution Factor: 5		MDL.....: 10.5		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	07/13/02	2194158
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	**9.2**	**5.0**	**mg/L**	**MCAWW 375.4**	**07/15/02**	**2196140**
		Dilution Factor: 1		MDL.....: 0.18		
Total Alkalinity	**367**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/13/02**	**2196110**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**2040**	**20.0**	**mg/L**	**MCAWW 160.1**	**07/15-07/16/02**	**2196233**
		Dilution Factor: 2		MDL.....: 8.6		
Total Organic Carbon	**1.9**	**1.0**	**mg/L**	**SW846 9060**	**07/15/02**	**2197093**
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	**21.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/15/02**	**2196240**
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**39.0**	**1.0**	**NTU**	**MCAWW 180.1**	**07/13/02**	**2194157**
		Dilution Factor: 2		MDL.....: 1.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AA		MB Lot-Sample #:	A2G150000-143	
	ND	1.0	mg/L	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E4V1H1AA		MB Lot-Sample #:	H2G170000-392	
	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E4V301AA		MB Lot-Sample #:	H2G170000-428	
	ND	0.010	mg/L	SW846 9012A	07/17/02	2198428
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E4NK81AA		MB Lot-Sample #:	A2G140000-123	
	ND	5.0	mg/L	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1				
Nitrate		Work Order #: E4M961AA		MB Lot-Sample #:	A2G130000-158	
	ND	0.10	mg/L	MCAWW 353.2	07/13/02	2194158
		Dilution Factor: 1				
Sulfate		Work Order #: E4NPD1AA		MB Lot-Sample #:	A2G150000-140	
	ND	5.0	mg/L	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1				
Total Alkalinity		Work Order #: E4NMJ1AA		MB Lot-Sample #:	A2G150000-110	
	ND	5.0	mg/L	MCAWW 310.1	07/13/02	2196110
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: E4NVQ1AA		MB Lot-Sample #:	A2G150000-233	
	ND	10.0	mg/L	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E4QC31AA		MB Lot-Sample #:	A2G160000-093	
	ND	1.0	mg/L	SW846 9060	07/15/02	2197093
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: E4NVR1AA		MB Lot-Sample #:	A2G150000-240	
	ND	4.0	mg/L	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: E4M931AA		MB Lot-Sample #:	A2G130000-157	
	ND	0.50	NTU	MCAWW 180.1	07/13/02	2194157
		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 #...: H2G130120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AC	LCS Lot-Sample#: A2G150000-143		
	94	(90 - 115)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E4V1H1AC	LCS Lot-Sample#: H2G170000-392		
	100	(88 - 113)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E4V301AC	LCS Lot-Sample#: H2G170000-428		
	102	(88 - 113)	SW846 9012A	07/17/02	2198428
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E4NK81AC	LCS Lot-Sample#: A2G140000-123		
	102	(84 - 116)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1			
Nitrate		Work Order #: E4M961AC	LCS Lot-Sample#: A2G130000-158		
	105	(77 - 116)	MCAWW 353.2	07/13/02	2194158
		Dilution Factor: 1			
Sulfate		Work Order #: E4NPD1AC	LCS Lot-Sample#: A2G150000-140		
	101	(80 - 112)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1			
Total Alkalinity		Work Order #: E4NMJ1AC	LCS Lot-Sample#: A2G150000-110		
	112	(90 - 127)	MCAWW 310.1	07/13/02	2196110
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: E4NVQ1AC	LCS Lot-Sample#: A2G150000-233		
	97	(69 - 120)	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E4QC31AC	LCS Lot-Sample#: A2G160000-093		
	95	(88 - 115)	SW846 9060	07/15/02	2197093
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: E4NVR1AC	LCS Lot-Sample#: A2G150000-240		
	104	(66 - 119)	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: E4M931AC	LCS Lot-Sample#: A2G130000-157		
	92	(75 - 125)	MCAWW 180.1	07/13/02	2194157
		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 #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #: E4NPK1AC		LCS Lot-Sample#:	A2G150000-143	
	233	219	mg/L	94	MCAWW 325.2	07/15/02	2196143
			Dilution Factor: 1				
Cyanide, Total			Work Order #: E4V1H1AC		LCS Lot-Sample#:	H2G170000-392	
	0.200	0.200	mg/L	100	SW846 9012A	07/16/02	2198392
			Dilution Factor: 1				
Cyanide, Total			Work Order #: E4V301AC		LCS Lot-Sample#:	H2G170000-428	
	0.200	0.205	mg/L	102	SW846 9012A	07/17/02	2198428
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #: E4NK81AC		LCS Lot-Sample#:	A2G140000-123	
	163	167	mg/L	102	MCAWW 130.2	07/14/02	2195123
			Dilution Factor: 1				
Nitrate			Work Order #: E4M961AC		LCS Lot-Sample#:	A2G130000-158	
	1.00	1.05	mg/L	105	MCAWW 353.2	07/13/02	2194158
			Dilution Factor: 1				
Sulfate			Work Order #: E4NPD1AC		LCS Lot-Sample#:	A2G150000-140	
	58.5	59.1	mg/L	101	MCAWW 375.4	07/15/02	2196140
			Dilution Factor: 1				
Total Alkalinity			Work Order #: E4NMJ1AC		LCS Lot-Sample#:	A2G150000-110	
	98.8	111	mg/L	112	MCAWW 310.1	07/13/02	2196110
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: E4NVQ1AC		LCS Lot-Sample#:	A2G150000-233	
	314	304	mg/L	97	MCAWW 160.1	07/15-07/16/02	2196233
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: E4QC31AC		LCS Lot-Sample#:	A2G160000-093	
	59.0	55.9	mg/L	95	SW846 9060	07/15/02	2197093
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: E4NVR1AC		LCS Lot-Sample#:	A2G150000-240	
	62.8	65.0	mg/L	104	MCAWW 160.2	07/15/02	2196240
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity			Work Order #:	E4M931AC	LCS Lot-Sample#:	A2G130000-157	
	1.00	0.920	NTU	92	MCAWW 180.1	07/13/02	2194157
			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 #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001	
	NC,MSB	(43 - 167)			MCAWW 325.2	07/15/02	2196143
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1					
Cyanide, Total		WO#: E4K7M1CW-MS/E4K7M1CX-MSD				MS Lot-Sample #: H2G120173-001	
	74 N	(77 - 126)			SW846 9012A	07/16/02	2198392
	48 N,*	(77 - 126)	42	(0-20)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1					
Cyanide, Total		WO#: E4M1M1CN-MS/E4M1M1CP-MSD				MS Lot-Sample #: H2G130120-003	
	72 N	(77 - 126)			SW846 9012A	07/17/02	2198428
	73 N	(77 - 126)	2.1	(0-20)	SW846 9012A	07/17/02	2198428
		Dilution Factor: 1					
Hardness, as CaCO3		WO#: E4K3Q1CR-MS/E4K3Q1CT-MSD				MS Lot-Sample #: A2G120163-001	
	93	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	95	(10 - 176)	1.2	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Hardness, as CaCO3		WO#: E4K7M1EP-MS/E4K7M1EQ-MSD				MS Lot-Sample #: H2G120173-001	
	105	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	105	(10 - 176)	0.0	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Nitrate		WO#: E4M1M1CJ-MS/E4M1M1CK-MSD				MS Lot-Sample #: H2G130120-003	
	99	(10 - 163)			MCAWW 353.2	07/13/02	2194158
	108	(10 - 163)	7.0	(0-24)	MCAWW 353.2	07/13/02	2194158
		Dilution Factor: 1					
Sulfate		WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001	
	NC,MSB	(22 - 151)			MCAWW 375.4	07/15/02	2196140
	NC,MSB	(22 - 151)		(0-31)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1					
Total Alkalinity		WO#: E4M1M1CL-MS/E4M1M1CM-MSD				MS Lot-Sample #: H2G130120-003	
	60	(10 - 160)			MCAWW 310.1	07/13/02	2196110
	61	(10 - 160)	0.54	(0-24)	MCAWW 310.1	07/13/02	2196110
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		WO#:	E4NH81AR-MS/E4NH81AT-MSD			MS Lot-Sample #:	A2G130185-001
	89	(72 - 136)			SW846 9060	07/15/02	2197093
	90	(72 - 136)	0.29	(0-20)	SW846 9060	07/15/02	2197093
		Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

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.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001		
	219	25.0	221	mg/L			MCAWW 325.2	07/15/02	2196143
			Qualifiers: NC,MSB						
	219	25.0	222	mg/L			MCAWW 325.2	07/15/02	2196143
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: E4K7M1CW-MS/E4K7M1CX-MSD				MS Lot-Sample #: H2G120173-001		
	ND	0.200	0.149 N	mg/L	74		SW846 9012A	07/16/02	2198392
	ND	0.200	0.0970	mg/L	48	42	SW846 9012A	07/16/02	2198392
			Qualifiers: N,*						
			Dilution Factor: 1						
Cyanide, Total			WO#: E4M1M1CN-MS/E4M1M1CP-MSD				MS Lot-Sample #: H2G130120-003		
	ND	0.200	0.143 N	mg/L	72		SW846 9012A	07/17/02	2198428
	ND	0.200	0.146 N	mg/L	73	2.1	SW846 9012A	07/17/02	2198428
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K3Q1CR-MS/E4K3Q1CT-MSD				MS Lot-Sample #: A2G120163-001		
	154	200	340	mg/L	93		MCAWW 130.2	07/14/02	2195123
	154	200	344	mg/L	95	1.2	MCAWW 130.2	07/14/02	2195123
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K7M1EP-MS/E4K7M1EQ-MSD				MS Lot-Sample #: H2G120173-001		
	772	1000	1830	mg/L	105		MCAWW 130.2	07/14/02	2195123
	772	1000	1830	mg/L	105	0.0	MCAWW 130.2	07/14/02	2195123
			Dilution Factor: 1						
Nitrate			WO#: E4M1M1CJ-MS/E4M1M1CK-MSD				MS Lot-Sample #: H2G130120-003		
	ND	0.250	0.314	mg/L	99		MCAWW 353.2	07/13/02	2194158
	ND	0.250	0.336	mg/L	108	7.0	MCAWW 353.2	07/13/02	2194158
			Dilution Factor: 1						
Sulfate			WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001		
	416	25.0	422	mg/L			MCAWW 375.4	07/15/02	2196140
			Qualifiers: NC,MSB						
	416	25.0	424	mg/L			MCAWW 375.4	07/15/02	2196140
			Qualifiers: NC,MSB						
			Dilution Factor: 1						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G130120 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: E4M1M1CL-MS/E4M1M1CM-MSD				MS Lot-Sample #: H2G130120-003		
	367	500	666	mg/L	60		MCAWW 310.1	07/13/02	2196110
	367	500	670	mg/L	61	0.54	MCAWW 310.1	07/13/02	2196110
			Dilution Factor: 1						
Total Organic Carbon			WO#: E4NH81AR-MS/E4NH81AT-MSD				MS Lot-Sample #: A2G130185-001		
	1.0	25.0	23.4	mg/L	89		SW846 9060	07/15/02	2197093
	1.0	25.0	23.5	mg/L	90	0.29	SW846 9060	07/15/02	2197093
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

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.

* Relative percent difference (RPD) is outside stated control limits.

Sample Receipt Documentation

A2b130120

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 12 02STL K

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/12/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney/865-588-6401
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266874

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
CC3004	WATER	7/12/02 1405	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C	Rec'd temp. 3 C	
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330	Custody seals	intact
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water Ph 2	1 cooler Fe	ext # 833154266874
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water Ph2	MFH-07-13-02	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A Ph 12		
CC3001	WATER	7/12/02 0920	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water Ph2		
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water		
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A Ph12		
CC5005 (T	WATER	7/12/02	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		

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: X

Level of QC Required:
Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/12/02 Time: 1800	1. Received by: Matthew F Howard	Date: 07-13-02 Time: 10:30
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments: Many air bubbles in CC3004 TCL VOC's (could not remove)

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: Shaw E+I PROJECT: PMOW Lot No.: A2613012D

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: Matthew J Howard DATE: 07-13-02

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 : pm DATE: 7/15/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CC3004	8260	3c	1 of 3 VOAs have headspace.

☒ Client informed on 7/15/02 by email. Person contacted: MM McMyler / V Beaver
☐ Noted actions in comments section above.
☒ No action necessary; process as is.
Project Manager: pm Date: 7/15/02

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): _____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2G130120

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA	
a. Was QuanTEMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	~~X~~ gm 7/15/02	X		not received yet from SRNC
c. Is preservative check (pH) noted on RFA/COC?		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		fax flagged turned on gm 7/15/02
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		added gm 7/15/
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: 7/15/02

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 12 02STL C

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/12/01
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior/330-497-9396
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 8331542 16863

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
CC3001	WATER	7/12/02 0920	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
↓	WATER	↓	2 ~~3~~ - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
↓	WATER	↓	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC3004	WATER	7/12/02 1405	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
↓	WATER	↓	2 ~~3~~ - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
↓	WATER	↓	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
DUP	WATER		1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
	WATER		3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
	WATER		1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		

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: X

Level of QC Required:

Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/12/02 Time: 1800	1. Received by: Anne Sandoval	Date: 7-13-02 Time: 9:55
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091							
Mercury	99	(73 - 125)			SW846 7470A	07/14/02	E4K7M1CU
	101	(73 - 125)	1.8	(0-20)	SW846 7470A	07/14/02	E4K7M1CV
		Dilution Factor: 1					
		Analysis Time..: 15:16					
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195098							
Aluminum	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1C9
	101	(75 - 125)	0.75	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DA
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Antimony	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DC
	101	(75 - 125)	0.84	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DD
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Arsenic	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DE
	101	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DF
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Barium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DG
	98	(75 - 125)	0.96	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DH
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Beryllium	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DJ
	101	(75 - 125)	0.72	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DK
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cadmium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DL
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DM
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Calcium	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DN
	87	(75 - 125)	2.7	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DP
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DQ
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DR
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Cobalt	100	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DT
	100	(75 - 125)	0.82	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DU
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Copper	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DV
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1DW
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Iron	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1DX
	97	(75 - 125)	1.4	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D0
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Lead	98	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D1
	97	(75 - 125)	0.74	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D2
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Magnesium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D3
	98	(75 - 125)	2.3	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D4
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Manganese	102	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D5
	101	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D6
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Nickel	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D7
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1D8
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Potassium	106	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1D9
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1EA
		Dilution Factor: 1					
		Analysis Time..: 11:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	96	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1EC
	96	(75 - 125)	0.49	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1ED
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Silver	101	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CH
	100	(75 - 125)	1.2	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CJ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Sodium	103	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CK
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CL
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Thallium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CM
	99	(75 - 125)	0.67	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CN
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Vanadium	99	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CP
	98	(75 - 125)	0.62	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CQ
		Dilution Factor: 1					
		Analysis Time..: 11:25					
Zinc	105	(75 - 125)			SW846 6010B	07/14-07/16/02	E4K7M1CR
	105	(75 - 125)	0.68	(0-20)	SW846 6010B	07/14-07/16/02	E4K7M1CT
		Dilution Factor: 1					
		Analysis Time..: 11:25					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195091									
Mercury									
	ND	1.00	0.992	ug/L	99		SW846 7470A	07/14/02	E4K7M1C
	ND	1.00	1.01	ug/L	101	1.8	SW846 7470A	07/14/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 15:16						
MS Lot-Sample #: H2G120173-001 **Prep Batch #...:** 2195098									
Aluminum									
	44.6	2000	2080	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1C
	44.6	2000	2070	ug/L	101	0.75	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	504	ug/L	101	0.84	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Arsenic									
	ND	2000	2050	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	2000	2030	ug/L	101	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Barium									
	164	2000	2150	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	164	2000	2130	ug/L	98	0.96	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	50.0	50.6	ug/L	101	0.72	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cadmium									
	ND	50.0	49.5	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	50.0	49.0	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 Matrix.....: WATER
Date Sampled...: 07/11/02 Date Received..: 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	183000	50000	233000	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1D
	183000	50000	227000	ug/L	87	2.7	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Chromium									
	ND	200	199	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	200	197	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Cobalt									
	ND	500	502	ug/L	100		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	498	ug/L	100	0.82	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Copper									
	ND	250	249	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	250	246	ug/L	98	1.1	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Iron									
	103	1000	1090	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	103	1000	1080	ug/L	97	1.4	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Lead									
	ND	500	488	ug/L	98		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	485	ug/L	97	0.74	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Magnesium									
	69100	50000	121000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1D
	69100	50000	118000	ug/L	98	2.3	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	95.6	500	606	ug/L	102		SW846 6010B	07/14-07/16/02	E4K7M1D
	95.6	500	599	ug/L	101	1.2	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Nickel									
	ND	500	494	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1D
	ND	500	489	ug/L	98	1.0	SW846 6010B	07/14-07/16/02	E4K7M1D
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Potassium									
	11400	50000	64400	ug/L	106		SW846 6010B	07/14-07/16/02	E4K7M1D
	11400	50000	63400	ug/L	104	1.6	SW846 6010B	07/14-07/16/02	E4K7M1E
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Selenium									
	ND	2000	1930	ug/L	96		SW846 6010B	07/14-07/16/02	E4K7M1E
	ND	2000	1920	ug/L	96	0.49	SW846 6010B	07/14-07/16/02	E4K7M1E
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Silver									
	ND	50.0	50.6	ug/L	101		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	50.0	50.0	ug/L	100	1.2	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Sodium									
	92300	50000	144000	ug/L	103		SW846 6010B	07/14-07/16/02	E4K7M1C
	92300	50000	140000	ug/L	96	2.5	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Thallium									
	ND	2000	1990	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	2000	1970	ug/L	99	0.67	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	495	ug/L	99		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	500	492	ug/L	98	0.62	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						
Zinc									
	ND	500	526	ug/L	105		SW846 6010B	07/14-07/16/02	E4K7M1C
	ND	500	523	ug/L	105	0.68	SW846 6010B	07/14-07/16/02	E4K7M1C
			Dilution Factor: 1						
			Analysis Time..: 11:25						

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: CC3005

General Chemistry

Lot-Sample #...: H2G120173-001 **Work Order #...:** E4K7M **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**219**	**5.0**	**mg/L**	**MCAWW 325.2**	**07/15/02**	**2196143**
	Dilution Factor: 5		MDL.....: 1.5			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**772**	**25.0**	**mg/L**	**MCAWW 130.2**	**07/14/02**	**2195123**
	Dilution Factor: 5		MDL.....: 10.5			
Nitrate	ND	0.10	mg/L	MCAWW 353.2	07/12/02	2193453
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	**416**	**100**	**mg/L**	**MCAWW 375.4**	**07/15/02**	**2196140**
	Dilution Factor: 20		MDL.....: 3.6			
Total Alkalinity	**329**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/12/02**	**2196113**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**1180**	**20.0**	**mg/L**	**MCAWW 160.1**	**07/15-07/16/02**	**2196233**
	Dilution Factor: 2		MDL.....: 8.6			
Total Organic Carbon	**2.7**	**1.0**	**mg/L**	**SW846 9060**	**07/13/02**	**2196101**
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	**5.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**07/15/02**	**2196240**
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**23.6**	**0.50**	**NTU**	**MCAWW 180.1**	**07/12/02**	**2193459**
	Dilution Factor: 1		MDL.....: 0.50			

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AA		MB Lot-Sample #:	A2G150000-143	
	ND	1.0	mg/L	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1				
Cyanide, Total		Work Order #: E4V1H1AA		MB Lot-Sample #:	H2G170000-392	
	ND	0.010	mg/L	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: E4NK81AA		MB Lot-Sample #:	A2G140000-123	
	ND	5.0	mg/L	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1				
Nitrate		Work Order #: E4MJ41AA		MB Lot-Sample #:	A2G120000-453	
	ND	0.10	mg/L	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1				
Sulfate		Work Order #: E4NPD1AA		MB Lot-Sample #:	A2G150000-140	
	ND	5.0	mg/L	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1				
Total Alkalinity		Work Order #: E4NML1AA		MB Lot-Sample #:	A2G150000-113	
	ND	5.0	mg/L	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: E4NVQ1AA		MB Lot-Sample #:	A2G150000-233	
	ND	10.0	mg/L	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: E4NLP1AA		MB Lot-Sample #:	A2G150000-101	
	ND	1.0	mg/L	SW846 9060	07/13/02	2196101
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: E4NVR1AA		MB Lot-Sample #:	A2G150000-240	
	ND	4.0	mg/L	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1				
Turbidity		Work Order #: E4MK61AA		MB Lot-Sample #:	A2G120000-459	
	ND	0.50	NTU	MCAWW 180.1	07/12/02	2193459
		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 #...: H2G120173 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: E4NPK1AC		LCS Lot-Sample#: A2G150000-143	
	94	(90 - 115)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1			
Cyanide, Total		Work Order #: E4V1H1AC		LCS Lot-Sample#: H2G170000-392	
	100	(88 - 113)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: E4NK81AC		LCS Lot-Sample#: A2G140000-123	
	102	(84 - 116)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1			
Nitrate		Work Order #: E4MJ41AC		LCS Lot-Sample#: A2G120000-453	
	106	(77 - 116)	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1			
Sulfate		Work Order #: E4NPD1AC		LCS Lot-Sample#: A2G150000-140	
	101	(80 - 112)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1			
Total Alkalinity		Work Order #: E4NML1AC		LCS Lot-Sample#: A2G150000-113	
	112	(90 - 127)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: E4NVQ1AC		LCS Lot-Sample#: A2G150000-233	
	97	(69 - 120)	MCAWW 160.1	07/15-07/16/02	2196233
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: E4NLP1AC		LCS Lot-Sample#: A2G150000-101	
	95	(88 - 115)	SW846 9060	07/13/02	2196101
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: E4NVR1AC		LCS Lot-Sample#: A2G150000-240	
	104	(66 - 119)	MCAWW 160.2	07/15/02	2196240
		Dilution Factor: 1			
Turbidity		Work Order #: E4MK61AC		LCS Lot-Sample#: A2G120000-459	
	93	(75 - 125)	MCAWW 180.1	07/12/02	2193459
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **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 #...: H2G120173 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	E4NPK1AC	LCS Lot-Sample#:	A2G150000-143	
	233	219	mg/L	94	MCAWW 325.2	07/15/02	2196143
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	E4V1H1AC	LCS Lot-Sample#:	H2G170000-392	
	0.200	0.200	mg/L	100	SW846 9012A	07/16/02	2198392
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	E4NK81AC	LCS Lot-Sample#:	A2G140000-123	
	163	167	mg/L	102	MCAWW 130.2	07/14/02	2195123
			Dilution Factor: 1				
Nitrate			Work Order #:	E4MJ41AC	LCS Lot-Sample#:	A2G120000-453	
	1.00	1.06	mg/L	106	MCAWW 353.2	07/12/02	2193453
			Dilution Factor: 1				
Sulfate			Work Order #:	E4NPD1AC	LCS Lot-Sample#:	A2G150000-140	
	58.5	59.1	mg/L	101	MCAWW 375.4	07/15/02	2196140
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	E4NML1AC	LCS Lot-Sample#:	A2G150000-113	
	98.8	111	mg/L	112	MCAWW 310.1	07/12/02	2196113
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	E4NVQ1AC	LCS Lot-Sample#:	A2G150000-233	
	314	304	mg/L	97	MCAWW 160.1	07/15-07/16/02	2196233
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	E4NLP1AC	LCS Lot-Sample#:	A2G150000-101	
	59.0	56.3	mg/L	95	SW846 9060	07/13/02	2196101
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	E4NVR1AC	LCS Lot-Sample#:	A2G150000-240	
	62.8	65.0	mg/L	104	MCAWW 160.2	07/15/02	2196240
			Dilution Factor: 1				
Turbidity			Work Order #:	E4MK61AC	LCS Lot-Sample#:	A2G120000-459	
	1.00	0.930	NTU	93	MCAWW 180.1	07/12/02	2193459
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G120173 **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.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001	
	NC,MSB	(43 - 167)			MCAWW 325.2	07/15/02	2196143
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	07/15/02	2196143
		Dilution Factor: 1					
Cyanide, Total		WO#: E4K7M1CW-MS/E4K7M1CX-MSD				MS Lot-Sample #: H2G120173-001	
	74 N	(77 - 126)			SW846 9012A	07/16/02	2198392
	48 N,*	(77 - 126)	42	(0-20)	SW846 9012A	07/16/02	2198392
		Dilution Factor: 1					
Hardness, as CaCO3		WO#: E4K3Q1CR-MS/E4K3Q1CT-MSD				MS Lot-Sample #: A2G120163-001	
	93	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	95	(10 - 176)	1.2	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Hardness, as CaCO3		WO#: E4K7M1EP-MS/E4K7M1EQ-MSD				MS Lot-Sample #: H2G120173-001	
	105	(10 - 176)			MCAWW 130.2	07/14/02	2195123
	105	(10 - 176)	0.0	(0-23)	MCAWW 130.2	07/14/02	2195123
		Dilution Factor: 1					
Nitrate		WO#: E4K7M1EG-MS/E4K7M1EH-MSD				MS Lot-Sample #: H2G120173-001	
	96	(10 - 163)			MCAWW 353.2	07/12/02	2193453
	90	(10 - 163)	5.5	(0-24)	MCAWW 353.2	07/12/02	2193453
		Dilution Factor: 1					
Sulfate		WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001	
	NC,MSB	(22 - 151)			MCAWW 375.4	07/15/02	2196140
	NC,MSB	(22 - 151)		(0-31)	MCAWW 375.4	07/15/02	2196140
		Dilution Factor: 1					
Total Alkalinity		WO#: E4K3Q1CW-MS/E4K3Q1CX-MSD				MS Lot-Sample #: A2G120163-001	
	96	(10 - 160)			MCAWW 310.1	07/12/02	2196113
	96	(10 - 160)	0.01	(0-24)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1					
Total Alkalinity		WO#: E4K7M1ET-MS/E4K7M1EU-MSD				MS Lot-Sample #: H2G120173-001	
	28	(10 - 160)			MCAWW 310.1	07/12/02	2196113
	31	(10 - 160)	2.6	(0-24)	MCAWW 310.1	07/12/02	2196113
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:	E4LA11CM-MS/E4LA11CN-MSD			MS Lot-Sample #:	A2G120176-007
	96	(10 - 160)			MCAWW 310.1	07/13/02	2196113
	93	(10 - 160)	2.4	(0-24)	MCAWW 310.1	07/13/02	2196113
		Dilution Factor: 1					
Total Organic Carbon		WO#:	E4K7M1EL-MS/E4K7M1EM-MSD			MS Lot-Sample #:	H2G120173-001
	102	(72 - 136)			SW846 9060	07/13/02	2196101
	101	(72 - 136)	0.95	(0-20)	SW846 9060	07/13/02	2196101
		Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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 #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Chloride - Automated			WO#: E4K7M1EE-MS/E4K7M1EF-MSD				MS Lot-Sample #: H2G120173-001		
	219	25.0	221	mg/L			MCAWW 325.2	07/15/02	219614
			Qualifiers: NC,MSB						
	219	25.0	222	mg/L			MCAWW 325.2	07/15/02	219614
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: E4K7M1CW-MS/E4K7M1CX-MSD				MS Lot-Sample #: H2G120173-001		
	ND	0.200	0.149 N	mg/L	74		SW846 9012A	07/16/02	219839
	ND	0.200	0.0970	mg/L	48	42	SW846 9012A	07/16/02	219839
			Qualifiers: N,*						
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K3Q1CR-MS/E4K3Q1CT-MSD				MS Lot-Sample #: A2G120163-001		
	154	200	340	mg/L	93		MCAWW 130.2	07/14/02	219512
	154	200	344	mg/L	95	1.2	MCAWW 130.2	07/14/02	219512
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: E4K7M1EP-MS/E4K7M1EQ-MSD				MS Lot-Sample #: H2G120173-001		
	772	1000	1830	mg/L	105		MCAWW 130.2	07/14/02	219512
	772	1000	1830	mg/L	105	0.0	MCAWW 130.2	07/14/02	219512
			Dilution Factor: 1						
Nitrate			WO#: E4K7M1EG-MS/E4K7M1EH-MSD				MS Lot-Sample #: H2G120173-001		
	ND	0.250	0.284	mg/L	96		MCAWW 353.2	07/12/02	219345
	ND	0.250	0.268	mg/L	90	5.5	MCAWW 353.2	07/12/02	219345
			Dilution Factor: 1						
Sulfate			WO#: E4K7M1EJ-MS/E4K7M1EK-MSD				MS Lot-Sample #: H2G120173-001		
	416	25.0	422	mg/L			MCAWW 375.4	07/15/02	219614
			Qualifiers: NC,MSB						
	416	25.0	424	mg/L			MCAWW 375.4	07/15/02	219614
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Total Alkalinity			WO#: E4K3Q1CW-MS/E4K3Q1CX-MSD				MS Lot-Sample #: A2G120163-001		
	163	500	645	mg/L	96		MCAWW 310.1	07/12/02	219611
	163	500	645	mg/L	96	0.01	MCAWW 310.1	07/12/02	219611
			Dilution Factor: 1						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2G120173 **Matrix.....:** WATER
Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Alkalinity			WO#: E4K7M1ET-MS/E4K7M1EU-MSD				MS Lot-Sample #: H2G120173-001		
	329	500	470	mg/L	28		MCAWW 310.1	07/12/02	219611
	329	500	482	mg/L	31	2.6	MCAWW 310.1	07/12/02	219611
			Dilution Factor: 1						
Total Alkalinity			WO#: E4LA11CM-MS/E4LA11CN-MSD				MS Lot-Sample #: A2G120176-007		
	122	500	602	mg/L	96		MCAWW 310.1	07/13/02	219611
	122	500	588	mg/L	93	2.4	MCAWW 310.1	07/13/02	219611
			Dilution Factor: 1						
Total Organic Carbon			WO#: E4K7M1EL-MS/E4K7M1EM-MSD				MS Lot-Sample #: H2G120173-001		
	2.7	25.0	28.2	mg/L	102		SW846 9060	07/13/02	219610
	2.7	25.0	28.0	mg/L	101	0.95	SW846 9060	07/13/02	219610
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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 #...: H2G120173 **Work Order #...:** E4JH2-SMP E4JH2-DUP **Matrix.....:** WATER

Date Sampled...: 07/10/02 **Date Received..:** 07/11/02

% Moisture.....: 100 **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Suspended Solids						SD Lot-Sample #:	A2G110269-001	
	50.0	50.0	mg/L	0.0	(0-20)	MCAWW 160.2	07/15/02	219624

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2G120173 **Work Order #...:** E4K7M-SMP E4K7M-DUP **Matrix.....:** WATER

Date Sampled...: 07/11/02 **Date Received..:** 07/12/02

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Suspended Solids						SD Lot-Sample #:	H2G120173-001	
	5.0	5.0	mg/L	0.0	(0-20)	MCAWW 160.2	07/15/02	219624
		Dilution Factor: 1						
Turbidity						SD Lot-Sample #:	H2G120173-001	
	23.6	24.3	NTU	2.9	(0-20)	MCAWW 180.1	07/12/02	219345
		Dilution Factor: 1						
Total Dissolved Solids						SD Lot-Sample #:	H2G120173-001	
	1180	1180	mg/L	0.68	(0-20)	MCAWW 160.1	07/15-07/16/02	219623
		Dilution Factor: 2						

Sample Receipt Documentation

H26120173

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 H 02STL K

PAGE 1 OF 2

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney/865-588-6401
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266885

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
CC3005 –	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC3005MS	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
CC5002 (T	WATER	7/11/02	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		

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: X

Level of QC Required:
Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/11/02 Time: 1800	1. Received by: S Guthrie	Date: 7-12-02 Time: 0830
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

H2G120173

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02STL K

Bill To: Accounting
Shaw E & I

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CC 3005-MSD	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	pH 13	
~~CC 3006 MSK~~								
CC 3006	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
	WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
	WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
	WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water	pH 2	
	WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A	not received	
CC 3002	WATER	7/11/02 0830	3-vial	40ml	Cool/HCL	BTEX(3) (not volatiles as sample labels say)		
CC 3002	WATER		3-vial	40ml	cool/HCL	GRO-8015B		
CC 3002	WATER		2-Amber	1000ml	Cool	DRO-8015B		
						DKK		

TCU

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: Shaw E+I PROJECT: PBOW Lot No.: H2G120173

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: G Guthrie DATE: 7/12/02

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 : pm DATE: 7/15/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CC3006	CN	4b	per V. Graves 7/15/02
			sample not collected -
			on COC by mistake

☒ Client informed on 7/12/02 by phone. Person contacted: V. Graves.

☒ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: pm Date: 7/15/02

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): _____

_____

_____

_____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2G120173

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA	
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?		X		not noted
d. Is cooler temperature & custody seal condition noted on COC?		X		on copy rec'd

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: ym DATE: 7/15/02

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: FB07 11 02STL C

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior/330-497-9396
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266896

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
CC 3005	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC 3005	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC3005 MS	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC3005 MS	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005 MS	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		
CC3005 MSD	WATER	7/11/02 1115	1 - HDPE	1000 mL	None except cool to 4C	Alkalinity by E310.1, Chloride by E325.2, Nitrate by E353.2, Sulfate by E375.4, Total Dissolved Solids by E160.1, Total Suspended Solids by E160.2, Turbidity by 180.1		
CC3005 MSD	WATER	7/11/02 1115	3 - VIAL	40 mL	cool/H2SO4	Total Organic Carbon by SW9060		
CC 3005 MSD	WATER	7/11/02 1115	1 - HDPE	250 mL	cool/HNO3	Hardness by 200.7		

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: X

Level of QC Required:

Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation Date: 7/11/02 Time: 1800
1. Received by: Jen Nottingham Date: 7/12/02 Time: 9:45
2. Relinquished by: Date: Time:
2. Received by: Date: Time:
3. Relinquished by: Date: Time:
2. Received by: Date: Time:

Comments:

104

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: H2G130120

Client: IT Project: _____ Quote#: _____

Cooler Received on: 7-13-02 Opened on: 7-13-02 by: Ann Sanders (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 1 Location overhead
   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 2.6 °C (see back of form for multiple coolers/temp)
   METHOD: Temp Vial ☑ Coolant & Sample ☐ Against Bottles ☐ IR ☐ ICE/H_2O Slurry ☐
   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 # 102401-NaOH: Hydrochloric Acid Lot # 041400-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)		

Received 5/6

SET 2

Southeast ACCUTEST.

05/02/02

Technical Report for

IT Corporation

Plum Brook Ordnance WKS.

825635

Accutest Job Number: F12806

Report to:

IT Corporation
312 Directors Drive
Knoxville, TN 37923

ATTN: Maureen McMyler

Total number of pages in report: 552

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 approval of Accutest Laboratories.

SECTION 2

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FULL LABORATORY DATA DELIVERABLES

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3. **CASE NARRATIVE**

4. **SAMPLE RECEIPT FORM**

5. **CUSTODY DOCUMENTATION**

6. **RESULTS SUMMARY**

7. **GC/MS SUPPORT DATA (SW846- METHOD 8260)**

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7.3	Method Blank Summary	VOC.03
7.4	Blank Spike Summary	VOC.04
7.5	Matrix Spike / Matrix Spike Duplicate Summary	VOC.05
7.6	Sample Duplicate Summary	VOC.06
7.7	Instrument Performance Check (BFB)	VOC.07
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8. **GC/MS SUPPORT DATA (SW846- METHOD 8270)**

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8.3	Method Blank Summary	SVOC.03
8.4	Blank Spike Summary	SVOC.04
8.5	Matrix Spike / Matrix Spike Duplicate Summary	SVOC.05
8.6	Sample Duplicate Summary	SVOC.06
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8.8	Initial Calibration Summary	SVOC.08
8.9	Continuing Calibration Summary	SVOC.09
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9.3	GC Surrogate Retention Time Summary	SGC.03
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9.7	Sample Duplicate Summary	SGC.07

9.8	Initial Calibration Summary	SGC.08
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9.10	Sequence Log and Bench Sheets	SGC.10
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10. Metals SUPPORT DATA

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10.6	Method Blank Summary	MET.06
10.7	Matrix Spike/Duplicate Results Summary	MET.07
10.8	Spike Blank/Lab Control Sample Summary	MET.08
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SECTION 3

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: IT Corporation
Site: Plum Brook Ordinance WKS.
Report Date: April 25, 2002
Job Number: F12806

3 samples were collected on April 03 and 04, 2002 and received on April 05, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.
All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

Metals: SW-846, 6010B

- The MS/MSD associated with analytical batch number MP4332 had recoveries for Sodium below acceptance limits. It was found that the spike amount was low relative to the sample amount. The Blank Spike found these metals was within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.
- The Serial Dilution associated with analytical batch number MP4332 had several RPDs above acceptance limits. All RPDs were found to be acceptable either due to low duplicate and sample concentrations or possible matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number MP4329 had RPDs above acceptance limits. It was found that the spike amount was low relative to the sample amount. The Blank Spike found these metals was within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.
- The Serial Dilution associated with analytical batch number MP4329 had several RPDs above acceptance limits. All RPDs were found to be acceptable either due to low duplicate and sample concentrations or possible matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: April 25, 2002

Sue O. Bell, Project Manager (signature on file)

0005

SECTION 4

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F12806

Client/Project: IT

Date/Time Received: 4/5/02 2:00 Total Number of Coolers 2

Method of Delivery: (FedEx) Greyhound UPS Pickup Delivery Other

Air Bill Number: 830345878957

Cooler Temperatures: 1.2

Custody Seals Intact?	(YES)	NO	
Trip Blank Intact?	YES	NO	(NA)
Chain of Custody Provided?	(YES)	NO	
Chain of Custody Match Bottles?	(YES)	NO	
Sample Labels Present?	(YES)	NO	
Are All Bottles Unbroken?	(YES)	NO	
Proper Preservative?	(YES)	NO	
Correct Containers Used?	(YES)	NO	
Sufficient Sample Volume?	(YES)	NO	
Number of Encores	—		

Comments:

CB5007 - 1 bottle broken in lab while unpacking
Received two copies of pg 1 of COC. (Don't have pg 2)

Signature: Miranda Dupont Date: 4-5-02

Rev. 08/28/01 SI

SECTION 5

F128UW

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04042002

0009

Project Number: 825635
Samples Shipment Date: 04 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: Accutest Laboratories
Sample Coordinator: Don Dill
Lab Contact: Sue Bell
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/830345878957

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation)	Date: 4/4/02 Time: 1800	1. Received By (Signature/Affiliation) Miranda Dupont	Date: 4-5-02 Time: 200
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3006	PBOW-02-GW-PB-BED-MW25-CB3006-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3006	PBOW-02-GW-PB-BED-MW25-CB3006-14-14	03 APR 2002	11:20	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3006	PBOW-02-GW-PB-BED-MW25-CB3006-14-14	03 APR 2002	11:20	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3006	PBOW-02-GW-PB-BED-MW25-CB3006-14-14	03 APR 2002	11:20	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3006	PBOW-02-GW-PB-BED-MW25-CB3006-14-14	03 APR 2002	11:20	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB3011	PB-BED-MW22-GW-CB3011-FS	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		

1.2

0010

IT CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No. 04042002

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB5011	PB-BED-MW72-GW-CB5011-FS	04 APR 2002	10:25	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB5011	PB-BED-MW72-GW-CB5011-FS	04 APR 2002	10:25	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB5011	PB-BED-MW72-GW-CB5011-FS	04 APR 2002	10:25	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB5011	PB-BED-MW72-GW-CB5011-FS	04 APR 2002	10:25	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5007	PB-BED-MW72-GW-CB5007-FB	04 APR 2002	16:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

CB5007

SECTION 6

Sample Summary

IT Corporation

Job No: F12806

Plum Brook Ordnance WKS.
Project No: 825635

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12806-1	04/03/02	11:20 MD	04/05/02	AQ	Ground Water	CB3006
F12806-2	04/04/02	10:25 MD	04/05/02	AQ	Ground Water	CB3011
F12806-3	04/04/02	00:00 MD	04/05/02	AQ	Trip Blank Water	CB5007
F12806-1A	04/03/02	11:20 MD	04/05/02	AQ	Groundwater Filtered	CB3006
F12806-2A	04/04/02	10:25 MD	04/05/02	AQ	Groundwater Filtered	CB3011

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0009330.D	1	04/15/02	JG	n/a	n/a	VC423
Run #2							

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009351.D	1	04/11/02	ME	04/10/02	OP4948	SW518
Run #2							

ABN TCL List

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		20-125%
4165-62-2	Phenol-d5	27%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	63%		46-125%
321-60-8	2-Fluorobiphenyl	63%		46-125%
1718-51-0	Terphenyl-d14	85%		49-126%

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG002840.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146
Run #2							

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	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	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	69%		58-131%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1	**Date Sampled:**	04/03/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Barium	438	200	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Calcium	175000	1000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Magnesium	68700	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Manganese	66.7	15	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/09/02	04/10/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Potassium	21100	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Sodium	218000	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Zinc	71.3	20	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0009331.D	1	04/15/02	JG	n/a	n/a	VC423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	0.60	1.0	ug/l	J
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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	0.52	2.0	ug/l	J
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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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	0.85	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	2.8	6.0	ug/l	J

ND = Not detected
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009354.D	1	04/11/02	ME	04/10/02	OP4948	SW518
Run #2							

ABN TCL List

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		20-125%
4165-62-2	Phenol-d5	30%		10-125%
118-79-6	2,4,6-Tribromophenol	87%		35-140%
4165-60-0	Nitrobenzene-d5	70%		46-125%
321-60-8	2-Fluorobiphenyl	74%		46-125%
1718-51-0	Terphenyl-d14	82%		49-126%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG002841.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146
Run #2							

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	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	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	65%		58-131%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2	**Date Sampled:**	04/04/02
Matrix:	AQ - Ground Water	**Date Received:**	04/05/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Barium	606	200	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Calcium	121000	1000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Magnesium	34900	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Manganese	45.2	15	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/09/02	04/10/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Potassium	5340	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Sodium	16900	5000	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/10/02	04/11/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB5007		
Lab Sample ID:	F12806-3	**Date Sampled:**	04/04/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0009323.D	1	04/12/02	JG	n/a	n/a	VC422
Run #2							

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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	

0025

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB5007		
Lab Sample ID:	F12806-3	**Date Sampled:**	04/04/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3006		
Lab Sample ID:	F12806-1A	**Date Sampled:**	04/03/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Barium	434	200	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Calcium	165000	1000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Magnesium	65900	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Manganese	59.9	15	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/09/02	04/10/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Potassium	20700	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Sodium	203000	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3011		
Lab Sample ID:	F12806-2A	**Date Sampled:**	04/04/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Barium	596	200	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Calcium	114000	1000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Magnesium	33700	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Manganese	39.3	15	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/09/02	04/10/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Potassium	5480	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Sodium	16400	5000	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/11/02	04/11/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

SECTION 7

SURROGATE RECOVERIES SUMMARY

VOC.02

Volatile Surrogate Recovery Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12806-1	C0009330.D	103.0	103.0	96.0	100.0
F12806-2	C0009331.D	103.0	103.0	96.0	100.0
F12806-3	C0009323.D	103.0	105.0	98.0	100.0
F12787-1MS	C0009316.D	103.0	104.0	98.0	99.0
F12787-1MSD	C0009317.D	104.0	104.0	98.0	99.0
F12811-1MS	C0009336.D	104.0	102.0	95.0	99.0
F12811-1MSD	C0009337.D	104.0	103.0	95.0	99.0
VC422-BS	C0009308.D	102.0	100.0	99.0	98.0
VC422-MB	C0009309.D	100.0	101.0	99.0	99.0
VC423-BS	C0009328.D	104.0	106.0	96.0	98.0
VC423-MB	C0009329.D	103.0	103.0	95.0	100.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

METHOD BLANK SUMMARY

VOC.03

Method Blank Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC422-MB	C0009309.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC422-MB	C0009309.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

Method Blank Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC423-MB	C0009329.D	1	04/15/02	JG	n/a	n/a	VC423

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-1, F12806-2

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC423-MB	C0009329.D	1	04/15/02	JG	n/a	n/a	VC423

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-1, F12806-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	80-120%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	100%	80-120%

BLANK SPIKE SUMMARY

VOC.04

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC422-BS	C0009308.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	67-125
71-43-2	Benzene	25	22.3	89	75-125
75-27-4	Bromodichloromethane	25	22.6	90	75-125
75-25-2	Bromoform	25	21.4	86	72-125
108-90-7	Chlorobenzene	25	21.8	87	75-125
75-00-3	Chloroethane	25	23.9	96	58-136
67-66-3	Chloroform	25	22.8	91	75-125
75-15-0	Carbon disulfide	125	114	91	48-142
56-23-5	Carbon tetrachloride	25	23.4	94	75-136
75-34-3	1,1-Dichloroethane	25	21.6	86	75-125
75-35-4	1,1-Dichloroethylene	25	21.7	87	67-138
107-06-2	1,2-Dichloroethane	25	20.9	84	75-125
78-87-5	1,2-Dichloropropane	25	23.0	92	75-125
124-48-1	Dibromochloromethane	25	22.1	88	75-125
156-59-2	cis-1,2-Dichloroethylene	25	22.5	90	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.0	84	75-125
156-60-5	trans-1,2-Dichloroethylene	25	20.5	82	73-125
10061-02-6	trans-1,3-Dichloropropene	25	20.9	84	75-125
100-41-4	Ethylbenzene	25	22.0	88	68-135
591-78-6	2-Hexanone	125	107	86	68-125
108-10-1	4-Methyl-2-pentanone	125	108	86	75-125
74-83-9	Methyl bromide	25	22.9	92	59-146
74-87-3	Methyl chloride	25	24.5	98	50-142
75-09-2	Methylene chloride	25	20.7	83	69-125
78-93-3	Methyl ethyl ketone	125	107	86	70-125
100-42-5	Styrene	25	22.5	90	75-125
71-55-6	1,1,1-Trichloroethane	25	23.1	92	75-132
79-34-5	1,1,2,2-Tetrachloroethane	25	20.8	83	75-125
79-00-5	1,1,2-Trichloroethane	25	21.1	84	75-125
127-18-4	Tetrachloroethylene	25	22.9	92	75-126
108-88-3	Toluene	25	21.9	88	75-125
79-01-6	Trichloroethylene	25	22.0	88	75-125
75-01-4	Vinyl chloride	25	25.0	100	60-147
1330-20-7	Xylene (total)	75	67.0	89	75-125

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC422-BS	C0009308.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

VOC.05

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12787-1MS	C0009316.D	1	04/12/02	JG	n/a	n/a	VC422
F12787-1MSD	C0009317.D	1	04/12/02	JG	n/a	n/a	VC422
F12787-1	C0009310.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

CAS No.	Compound	F12787-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	109	87	107	86	2	61-125/15
71-43-2	Benzene	ND		25	22.2	89	21.7	87	2	75-125/15
75-27-4	Bromodichloromethane	ND		25	22.3	89	22.1	88	1	75-125/15
75-25-2	Bromoform	ND		25	20.4	82	20.0	80	2	66-125/15
108-90-7	Chlorobenzene	ND		25	21.7	87	21.1	84	3	75-125/15
75-00-3	Chloroethane	ND		25	24.7	99	24.0	96	3	53-125/15
67-66-3	Chloroform	ND		25	22.8	91	22.3	89	2	75-125/15
75-15-0	Carbon disulfide	ND		125	114	91	109	87	4	51-138/15
56-23-5	Carbon tetrachloride	ND		25	23.9	96	23.2	93	3	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	21.9	88	21.2	85	3	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	21.5	86	20.9	84	3	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	21.3	85	20.8	83	2	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	22.8	91	22.1	88	3	75-125/15
124-48-1	Dibromochloromethane	ND		25	21.9	88	21.4	86	2	75-125/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.3	89	22.0	88	1	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	20.6	82	20.2	81	2	71-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	20.8	83	20.2	81	3	73-125/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	20.1	80	19.8	79	2	62-125/15
100-41-4	Ethylbenzene	ND		25	21.9	88	21.2	85	3	75-125/15
591-78-6	2-Hexanone	ND		125	109	87	106	85	3	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	110	88	107	86	3	75-125/15
74-83-9	Methyl bromide	ND		25	23.6	94	23.1	92	2	67-146/15
74-87-3	Methyl chloride	ND		25	25.5	102	24.7	99	3	47-160/15
75-09-2	Methylene chloride	ND		25	21.3	85	20.4	82	4	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	108	86	105	84	3	70-125/15
100-42-5	Styrene	ND		25	22.7	91	22.2	89	2	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	23.3	93	23.0	92	1	75-131/15
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.4	82	20.2	81	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	21.0	84	20.6	82	2	75-125/15
127-18-4	Tetrachloroethylene	ND		25	22.6	90	21.6	86	5	75-125/15
108-88-3	Toluene	ND		25	21.8	87	21.1	84	3	75-125/15
79-01-6	Trichloroethylene	ND		25	22.3	89	21.6	86	3	75-125/15
75-01-4	Vinyl chloride	ND		25	26.1	104	25.3	101	3	52-169/15
1330-20-7	Xylene (total)	ND		75	67.4	90	65.3	87	3	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12787-1MS	C0009316.D	1	04/12/02	JG	n/a	n/a	VC422
F12787-1MSD	C0009317.D	1	04/12/02	JG	n/a	n/a	VC422
F12787-1	C0009310.D	1	04/12/02	JG	n/a	n/a	VC422

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-3

CAS No.	Surrogate Recoveries	MS	MSD	F12787-1	Limits
1868-53-7	Dibromofluoromethane	103%	104%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	102%	80-120%
2037-26-5	Toluene-D8	98%	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	99%	99%	98%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12811-1MS	C0009336.D	1	04/15/02	JG	n/a	n/a	VC423
F12811-1MSD	C0009337.D	1	04/15/02	JG	n/a	n/a	VC423
F12811-1	C0009332.D	1	04/15/02	JG	n/a	n/a	VC423

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-1, F12806-2

CAS No.	Compound	F12811-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	105	84	106	85	1	61-125/15
71-43-2	Benzene	ND		25	23.8	95	23.1	92	3	75-125/15
75-27-4	Bromodichloromethane	ND		25	23.0	92	22.9	92	0	75-125/15
75-25-2	Bromoform	ND		25	19.4	78	19.9	80	3	66-125/15
108-90-7	Chlorobenzene	ND		25	21.3	85	21.2	85	0	75-125/15
75-00-3	Chloroethane	ND		25	26.4	106	26.2	105	1	53-125/15
67-66-3	Chloroform	ND		25	23.7	95	23.6	94	0	75-125/15
75-15-0	Carbon disulfide	ND		125	120	96	118	94	2	51-138/15
56-23-5	Carbon tetrachloride	ND		25	24.4	98	24.1	96	1	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	22.9	92	22.5	90	2	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	22.3	89	21.9	88	2	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	21.7	87	21.6	86	0	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	24.1	96	23.7	95	2	75-125/15
124-48-1	Dibromochloromethane	ND		25	21.5	86	21.7	87	1	75-125/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.6	94	23.1	92	2	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.3	85	21.4	86	0	71-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	21.7	87	21.5	86	1	73-125/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	19.4	78	19.7	79	2	62-125/15
100-41-4	Ethylbenzene	ND		25	21.8	87	21.3	85	2	75-125/15
591-78-6	2-Hexanone	ND		125	111	89	111	89	0	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	116	93	117	94	1	75-125/15
74-83-9	Methyl bromide	ND		25	25.3	101	24.9	100	2	67-146/15
74-87-3	Methyl chloride	ND		25	29.3	117	28.4	114	3	47-160/15
75-09-2	Methylene chloride	ND		25	22.4	90	22.1	88	1	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	110	88	112	90	2	70-125/15
100-42-5	Styrene	ND		25	22.2	89	22.1	88	0	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	24.4	98	24.1	96	1	75-131/15
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.1	80	20.4	82	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	20.9	84	20.7	83	1	75-125/15
127-18-4	Tetrachloroethylene	ND		25	22.2	89	21.5	86	3	75-125/15
108-88-3	Toluene	ND		25	21.5	86	21.4	86	0	75-125/15
79-01-6	Trichloroethylene	ND		25	22.9	92	22.8	91	0	75-125/15
75-01-4	Vinyl chloride	ND		25	27.9	112	28.3	113	1	52-169/15
1330-20-7	Xylene (total)	ND		75	66.1	88	65.9	88	0	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12811-1MS	C0009336.D	1	04/15/02	JG	n/a	n/a	VC423
F12811-1MSD	C0009337.D	1	04/15/02	JG	n/a	n/a	VC423
F12811-1	C0009332.D	1	04/15/02	JG	n/a	n/a	VC423

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12806-1, F12806-2

CAS No.	Surrogate Recoveries	MS	MSD	F12811-1	Limits
1868-53-7	Dibromofluoromethane	104%	104%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	101%	80-120%
2037-26-5	Toluene-D8	95%	95%	96%	80-120%
460-00-4	4-Bromofluorobenzene	99%	99%	98%	80-120%

INSTRUMENT PERFORMANCE CHECK (BFB)

VOC.07

0095

Instrument Performance Check (BFB)

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VC422-BFB	**Injection Date:**	04/12/02
Lab File ID:	C0009305.D	**Injection Time:**	09:43
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9775	16.1		Pass
75	30.0 - 60.0% of mass 95	27128	44.6		Pass
95	Base peak, 100% relative abundance	60824	100.0		Pass
96	5.0 - 9.0% of mass 95	3873	6.4		Pass
173	Less than 2.0% of mass 174	351	0.58	(0.59) [a]	Pass
174	50.0 - 100.0% of mass 95	59509	97.8		Pass
175	5.0 - 9.0% of mass 174	4291	7.1	(7.2) [a]	Pass
176	95.0 - 101.0% of mass 174	59701	98.2	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4062	6.7	(6.8) [b]	Pass

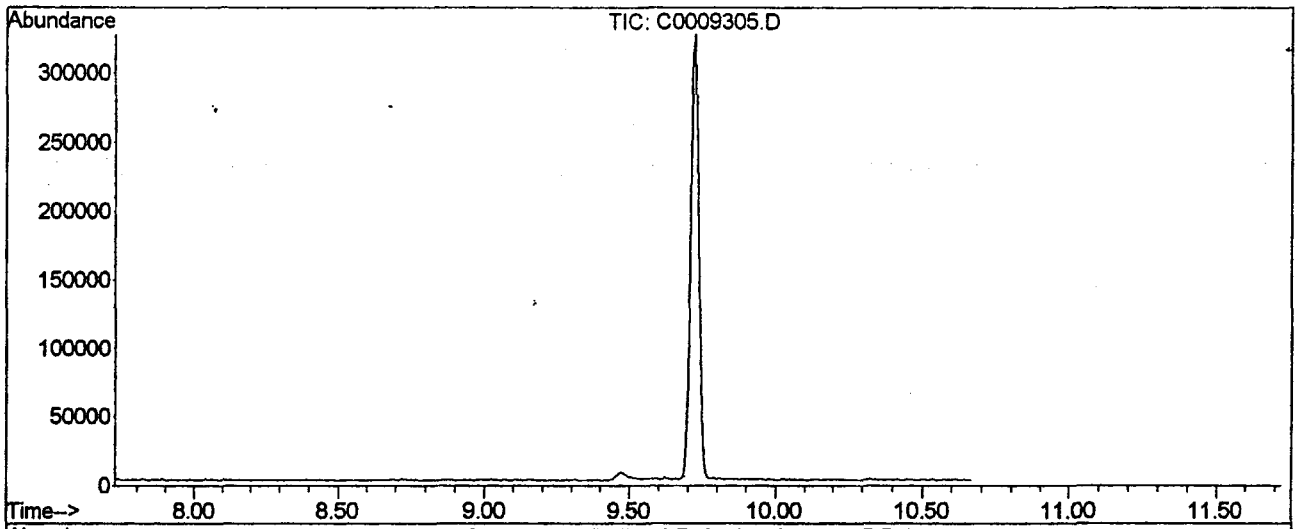
(a) Value is % of mass 174
(b) Value is % of mass 176

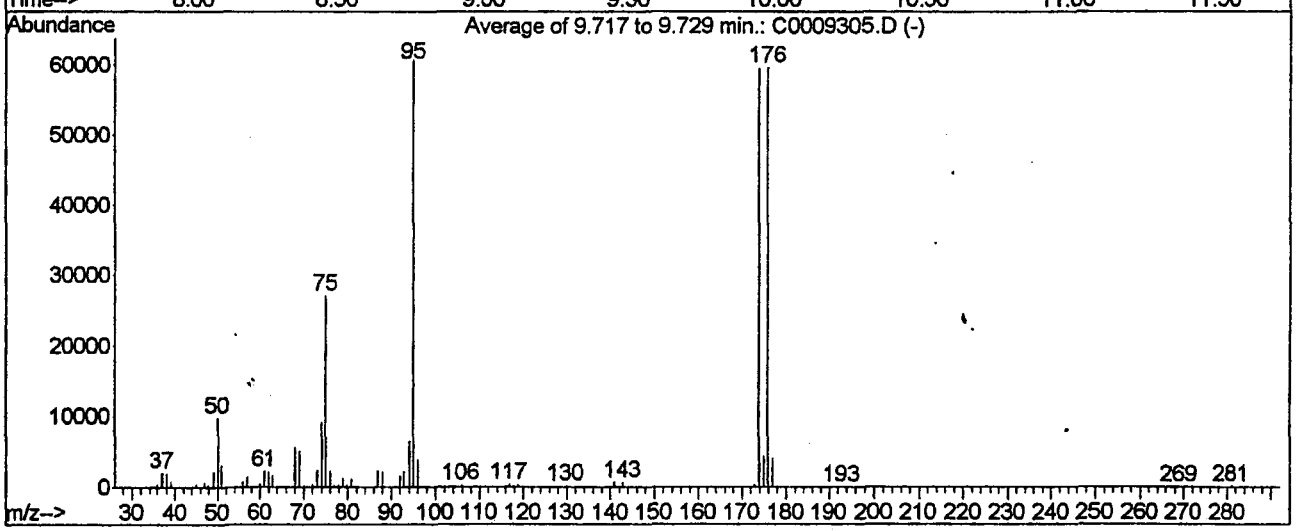
This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC422-CC422	C0009306.D	04/12/02	10:13	00:30	Continuing cal 40PPB
VC422-BS	C0009308.D	04/12/02	11:21	01:38	Blank Spike
VC422-MB	C0009309.D	04/12/02	11:51	02:08	Method Blank
F12787-1	C0009310.D	04/12/02	12:20	02:37	(used for QC only; not part of job F12806)
ZZZZZZ	C0009311.D	04/12/02	12:50	03:07	(unrelated sample)
ZZZZZZ	C0009312.D	04/12/02	13:20	03:37	(unrelated sample)
ZZZZZZ	C0009313.D	04/12/02	13:49	04:06	(unrelated sample)
ZZZZZZ	C0009314.D	04/12/02	14:19	04:36	(unrelated sample)
ZZZZZZ	C0009315.D	04/12/02	14:48	05:05	(unrelated sample)
F12787-1MS	C0009316.D	04/12/02	15:18	05:35	Matrix Spike
F12787-1MSD	C0009317.D	04/12/02	15:47	06:04	Matrix Spike Duplicate
ZZZZZZ	C0009321.D	04/12/02	17:53	08:10	(unrelated sample)
ZZZZZZ	C0009322.D	04/12/02	18:23	08:40	(unrelated sample)
F12806-3	C0009323.D	04/12/02	18:52	09:09	CB5007

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\041202\C0009305.D Vial: 100
Acq On : 12 Apr 2002 9:43 am Operator: JuanG
Sample : BFB tune Inst : MSVOA5
Misc : ms1431,vc422,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p
Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B





AutoFind: Scans 598, 599, 600; Background Corrected with Scan 589

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	9775	PASS
75	95	30	60	44.6	27128	PASS
95	95	100	100	100.0	60824	PASS
96	95	5	9	6.4	3873	PASS
173	174	0.00	2	0.6	351	PASS
174	95	50	100	97.8	59509	PASS
175	174	5	9	7.2	4291	PASS
176	174	95	101	100.3	59701	PASS
177	176	5	9	6.8	4062	PASS

Instrument Performance Check (BFB)

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VC423-BFB	**Injection Date:**	04/15/02
Lab File ID:	C0009326.D	**Injection Time:**	09:16
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17514	16.8		Pass
75	30.0 - 60.0% of mass 95	46258	44.5		Pass
95	Base peak, 100% relative abundance	103952	100.0		Pass
96	5.0 - 9.0% of mass 95	7239	7.0		Pass
173	Less than 2.0% of mass 174	556	0.53	(0.58) [a]	Pass
174	50.0 - 100.0% of mass 95	95813	92.2		Pass
175	5.0 - 9.0% of mass 174	7073	6.8	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	95997	92.3	(100.2) [a]	Pass
177	5.0 - 9.0% of mass 176	6631	6.4	(6.9) [b]	Pass

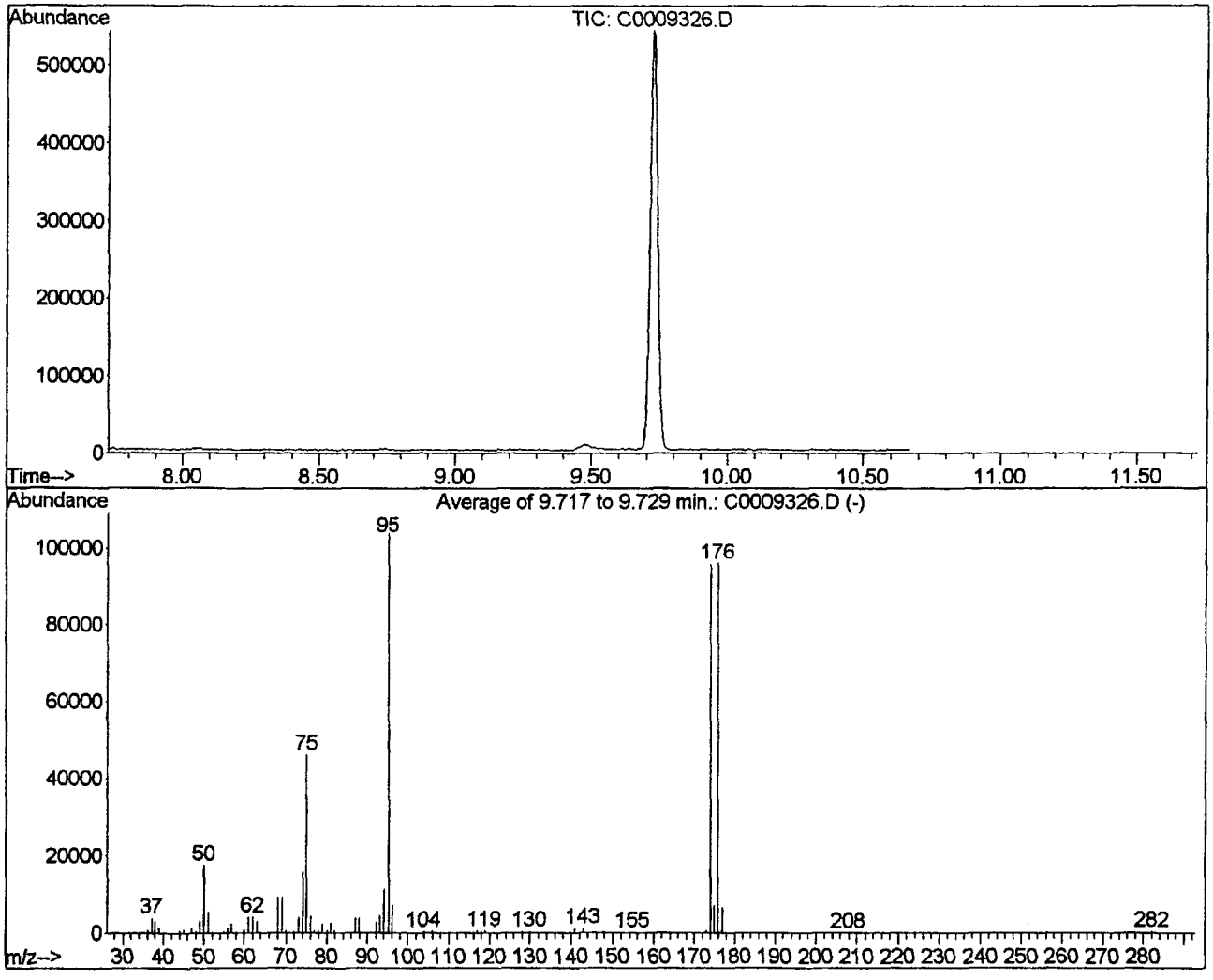
(a) Value is % of mass 174
(b) Value is % of mass 176

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
VC423-CC422	C0009327.D	04/15/02	09:45	00:29	Continuing cal 40PPB
VC423-BS	C0009328.D	04/15/02	10:14	00:58	Blank Spike
VC423-MB	C0009329.D	04/15/02	10:44	01:28	Method Blank
F12806-1	C0009330.D	04/15/02	11:20	02:04	CB3006
F12806-2	C0009331.D	04/15/02	11:49	02:33	CB3011
F12811-1	C0009332.D	04/15/02	12:19	03:03	(used for QC only; not part of job F12806)
ZZZZZZ	C0009333.D	04/15/02	12:48	03:32	(unrelated sample)
ZZZZZZ	C0009334.D	04/15/02	13:18	04:02	(unrelated sample)
ZZZZZZ	C0009335.D	04/15/02	13:48	04:32	(unrelated sample)
F12811-1MS	C0009336.D	04/15/02	14:17	05:01	Matrix Spike
F12811-1MSD	C0009337.D	04/15/02	14:47	05:31	Matrix Spike Duplicate
ZZZZZZ	C0009338.D	04/15/02	15:19	06:03	(unrelated sample)
ZZZZZZ	C0009339.D	04/15/02	15:49	06:33	(unrelated sample)
ZZZZZZ	C0009340.D	04/15/02	16:21	07:05	(unrelated sample)
ZZZZZZ	C0009341.D	04/15/02	16:50	07:34	(unrelated sample)
ZZZZZZ	C0009342.D	04/15/02	17:20	08:04	(unrelated sample)
ZZZZZZ	C0009343.D	04/15/02	17:49	08:33	(unrelated sample)
ZZZZZZ	C0009344.D	04/15/02	18:19	09:03	(unrelated sample)
ZZZZZZ	C0009345.D	04/15/02	18:48	09:32	(unrelated sample)
ZZZZZZ	C0009346.D	04/15/02	19:21	10:05	(unrelated sample)
ZZZZZZ	C0009347.D	04/15/02	19:53	10:37	(unrelated sample)
ZZZZZZ	C0009348.D	04/15/02	20:22	11:06	(unrelated sample)

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\041502\C0009326.D Vial: 100
Acq On : 15 Apr 2002 9:16 am Operator: JuanG
Sample : BFB tune Inst : MSVOA5
Misc : ms1431,vc422,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title :



AutoFind: Scans 598, 599, 600; Background Corrected with Scan 589

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	17514	PASS
75	95	30	60	44.5	46258	PASS
95	95	100	100	100.0	103952	PASS
96	95	5	9	7.0	7239	PASS
173	174	0.00	2	0.6	556	PASS
174	95	50	100	92.2	95813	PASS
175	174	5	9	7.4	7073	PASS
176	174	95	101	100.2	95997	PASS
177	176	5	9	6.9	6631	PASS

Instrument Performance Check (BFB)

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VC422-BFB	**Injection Date:**	04/11/02
Lab File ID:	C0009288.D	**Injection Time:**	14:15
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27565	16.2		Pass
75	30.0 - 60.0% of mass 95	76365	45.0		Pass
95	Base peak, 100% relative abundance	169706	100.0		Pass
96	5.0 - 9.0% of mass 95	12312	7.3		Pass
173	Less than 2.0% of mass 174	444	0.26	(0.27) [a]	Pass
174	50.0 - 100.0% of mass 95	166336	98.0		Pass
175	5.0 - 9.0% of mass 174	12200	7.2	(7.3) [a]	Pass
176	95.0 - 101.0% of mass 174	166869	98.3	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	10093	5.9	(6.0) [b]	Pass

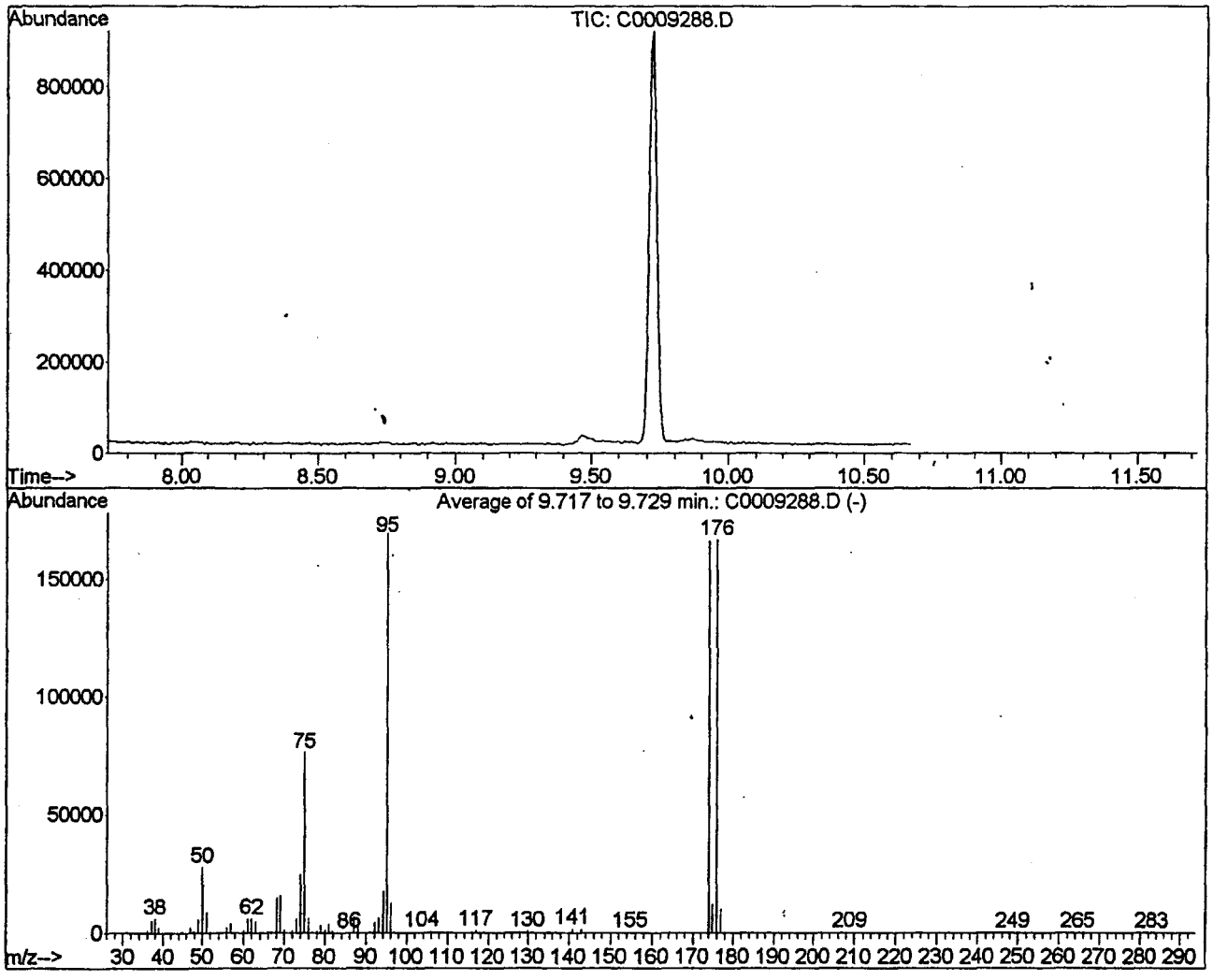
(a) Value is % of mass 174
(b) Value is % of mass 176

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
VC422-IC422	C0009290.D	04/11/02	16:59	02:44	Initial cal 1PPB
VC422-IC422	C0009291.D	04/11/02	17:31	03:16	Initial cal 5PPB
VC422-IC422	C0009292.D	04/11/02	18:00	03:45	Initial cal 20PPB
VC422-ICC422	C0009293.D	04/11/02	18:30	04:15	Initial cal 40PPB
VC422-IC422	C0009294.D	04/11/02	19:00	04:45	Initial cal 70PPB
VC422-IC422	C0009295.D	04/11/02	19:29	05:14	Initial cal 100PPB

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\041102\C0009288.D Vial: 100
Acq On : 11 Apr 2002 2:15 pm Operator: JuanG
Sample : BFB tune Inst : MSVOA5
Misc : ms1431,vc422,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p
Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B



AutoFind: Scans 598, 599, 600; Background Corrected with Scan 588

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	27565	PASS
75	95	30	60	45.0	76365	PASS
95	95	100	100	100.0	169706	PASS
96	95	5	9	7.3	12312	PASS
173	174	0.00	2	0.3	444	PASS
174	95	50	100	98.0	166336	PASS
175	174	5	9	7.3	12200	PASS
176	174	95	101	100.3	166869	PASS
177	176	5	9	6.0	10093	PASS

INITIAL CALIBRATION

VOC.08

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 2002
Response via : Initial Calibration

JRB 4/12/02
RSD > 15%
Qual by
cmc

Calibration Files
1 =C0009290.D 2 =C0009291.D 3 =C0009292.D
4 =C0009293.D 5 =C0009294.D 6 =C0009295.D

		Compound	1	2	3	4	5	6	Avg	%RS
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet	0.208	0.242	0.264	0.250	0.241	0.229	0.239	7.91
3)	P	Chloromethane	0.356	0.320	0.323	0.305	0.291	0.279	0.312	8.76
4)	C	Vinyl Chloride	0.286	0.285	0.283	0.274	0.267	0.261	0.276	3.72
5)		Bromomethane		0.225	0.204	0.193	0.190	0.184	0.199	8.11
6)		Chloroethane	0.166	0.158	0.154	0.148	0.145	0.144	0.152	5.60
7)		Trichlorofluorometh	0.358	0.408	0.448	0.440	0.440	0.443	0.423	8.22
8)		Acrolein	0.020	0.016	0.016	0.016	0.016	0.017	0.017	10.61
9)	C	1,1-Dichloroethene	0.446	0.450	0.442	0.427	0.419	0.415	0.433	3.44
10)		Freon 113	0.294	0.297	0.296	0.278	0.269	0.260	0.282	5.51
11)		Acetone		0.077	0.073	0.070	0.066	0.065	0.070	7.13
12)		Iodomethane	0.405	0.417	0.462	0.480	0.467	0.464	0.449	6.79
13)		Methyl Acetate	0.192	0.184	0.175	0.167	0.160	0.156	0.172	8.03
14)		Carbon Disulfide	1.043	0.986	0.930	0.884	0.854	0.836	0.922	8.72
15)		Hexane	0.291	0.292	0.275	0.260	0.257	0.250	0.271	6.72
16)		Methylene Chloride		0.440	0.389	0.365	0.350	0.351	0.379	9.97
17)		Tert-Butyl Alcohol	0.021	0.020	0.021	0.021	0.019	0.020	0.021	3.11
18)		trans-1,2-Dichloroe	0.397	0.394	0.376	0.363	0.359	0.361	0.375	4.53
19)		Acrylonitrile	0.079	0.077	0.075	0.073	0.071	0.070	0.074	4.81
20)		Methyl Tert Butyl E	0.779	0.748	0.726	0.711	0.703	0.701	0.728	4.17
21)	P	1,1-Dichloroethane	0.515	0.494	0.466	0.445	0.427	0.424	0.462	8.01
22)		Vinyl acetate	0.458	0.456	0.442	0.424	0.398	0.398	0.429	6.28
23)		Di-isopropyl ether	0.962	0.935	0.873	0.824	0.782	0.761	0.856	9.54
24)		ETBE	0.764	0.804	0.806	0.796	0.778	0.789	0.789	2.05
25)		2,2-Dichloropropane	0.250	0.250	0.235	0.233	0.228	0.226	0.237	4.49
26)		cis-1,2-Dichloroeth	0.327	0.320	0.306	0.289	0.281	0.275	0.300	7.11
27)		2-Butanone	0.127	0.113	0.113	0.106	0.101	0.101	0.110	9.13
28)		Bromochloromethane	0.170	0.169	0.160	0.151	0.147	0.147	0.157	6.76
29)	C	Chloroform	0.549	0.548	0.521	0.498	0.492	0.490	0.516	5.32
30)		Tetrahydrofuran		0.069	0.068	0.065	0.063	0.063	0.066	4.16
31)		1,1,1-Trichloroetha	0.471	0.465	0.453	0.444	0.435	0.437	0.451	3.35
32)		Cyclohexane	0.429	0.419	0.413	0.390	0.386	0.379	0.403	5.03
33)	S	Dibromofluoromethan	0.279	0.283	0.284	0.284	0.279	0.278	0.281	1.01
34)		1,1-Dichloropropene	0.377	0.367	0.355	0.344	0.336	0.334	0.352	4.90
35)		Carbon Tetrachlorid	0.387	0.390	0.387	0.395	0.401	0.406	0.394	2.03
36)	S	1,2-Dichloroethane-	0.308	0.312	0.308	0.306	0.308	0.307	0.308	0.62
37)		Benzene	1.196	1.126	1.055	0.991	0.944	0.925	1.040	10.24
38)		TAME	0.747	0.708	0.709	0.699	0.694	0.701	0.710	2.67
39)		1,2-Dichloroethane	0.528	0.454	0.418	0.402	0.395	0.399	0.433	11.90
40)		Trichloroethene	0.340	0.324	0.299	0.292	0.283	0.283	0.303	7.74
41)		Methylcyclohexane	0.440	0.396	0.368	0.353	0.343	0.332	0.372	10.79
42)	C	1,2-Dichloropropane	0.282	0.287	0.266	0.257	0.245	0.242	0.263	7.14

Average % RSD = 6.2473

(#) = Out of Range

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 2002
Response via : Initial Calibration

Calibration Files
1 =C0009290.D 2 =C0009291.D 3 =C0009292.D
4 =C0009293.D 5 =C0009294.D 6 =C0009295.D

		Compound	1	2	3	4	5	6	Avg	%RS
43)		Dibromomethane	0.191	0.196	0.186	0.180	0.177	0.177	0.185	4.25
44)		1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	7.21
45)		Bromodichloromethan	0.382	0.407	0.397	0.391	0.389	0.392	0.393	2.14
46)	r²=0.998	2-Nitropropane	0.036	0.039	0.049	0.056	0.059	0.061	0.050	20.77
47)	JRo	2-Chloroethyl vinyl	0.138	0.144	0.148	0.143	0.136	0.132	0.140	4.16
48)	4/12/2	4-Methyl-2-pentanon	0.274	0.263	0.250	0.236	0.225	0.218	0.244	9.01
49)		cis-1,3-Dichloropro	0.445	0.447	0.443	0.442	0.437	0.441	0.442	0.79
50)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
51)	S	Toluene-d8	1.115	1.107	1.111	1.103	1.109	1.112	1.109	0.37
52)	C	Toluene	1.496	1.399	1.343	1.275	1.239	1.231	1.330	7.79
53)		trans-1,3-Dichlorop	0.418	0.442	0.455	0.466	0.465	0.472	0.453	4.49
54)		1,1,2-Trichloroetha	0.262	0.254	0.239	0.228	0.223	0.224	0.238	6.87
55)		Tetrachloroethene	0.462	0.433	0.410	0.400	0.383	0.384	0.412	7.48
56)		2-hexanone	0.207	0.197	0.197	0.186	0.177	0.171	0.189	7.18
57)		1,3-Dichloropropane	0.539	0.499	0.472	0.452	0.441	0.436	0.473	8.38
58)		Dibromochloromethan	0.321	0.338	0.348	0.351	0.354	0.365	0.346	4.37
59)		1,2-Dibromoethane	0.353	0.327	0.333	0.318	0.312	0.314	0.326	4.71
60)		1-Chlorohexane	0.456	0.428	0.420	0.404	0.398	0.392	0.416	5.73
61)	P	Chlorobenzene	1.064	1.013	0.966	0.922	0.897	0.891	0.959	7.20
62)		1,1,1,2-Tetrachloro	0.353	0.346	0.358	0.347	0.343	0.346	0.349	1.58
63)	C	Ethylbenzene	1.736	1.621	1.573	1.499	1.450	1.431	1.552	7.45
64)		m,p-Xylene	1.368	1.289	1.241	1.184	1.142	1.128	1.225	7.55
65)		o-Xylene	1.453	1.372	1.332	1.253	1.197	1.176	1.297	8.29
66)		Styrene	1.088	1.082	1.059	1.005	0.951	0.924	1.018	6.85
67)	P	Bromoform	0.233	0.225	0.254	0.263	0.278	0.289	0.257	9.64
68)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
69)		Isopropylbenzene	2.502	2.385	2.277	2.194	2.144	2.156	2.276	6.26
70)	S	4-Bromofluorobenzen	0.804	0.809	0.803	0.814	0.819	0.827	0.813	1.18
71)		Bromobenzene	0.850	0.785	0.745	0.713	0.691	0.676	0.744	8.78
72)		Cyclohexanone	0.015	0.016	0.013	0.013	0.012	0.013	0.014	11.07
73)	P	1,1,2,2-Tetrachloro	0.613	0.606	0.577	0.566	0.552	0.557	0.578	4.44
74)	r²=0.993	trans-1,4-Dichloro-	0.073	0.073	0.096	0.112	0.126	0.139	0.103	26.36
75)	JRo	1,2,3-Trichloroprop	0.204	0.191	0.189	0.183	0.183	0.184	0.189	4.30
76)	4/12/2	n-Propylbenzene	3.072	2.929	2.760	2.646	2.556	2.518	2.747	7.95
77)		2-Chlorotoluene	2.170	2.121	1.961	1.889	1.812	1.799	1.958	8.01
78)		4-Chlorotoluene	2.098	1.962	1.864	1.804	1.770	1.772	1.878	6.91
79)		1,3,5-Trimethylbenz	2.207	2.141	2.037	1.934	1.845	1.810	1.996	8.03
80)		sec-Butylbenzene	2.662	2.565	2.389	2.276	2.218	2.173	2.380	8.26
81)		1,3-Dichlorobenzene	1.606	1.544	1.445	1.389	1.328	1.323	1.439	8.05
82)		4-Isopropyltoluene	2.243	2.209	2.090	1.977	1.900	1.858	2.046	7.84
83)		1,4-Dichlorobenzene	1.642	1.527	1.498	1.413	1.369	1.358	1.468	7.43

Average % RSD = 6.69048

(#) = Out of Range

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 2002
Response via : Initial Calibration

Calibration Files
1 =C0009290.D 2 =C0009291.D 3 =C0009292.D
4 =C0009293.D 5 =C0009294.D 6 =C0009295.D

	Compound	1	2	3	4	5	6	Avg	%RS
84)	tert-Butylbenzene	1.326	1.475	1.233	1.370	1.327	1.329	1.343	5.88
85)	n-Butylbenzene	1.997	1.997	1.861	1.793	1.716	1.667	1.839	7.59
86)	1,2-Dichlorobenzene	1.607	1.536	1.453	1.397	1.327	1.319	1.440	8.01
87)	1,2,4-Trimethylbenz	2.435	2.301	2.171	2.104	2.003	1.996	2.168	8.00
88)	1,2-Dibromo-3-Chlor	0.106	0.101	0.114	0.109	0.108	0.110	0.108	4.17
89)	1,2,4-Trichlorobenz	1.058	1.006	0.989	0.942	0.917	0.919	0.972	5.76
90)	Hexachlorobutadiene	0.477	0.459	0.419	0.396	0.387	0.389	0.421	9.14
91)	Naphthalene	2.050	1.875	1.953	1.906	1.835	1.862	1.913	4.09
92)	1,2,3-Trichlorobenz	0.912	0.876	0.868	0.829	0.806	0.813	0.851	4.85

Average % RSD = 6.6598

(#) = Out of Range

CONTINUING CALIBRATION

VOC.09

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\041502\C0009327.D Vial: 1
Acq On : 15 Apr 2002 9:45 am Operator: JuanG
Sample : CC422-40ppb Inst : MSVOA5
Misc : ms1453,vc423,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 2002
Response via : Multiple Level Calibration

JPb 4/16/02

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	167	0.00
2		Dichlorodifluoromethane	0.239	0.184	23.0#	123	0.00
3	P	Chloromethane	0.312	0.244	21.8#	134	0.01
4	C	Vinyl Chloride	0.276	0.225	18.5	137	0.00
5		Bromomethane	0.199	0.172	13.6	149	0.00
6		Chloroethane	0.152	0.129	15.1	146	0.00
7		Trichlorofluoromethane	0.423	0.418	1.2	158	0.00
8		Acrolein	0.017	0.016	5.9	170	0.00
9	C	1,1-Dichloroethene	0.433	0.375	13.4	147	0.00
10		Freon 113	0.282	0.252	10.6	151	0.00
11		Acetone	0.070	0.059	15.7	142	0.00
12		Iodomethane	0.449	0.408	9.1	142	-0.01
13		Methyl Acetate	0.172	0.140	18.6	140	0.00
14		Carbon Disulfide	0.922	0.787	14.6	148	0.00
15		Hexane	0.271	0.243	10.3	156	0.00
16		Methylene Chloride	0.379	0.317	16.4	145	0.00
17		Tert-Butyl Alcohol	0.021	0.018	14.3	146	0.00
18		trans-1,2-Dichloroethene	0.375	0.324	13.6	149	0.00
19		Acrylonitrile	0.074	0.061	17.6	140	0.00
20		Methyl Tert Butyl Ether	0.728	0.621	14.7	146	0.00
21	P	1,1-Dichloroethane	0.462	0.391	15.4	147	0.00
22		Vinyl acetate	0.429	0.365	14.9	143	0.00
23		Di-isopropyl ether	0.856	0.724	15.4	147	0.00
24		ETBE	0.789	0.687	12.9	144	0.00
25		2,2-Dichloropropane	0.237	0.228	3.8	163	0.00
26		cis-1,2-Dichloroethene	0.300	0.253	15.7	146	0.00
27		2-Butanone	0.110	0.087	20.9#	137	0.00
28		Bromochloromethane	0.157	0.131	16.6	145	0.00
29	C	Chloroform	0.516	0.445	13.8	149	0.00
30		Tetrahydrofuran	0.066	0.053	19.7	136	0.00
31		1,1,1-Trichloroethane	0.451	0.398	11.8	150	0.00
32		Cyclohexane	0.403	0.342	15.1	146	0.00
33	S	Dibromofluoromethane	0.281	0.308	-9.6	181	0.00
34		1,1-Dichloropropene	0.352	0.302	14.2	146	0.00
35		Carbon Tetrachloride	0.394	0.368	6.6	155	0.00
36	S	1,2-Dichloroethane-d4	0.308	0.345	-12.0	188	0.00
37		Benzene	1.040	0.861	17.2	145	0.00
38		TAME	0.710	0.631	11.1	150	0.00
39		1,2-Dichloroethane	0.433	0.352	18.7	146	0.00

0150

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\041502\C0009327.D Vial: 1
Acq On : 15 Apr 2002 9:45 am Operator: JuanG
Sample : CC422-40ppb Inst : MSVOA5
Misc : ms1453,vc423,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 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)
40		Trichloroethene	0.303	0.253	16.5	145	0.00
41		Methylcyclohexane	0.372	0.314	15.6	148	0.00
42	C	1,2-Dichloropropane	0.263	0.219	16.7	142	0.00
43		Dibromomethane	0.185	0.154	16.8	142	0.00
44		1,4-Dioxane	0.003	0.002	33.3#	136	0.00
45		Bromodichloromethane	0.393	0.346	12.0	148	0.00
46		2-Nitropropane	0.050	0.051	-2.0	153	0.00
47		2-Chloroethyl vinyl ether	0.140	0.115	17.9	134	0.00
48		4-Methyl-2-pentanone	0.244	0.195	20.1#	138	0.00
49		cis-1,3-Dichloropropene	0.442	0.393	11.1	148	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	168	0.00
51	S	Toluene-d8	1.109	1.108	0.1	169	0.00
52	C	Toluene	1.330	1.105	16.9	146	0.00
53		trans-1,3-Dichloropropene	0.453	0.410	9.5	147	0.00
54		1,1,2-Trichloroethane	0.238	0.192	19.3	141	0.00
55		Tetrachloroethene	0.412	0.341	17.2	143	0.00
56		2-hexanone	0.189	0.149	21.2#	135	0.00
57		1,3-Dichloropropane	0.473	0.386	18.4	143	0.00
58		Dibromochloromethane	0.346	0.314	9.2	150	0.00
59		1,2-Dibromoethane	0.326	0.266	18.4	141	0.00
60		1-Chlorohexane	0.416	0.353	15.1	147	0.00
61	P	Chlorobenzene	0.959	0.802	16.4	146	0.00
62		1,1,1,2-Tetrachloroethane	0.349	0.306	12.3	148	0.00
63	C	Ethylbenzene	1.552	1.283	17.3	144	0.00
64		m,p-Xylene	1.225	1.021	16.7	145	0.00
65		o-Xylene	1.297	1.078	16.9	144	0.00
66		Styrene	1.018	0.854	16.1	143	0.00
67	P	Bromoform	0.257	0.236	8.2	151	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	163	0.00
69		Isopropylbenzene	2.276	1.965	13.7	146	0.00
70	S	4-Bromofluorobenzene	0.813	0.837	-3.0	168	0.00
71		Bromobenzene	0.744	0.624	16.1	143	0.00
72		Cyclohexanone	0.014	0.012	14.3	142	0.00
73	P	1,1,2,2-Tetrachloroethane	0.578	0.482	16.6	139	0.00
74		trans-1,4-Dichloro-2-butene	0.103	0.123	-19.4	180	0.00
75		1,2,3-Trichloropropane	0.189	0.159	15.9	142	0.00
76		n-Propylbenzene	2.747	2.384	13.2	147	0.00

0151

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\041502\C0009327.D Vial: 1
Acq On : 15 Apr 2002 9:45 am Operator: JuanG
Sample : CC422-40ppb Inst : MSVOA5
Misc : ms1453,vc423,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260HEXA.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Fri Apr 12 09:33:20 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)
77	2-Chlorotoluene	1.958	1.687	13.8	146	0.00
78	4-Chlorotoluene	1.878	1.619	13.8	147	0.00
79	1,3,5-Trimethylbenzene	1.996	1.725	13.6	146	0.00
80	sec-Butylbenzene	2.380	2.070	13.0	149	0.00
81	1,3-Dichlorobenzene	1.439	1.225	14.9	144	0.00
82	4-Isopropyltoluene	2.046	1.795	12.3	148	0.00
83	1,4-Dichlorobenzene	1.468	1.265	13.8	146	0.00
84	tert-Butylbenzene	1.343	1.237	7.9	148	0.00
85	n-Butylbenzene	1.839	1.645	10.5	150	0.00
86	1,2-Dichlorobenzene	1.440	1.225	14.9	143	0.00
87	1,2,4-Trimethylbenzene	2.168	1.889	12.9	147	0.00
88	1,2-Dibromo-3-Chloropropane	0.108	0.094	13.0	142	0.00
89	1,2,4-Trichlorobenzene	0.972	0.824	15.2	143	0.00
90	Hexachlorobutadiene	0.421	0.371	11.9	153	0.00
91	Naphthalene	1.913	1.603	16.2	137	0.00
92	1,2,3-Trichlorobenzene	0.851	0.714	16.1	141	0.00

Average % D = 14.2755

0152

(#) = Out of Range SPCC's out = 0 CCC's out = 0

INTERNAL STANDARD

VOC.10

Volatile Internal Standard Area Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VC422-CC422	**Injection Date:**	04/12/02
Lab File ID:	C0009306.D	**Injection Time:**	10:13
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1346917	10.73	1219274	14.01	821072	16.55
Upper Limit [a]	2693834	11.23	2438548	14.51	1642144	17.05
Lower Limit [b]	673459	10.23	609637	13.51	410536	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VC422-BS	1366443	10.73	1239740	14.01	838651	16.55
VC422-MB	1379308	10.73	1239011	14.01	836920	16.55
F12787-1	1335313	10.73	1220036	14.01	819744	16.55
ZZZZZZ	1304504	10.73	1184529	14.01	791866	16.55
ZZZZZZ	1281107	10.73	1165244	14.01	790447	16.55
ZZZZZZ	1272922	10.73	1154586	14.01	776543	16.55
ZZZZZZ	1250405	10.73	1149102	14.01	770148	16.55
ZZZZZZ	1238067	10.73	1139396	14.01	762841	16.55
F12787-1MS	1214120	10.73	1108151	14.01	767999	16.55
F12787-1MSD	1229425	10.73	1130240	14.01	771693	16.55
ZZZZZZ	1183068	10.73	1097721	14.01	730932	16.55
ZZZZZZ	1195475	10.73	1098833	14.01	734652	16.55
F12806-3	1172772	10.73	1076853	14.01	718580	16.55

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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 Internal Standard Area Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VC423-CC422	**Injection Date:**	04/15/02
Lab File ID:	C0009327.D	**Injection Time:**	09:45
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	2267633	10.73	2059323	14.01	1341850	16.55
Upper Limit [a]	4535266	11.23	4118646	14.51	2683700	17.05
Lower Limit [b]	1133817	10.23	1029662	13.51	670925	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VC423-BS	1858160	10.73	1780021	14.01	1221699	16.55
VC423-MB	1847110	10.73	1757410	14.01	1189193	16.55
F12806-1	1822814	10.73	1732988	14.01	1178862	16.55
F12806-2	1835460	10.73	1751674	14.01	1186337	16.55
F12811-1	1834278	10.73	1727732	14.01	1177956	16.56
ZZZZZZ	1799872	10.73	1715169	14.01	1157230	16.55
ZZZZZZ	1779238	10.73	1702151	14.01	1153148	16.55
ZZZZZZ	1766719	10.73	1687718	14.01	1153880	16.55
F12811-1MS	1759153	10.73	1685249	14.01	1153345	16.55
F12811-1MSD	1745684	10.73	1674858	14.01	1144028	16.55
ZZZZZZ	1773707	10.73	1702192	14.01	1152652	16.55
ZZZZZZ	1875145	10.73	1825295	14.01	1230076	16.55
ZZZZZZ	2104536	10.73	2013583	14.01	1362169	16.55
ZZZZZZ	2020183	10.73	1943560	14.01	1337382	16.55
ZZZZZZ	1910484	10.73	1827493	14.01	1243317	16.55
ZZZZZZ	1788688	10.73	1728946	14.01	1178727	16.55
ZZZZZZ	1686548	10.73	1663046	14.01	1141297	16.55
ZZZZZZ	1675271	10.73	1616455	14.01	1108499	16.55
ZZZZZZ	1678302	10.73	1628162	14.01	1091305	16.55
ZZZZZZ	1653938	10.73	1615226	14.01	1087037	16.55
ZZZZZZ	1665163	10.73	1621248	14.01	1107120	16.55

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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.

SEQUENCE LOGS AND BENCH SHEETS

VOC.11

0160

Sequence Name: C:\MSDCHEM\2\SEQUENCE\041202.S
Comment:
Operator: JuanG
Data Path: C:\MSDCHEM\2\DATA\041202\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	BFB	100	C0009305	BFB	BFB tune
2	Calibration	1	C0009306	8260	CC422-40ppb
3	Spike	2	C0009307	8260	ICV-40
4	Spike	3	C0009308	8260	BS
5	Blank	4	C0009309	8260	MB
6	Sample	5	C0009310	8260	F12787-1,5ml
7	Sample	6	C0009311	8260	F12787-2,5ml
8	Sample	7	C0009312	8260	F12787-3,5ml
9	Sample	8	C0009313	8260	F12787-4,5ml
10	Sample	9	C0009314	8260	F12787-5,5ml
11	Sample	10	C0009315	8260	F12787-6,5ml
12	Spike	11	C0009316	8260	F12787-1MS,5ml
13	Duplicate	11	C0009317	8260	F12787-1MSD,5ml
14	Sample	12	C0009318	8260	F12811-1,0.250ml
15	Sample	13	C0009319	8260	F12811-2,0.250ml
16	Sample	14	C0009320	8260	F12811-4,0.250ml
17	Sample	15	C0009321	8260	F12811-3,5.0ml
18	Sample	16	C0009322	8260	F12811-5,5.0ml
19	Sample	17	C0009323	8260	F12806-3,5ml
20	Sample	18	C0009324	8260	F12806-1,0.05ml
21	Sample	19	C0009325	8260	F12806-2,0.05ml

GC/MS VOA ANALYSIS LOG

DATE:	4/12/02
COLUMN TYPE:	DB 624
DETECTOR:	MS
INSTRUMENT:	MS_VOA 5
ANALYST:	[illegible]

METHODS:	8260 / 624
METHOD FILE:	8260 HEXD
CALIB. DATE:	4/11/02
RUN BATCH:	VC 422

STANDARDS	
BFB	V2719
ICAL/CCV	V2806, V2805, V2793
ISTD/SURR	V2729
ICV/QC	V2796, V2803, V2785

DATA FILE	SAMPLE ID	SAMPLE AMT.	MATRIX	PH	ALS #	DIL.	METHOD	VIAL #	COMMENTS
C0009306	BFB	2ml	–		–	–	BFB	–	✓ Autofind.
1076	CCH22-40	5ml	W	7	1	1	8260	–	✓
4/12/02 087	ICV-40				2			–	✓
088	BS				3			–	✓
09 10	MB				4			–	ND
10	F12787 - 1				5			2	ND MS 1453
11	-2				6			3	ND
12	-3				7			2	ND
13	-4				8			3	✓
14	-5				9			1	✓
15	-6				10			1	ND
16	-1MS				11			3	✓
17	-1MSD				11			3	✓
18	F12811 - 1	0.250			12	20		1	ND 8Mix
19	-2				13			1	ND 8Mix
20	-4				14			1	ND 8Mix
21	-3	5ml			15	1		1	ND
22	-5				16			2	ND
23	F12806 - 3				17			1	ND
24	-1	0.05			18	10mx		1	ND 8Mix
25	-2				17	100x		1	ND 8Mix

Notes:

000065

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

Sequence Name: C:\MSDCHEM\2\SEQUENCE\041502.S
Comment:
Operator: JuanG
Data Path: C:\MSDCHEM\2\DATA\041502\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	BFB	100	C0009326	BFB	BFB tune
2	Calibration	1	C0009327	8260	CC422-40ppb
3	Spike	2	C0009328	8260	BS
4	Blank	3	C0009329	8260	MB
5	Sample	4	C0009330	8260	F12806-1,5ml
6	Sample	5	C0009331	8260	F12806-2,5ml
7	Sample	6	C0009332	8260	F12811-1,5ml
8	Sample	7	C0009333	8260	F12811-2,5ml
9	Sample	8	C0009334	8260	F12811-4,5ml
10	Sample	9	C0009335	8260	F12841-3,5ml
11	Spike	10	C0009336	8260	F12811-1MS,5ml
12	Duplicate	10	C0009337	8260	F12811-1MSD,5ml
13	Sample	11	C0009338	8260	F12864-16,0.5ml
14	Sample	12	C0009339	8260	F12864-17,5ml
15	Sample	13	C0009340	8260	F12864-18,5ml
16	Sample	14	C0009341	8260	F12864-19,5ml
17	Sample	15	C0009342	8260	F12880-1,5ml
18	Sample	16	C0009343	8260	F12880-2,5ml
19	Sample	17	C0009344	8260	F12880-3,5ml
20	Sample	18	C0009345	8260	F12816-1,5ml JRC 4/16/02
21	Sample	19	C0009346	8260	F12816-16,0.05ml
22	Sample	20	C0009347	8260	F12816-17,0.05ml
23	Sample	21	C0009348	8260	F12864-16,0.025ml

0163

GC/MS VOA ANALYSIS LOG

DATE:	4/15/02
COLUMN TYPE:	DB 624
DETECTOR:	MS
INSTRUMENT:	MS_VOA 5
ANALYST:	[illegible]

METHODS:	8260/624
METHOD FILE:	8260 HEXA
CALIB. DATE:	4/11/02
RUN BATCH:	VC 423

STANDARDS	
BFB	V2719
ICAL/CCV	V2815, V2805, V2798
ISTD/SURR	V2729
ICV/QC	V2813, V2803, V2785

DATA FILE	SAMPLE ID	SAMPLE AMT.	MATRIX	PH	ALS #	DIL.	METHOD	VIAL #	COMMENTS
C0009326	BFB	2ul	—	—	—	—	BFB	—	✓ Autogain.
27	CC422-40	5ml	W	7	1	1	8260	—	✓
28	BS				2			—	✓
29	MB				3			—	ND
30	F12806-1			1	4			2	ND
31	-2				5			2	✓
32	F12811-1				6			2	ND
33	-1R2 JH 4/15/02				7			2	✓
34	-4				8			2	ND
35	F12841-3				9			1	✓ MS 1453
36	F12811-1 MS				10			3	✓
37	-1MSD				10			3	✓
38	F12864-16	0.5ml			11	10		1	✓ RR 100x MS 1456
39	-17	5ml			12	1		1	✓ RR 50x
40	-18				13			1	✓
41	-19				14			1	✓
42	F12880-1				15			1	ND
43	-2				16			1	ND
44	-3				17			1	ND
45	F12816-11	5ml			18	1		1	ND MS 1452
46	-16	0.05			19	100x		2	✓
47	-17				20	1		2	✓
48	F12864-16	0.0250			21	~~200~~ 250x	JH 4/16/2	1	✓

000066

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

MSVOA log xls NF 8/01

Sequence Name: C:\MSDCHEM\2\SEQUENCE\041102.S
Comment:
Operator: JuanG
Data Path: C:\MSDCHEM\2\DATA\041102\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	BFB	100	C0009287	BFB	BFB tune
2	BFB	100	C0009288	BFB	BFB tune
3	Blank	1	C0009289	8260	Bottled H2O
4	Calibration	1	C0009290	8260	IC422-1ppb
5	Calibration	2	C0009291	8260	IC422-5ppb
6	Calibration	3	C0009292	8260	IC422-20ppb
7	Calibration	4	C0009293	8260	ICC422-40ppb
8	Calibration	5	C0009294	8260	IC422-70ppb
9	Calibration	6	C0009295	8260	IC422-100ppb
10	Spike	7	C0009296	8260	ICV-40
11	Spike	8	C0009297	8260	BS
12	Blank	9	C0009298	8260	MB
13	Sample	10	C0009299	8260	F12787-1,5ml
14	Sample	11	C0009300	8260	F12787-2,5ml
15	Sample	12	C0009301	8260	F12787-3,5ml
16	Sample	13	C0009302	8260	F12787-4,5ml
17	Spike	14	C0009303	8260	F12787-2MS,5ml
18	Duplicate	14	C0009304	8260	F12787-2MSD,5ml
19	Sample	15	C0009305	8260	F12787-5,5ml
20	Sample	16	C0009306	8260	F12787-6,5ml
21	Sample	17	C0009307	8260	F12811-1,5ml
22	Sample	18	C0009308	8260	F12811-2,5ml
23	Sample	19	C0009309	8260	F12811-3,5ml
24	Sample	20	C0009310	8260	F12811-4,5ml
25	Sample	21	C0009311	8260	F12811-5,5ml

0165

GC/MS VOA ANALYSIS LOG

DATE:	4/11/02
COLUMN TYPE:	DB 624
DETECTOR:	MS
INSTRUMENT:	MS- VOA 5
ANALYST:	[illegible]

METHODS:	8260 / 624
METHOD FILE:	8260 HEXA
CALIB. DATE:	4/11/02
RUN BATCH:	VC422

STANDARDS	
BFB	V2719
ICAL/CCV	V2806, V2805, V2798
ISTD/SURR	V2729
ICV/QC	V2796, V2803, V2785

DATA FILE	SAMPLE ID	SAMPLE AMT.	MATRIX	PH	ALS #	DIL.	METHOD	VIAL #	COMMENTS
C0009287	BFB	2ul	—	—	—	—	BFB	—	autoprint
88	BFB	↓	—	↓	—	—	↓		↓
89	Bottled H_2O	5ml	W	7	1	10	8260		✓
90	IC422- 1ppb	0.5ml	↓	↓	2	2	↓	↓	✓
91	-5ppb	2.5ml	↓	↓	3	1	↓	↓	✓
92	-20ppb	5ml	↓	↓	4	↓	↓	↓	✓
93	-40ppb	↓	↓	↓	5	↓	↓	↓	✓
94	-70ppb	↓	↓	↓	6	↓	↓	↓	✓
95	-100ppb	↓	↓	↓	7	↓	↓	↓	✓
96	ICV -40	↓	↓	↓	8	↓	↓	↓	✓
97	BS	↓	↓	↓	9	↓	↓	↓	1,1 DCE ↓ RC
98	MB	↓	↓	↓	10	↓	↓	↓	✓
99	F12787-1	↓	↓	↓	11	↓	↓	1	ND
300	-2	↓	↓	↓	12	↓	↓	1	✓
01	-3	↓	↓	↓	13	↓	↓	1	✓
02	-4	↓	↓	↓	14	↓	↓	1	✓
03	-2MS	↓	↓	↓	15	↓	↓	2	✓ ↓
04	-2MSD	↓	↓	↓	16	↓	↓	2	✓
	-								

6
Flu 4/12/02

Notes: ICV. 1,1 DCE ↓ Rilsen samples

000064

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

SECTION 8

SURROGATE RECOVERIES SUMMARY

SVOC.02

Semivolatile Surrogate Recovery Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12806-1	W009351.D	40.0	27.0	85.0	63.0	63.0	85.0
F12806-2	W009354.D	43.0	30.0	87.0	70.0	74.0	82.0
OP4948-BS	W009349.D	50.0	34.0	90.0	80.0	81.0	93.0
OP4948-MB	W009350.D	44.0	31.0	79.0	70.0	69.0	89.0
OP4948-MS	W009352.D	64.0	53.0	90.0	78.0	82.0	94.0
OP4948-MSD	W009353.D	74.0	60.0	93.0	86.0	85.0	96.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

METHOD BLANK SUMMARY

SVOC.03

Method Blank Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MB	W009350.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MB	W009350.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	20-125%
4165-62-2	Phenol-d5	31%	10-125%

Method Blank Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MB	W009350.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	79%	35-140%
4165-60-0	Nitrobenzene-d5	70%	46-125%
321-60-8	2-Fluorobiphenyl	69%	46-125%
1718-51-0	Terphenyl-d14	89%	49-126%

BLANK SPIKE SUMMARY

SVOC.04

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-BS	W009349.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.8	74	60-125
59-50-7	4-Chloro-3-methyl phenol	50	42.1	84	70-125
120-83-2	2,4-Dichlorophenol	50	41.1	82	68-125
105-67-9	2,4-Dimethylphenol	50	34.4	69	42-125
51-28-5	2,4-Dinitrophenol	50	44.1	88	10-125
534-52-1	4,6-Dinitro-o-cresol	50	46.8	94	46-125
95-48-7	2-Methylphenol	50	35.8	72	51-125
	3&4-Methylphenol	100	63.9	64	46-125
88-75-5	2-Nitrophenol	50	40.6	81	64-125
100-02-7	4-Nitrophenol	50	19.0	38	17-125
87-86-5	Pentachlorophenol	50	48.7	97	60-125
108-95-2	Phenol	50	19.3	39	16-125
95-95-4	2,4,5-Trichlorophenol	50	43.5	87	74-125
88-06-2	2,4,6-Trichlorophenol	50	41.3	83	70-125
83-32-9	Acenaphthene	50	42.0	84	70-125
208-96-8	Acenaphthylene	50	49.6	99	75-125
120-12-7	Anthracene	50	49.0	98	75-125
56-55-3	Benzo(a)anthracene	50	47.4	95	75-125
50-32-8	Benzo(a)pyrene	50	50.0	100	75-125
205-99-2	Benzo(b)fluoranthene	50	47.4	95	75-125
191-24-2	Benzo(g,h,i)perylene	50	46.9	94	57-135
207-08-9	Benzo(k)fluoranthene	50	46.3	93	75-125
101-55-3	4-Bromophenyl phenyl ether	50	48.1	96	74-125
85-68-7	Butyl benzyl phthalate	50	48.5	97	38-134
100-51-6	Benzyl Alcohol	50	33.6	67	30-125
91-58-7	2-Chloronaphthalene	50	43.4	87	59-125
106-47-8	4-Chloroaniline	50	44.0	88	31-125
86-74-8	Carbazole	50	48.2	96	75-125
218-01-9	Chrysene	50	46.0	92	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	40.4	81	64-125
111-44-4	bis(2-Chloroethyl)ether	50	39.9	80	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	41.2	82	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	46.7	93	75-125
95-50-1	1,2-Dichlorobenzene	50	40.3	81	35-125
541-73-1	1,3-Dichlorobenzene	50	38.1	76	30-125
106-46-7	1,4-Dichlorobenzene	50	38.7	77	32-125

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-BS	W009349.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	47.2	94	73-125
606-20-2	2,6-Dinitrotoluene	50	48.2	96	75-125
91-94-1	3,3'-Dichlorobenzidine	50	47.7	95	55-125
53-70-3	Dibenzo(a,h)anthracene	50	46.0	92	64-130
132-64-9	Dibenzofuran	50	42.9	86	73-125
84-74-2	Di-n-butyl phthalate	50	49.8	100	47-140
117-84-0	Di-n-octyl phthalate	50	50.1	100	52-125
84-66-2	Diethyl phthalate	50	46.6	93	59-125
131-11-3	Dimethyl phthalate	50	46.4	93	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	50.6	101	71-125
206-44-0	Fluoranthene	50	49.0	98	75-125
86-73-7	Fluorene	50	46.4	93	75-125
118-74-1	Hexachlorobenzene	50	47.5	95	74-125
87-68-3	Hexachlorobutadiene	50	36.7	73	22-125
77-47-4	Hexachlorocyclopentadiene	50	38.7	77	10-125
67-72-1	Hexachloroethane	50	38.4	77	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	47.3	95	53-130
78-59-1	Isophorone	50	42.1	84	63-125
91-57-6	2-Methylnaphthalene	50	40.7	81	51-125
88-74-4	2-Nitroaniline	50	45.1	90	75-125
99-09-2	3-Nitroaniline	50	43.6	87	62-125
100-01-6	4-Nitroaniline	50	49.4	99	67-125
91-20-3	Naphthalene	50	41.5	83	53-125
98-95-3	Nitrobenzene	50	40.8	82	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	41.9	84	61-125
86-30-6	N-Nitrosodiphenylamine	50	51.1	102	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	45.2	90	67-125
120-82-1	1,2,4-Trichlorobenzene	50	40.9	82	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	20-125%
4165-62-2	Phenol-d5	34%	10-125%
118-79-6	2,4,6-Tribromophenol	90%	35-140%

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-BS	W009349.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	46-125%
321-60-8	2-Fluorobiphenyl	81%	46-125%
1718-51-0	Terphenyl-d14	93%	49-126%

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

SVOC.05

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MS	W009352.D	1	04/11/02	ME	04/10/02	OP4948	SW518
OP4948-MSD	W009353.D	1	04/11/02	ME	04/10/02	OP4948	SW518
F12806-1	W009351.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Compound	F12806-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		95	71.8	76	79.6	84	10	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		95	83.3	88	84.6	89	2	72-125/20
120-83-2	2,4-Dichlorophenol	ND		95	75.7	80	85.0	89	12	65-125/20
105-67-9	2,4-Dimethylphenol	ND		95	74.6	79	81.2	85	8	37-125/20
51-28-5	2,4-Dinitrophenol	ND		95	90.4	95	89.9	95	1	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		95	89.2	94	92.8	98	4	54-125/20
95-48-7	2-Methylphenol	ND		95	74.3	78	82.4	87	10	57-125/20
	3&4-Methylphenol	ND		190	144	76	157	83	9	55-125/20
88-75-5	2-Nitrophenol	ND		95	75.9	80	84.3	89	10	67-125/20
100-02-7	4-Nitrophenol	ND		95	63.7	67	67.5	71	6	41-125/23
87-86-5	Pentachlorophenol	ND		95	91.9	97	94.7	100	3	67-126/20
108-95-2	Phenol	ND		95	53.9	57	60.6	64	12	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		95	87.1	92	87.1	92	0	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		95	80.9	85	83.6	88	3	70-125/20
83-32-9	Acenaphthene	ND		95	82.6	87	83.5	88	1	74-125/20
208-96-8	Acenaphthylene	ND		95	95.6	101	96.4	101	1	75-125/20
120-12-7	Anthracene	ND		95	91.1	96	91.1	96	0	75-125/20
56-55-3	Benzo(a)anthracene	ND		95	90.8	96	93.2	98	3	75-125/20
50-32-8	Benzo(a)pyrene	ND		95	96.2	101	98.9	104	3	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		95	87.5	92	92.6	97	6	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		95	93.3	98	91.0	96	2	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		95	88.9	94	93.2	98	5	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		95	89.1	94	89.6	94	1	73-125/20
85-68-7	Butyl benzyl phthalate	ND		95	93.7	99	97.2	102	4	66-125/20
100-51-6	Benzyl Alcohol	ND		95	73.0	77	81.6	86	11	53-125/20
91-58-7	2-Chloronaphthalene	ND		95	82.1	86	85.6	90	4	64-125/20
106-47-8	4-Chloroaniline	ND		95	80.7	85	85.3	90	6	44-125/20
86-74-8	Carbazole	ND		95	89.1	94	94.0	99	5	75-125/20
218-01-9	Chrysene	ND		95	87.2	92	90.1	95	3	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		95	75.5	79	83.3	88	10	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		95	74.8	79	84.3	89	12	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		95	76.8	81	84.7	89	10	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		95	87.2	92	88.8	93	2	75-125/20
95-50-1	1,2-Dichlorobenzene	ND		95	73.6	77	82.2	87	11	39-125/20
541-73-1	1,3-Dichlorobenzene	ND		95	69.2	73	77.4	81	11	36-125/20
106-46-7	1,4-Dichlorobenzene	ND		95	70.0	74	77.0	81	10	39-125/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MS	W009352.D	1	04/11/02	ME	04/10/02	OP4948	SW518
OP4948-MSD	W009353.D	1	04/11/02	ME	04/10/02	OP4948	SW518
F12806-1	W009351.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Compound	F12806-1 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		95	90.8	96	91.8	97	1	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		95	92.9	98	95.0	100	2	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		95	93.9	99	97.1	102	3	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		95	90.7	95	91.7	97	1	64-127/20
132-64-9	Dibenzofuran	ND		95	81.5	86	80.9	85	1	73-125/20
84-74-2	Di-n-butyl phthalate	ND		95	91.3	96	96.5	102	6	71-125/20
117-84-0	Di-n-octyl phthalate	ND		95	93.3	98	97.5	103	4	66-125/30
84-66-2	Diethyl phthalate	ND		95	89.8	95	91.8	97	2	64-125/20
131-11-3	Dimethyl phthalate	ND		95	91.9	97	92.4	97	1	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		95	95.3	100	100	105	5	74-125/20
206-44-0	Fluoranthene	ND		95	88.2	93	91.9	97	4	75-125/20
86-73-7	Fluorene	ND		95	89.1	94	88.9	94	0	75-125/20
118-74-1	Hexachlorobenzene	ND		95	87.3	92	90.0	95	3	75-125/20
87-68-3	Hexachlorobutadiene	ND		95	65.1	69	72.7	77	11	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		95	56.6	60	61.6	65	8	18-125/27
67-72-1	Hexachloroethane	ND		95	70.7	74	79.5	84	12	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		95	91.3	96	92.5	97	1	54-125/20
78-59-1	Isophorone	ND		95	80.5	85	86.5	91	7	62-125/20
91-57-6	2-Methylnaphthalene	ND		95	74.1	78	80.9	85	9	58-125/20
88-74-4	2-Nitroaniline	ND		95	88.5	93	90.5	95	2	67-125/20
99-09-2	3-Nitroaniline	ND		95	77.4	81	78.6	83	2	53-125/20
100-01-6	4-Nitroaniline	ND		95	96.5	102	98.6	104	2	63-125/20
91-20-3	Naphthalene	ND		95	74.8	79	83.2	88	11	55-125/20
98-95-3	Nitrobenzene	ND		95	77.4	81	87.2	92	12	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		95	78.6	83	84.8	89	8	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		95	94.4	99	100	105	6	75-125/20
85-01-8	Phenanthrene	ND		95	87.3	92	89.1	94	2	75-125/20
129-00-0	Pyrene	ND		95	86.9	91	88.9	94	2	67-125/20
120-82-1	1,2,4-Trichlorobenzene	ND		95	74.8	79	83.5	88	11	45-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12806-1	Limits
367-12-4	2-Fluorophenol	64%	74%	40%	20-125%
4165-62-2	Phenol-d5	53%	60%	27%	10-125%
118-79-6	2,4,6-Tribromophenol	90%	93%	85%	35-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4948-MS	W009352.D	1	04/11/02	ME	04/10/02	OP4948	SW518
OP4948-MSD	W009353.D	1	04/11/02	ME	04/10/02	OP4948	SW518
F12806-1	W009351.D	1	04/11/02	ME	04/10/02	OP4948	SW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12806-1, F12806-2

CAS No.	Surrogate Recoveries	MS	MSD	F12806-1	Limits
4165-60-0	Nitrobenzene-d5	78%	86%	63%	46-125%
321-60-8	2-Fluorobiphenyl	82%	85%	63%	46-125%
1718-51-0	Terphenyl-d14	94%	96%	85%	49-126%

INSTRUMENT PERFORMANCE CHECK (DFTPP)

SVOC.07

Instrument Performance Check (DFTPP)

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6) [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
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12806)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	CB3006
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

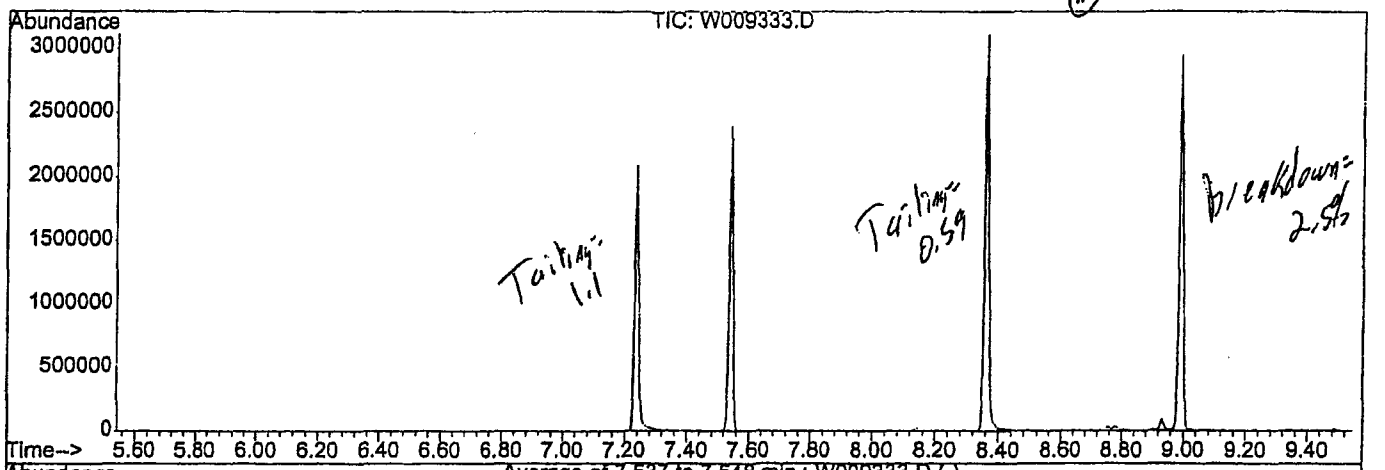
Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

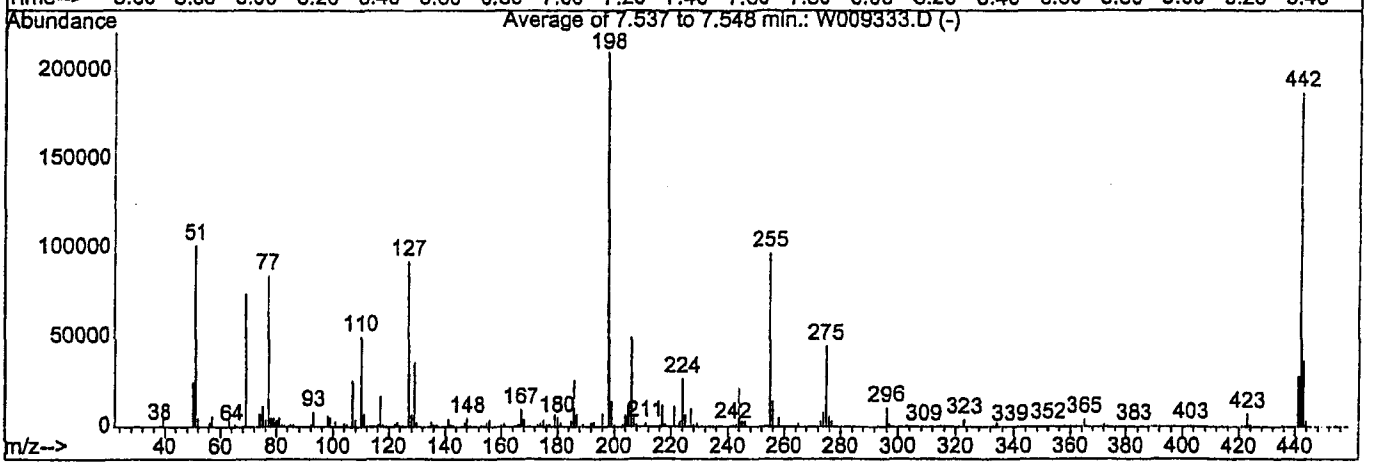
Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12806-2	W009354.D	04/11/02	19:33	10:30	CB3011
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

SW-846 Method 8270

Data File : C:\HPCHEM\1\DATA\041102\W009333.D Vial: 1
Acq On : 11 Apr 2002 9:03 am Operator: marke
Sample : dftpp Inst : MSBNA01
Misc : op4915,sw518,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P
Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625

4/11/02





AutoFind: Scans 458, 459, 460; Background Corrected with Scan 452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	101591	PASS
68	69	0.00	2	0.3	218	PASS
69	198	0.00	100	35.3	74456	PASS
70	69	0.00	2	0.5	377	PASS
127	198	40	60	43.8	92498	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	211051	PASS
199	198	5	9	6.8	14373	PASS
275	198	10	30	21.4	45157	PASS
365	198	1	100	2.0	4255	PASS
441	443	0.01	100	76.9	28291	PASS
442	198	40	100	89.1	187979	PASS
443	442	17	23	19.6	36795	PASS

W009333.D 8270C.M Thu Apr 11 15:43:51 2002 MSBNA01

INITIAL CALIBRATION

SVOC.08

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------	----------	----------	ISTD	----------	----------	----------	
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------	

(#) = Out of Range Average % RSD = 10.2642

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22
45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19 OU
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74

Average % RSD = 8.98601

(#) = Out of Range

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.46434

0219

(#) = Out of Range

CONTINUING CALIBRATION

SVOC.09

NOT APPLICABLE
TO THIS REPORT

INTERNAL STANDARD

SVOC.10

Semivolatile Internal Standard Area Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW518-ICC518	**Injection Date:**	04/11/02
Lab File ID:	W009337.D	**Injection Time:**	10:55
Instrument ID:	GCMSW	**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	250070	5.27	897287	6.51	433932	8.88	549734	11.42	290992	16.37	205291	18.87
Upper Limit [a]	500140	5.77	1794574	7.01	867864	9.38	1099468	11.92	581984	16.87	410582	19.37
Lower Limit [b]	125035	4.77	448644	6.01	216966	8.38	274867	10.92	145496	15.87	102646	18.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4953-LBS	257423	5.27	920779	6.51	448490	8.88	566615	11.42	327495	16.36	211019	18.86
OP4953-LB	229028	5.27	820741	6.50	395906	8.88	519228	11.42	356644	16.36	221772	18.86
F12794-1	278272	5.27	977762	6.50	487382	8.87	628454	11.42	416897	16.36	264685	18.86
OP4953-MS	263248	5.27	959858	6.51	468915	8.88	595451	11.43	348910	16.37	232893	18.86
OP4953-MSD	247226	5.27	878877	6.50	426108	8.88	542052	11.42	326299	16.37	219796	18.86
OP4900-MB	256877	5.27	908767	6.50	456651	8.88	580582	11.42	386396	16.36	251858	18.86
ZZZZZZ	263729	5.27	917013	6.50	456000	8.88	585415	11.42	387987	16.36	238929	18.86
ZZZZZZ	256142	5.27	891430	6.50	452681	8.88	578285	11.42	385142	16.36	239884	18.86
OP4948-BS	271235	5.26	960048	6.50	479234	8.88	591253	11.42	350121	16.37	232824	18.86
OP4948-MB	254788	5.26	903200	6.50	449984	8.88	583037	11.42	376917	16.35	223837	18.86
F12806-1	282100	5.26	993525	6.50	488045	8.88	624478	11.42	386241	16.36	241079	18.86
OP4948-MS	260565	5.27	934822	6.51	452194	8.88	572768	11.42	325187	16.36	215426	18.86
OP4948-MSD	259158	5.27	915607	6.51	456000	8.88	569800	11.43	336828	16.36	221984	18.87
F12806-2	234681	5.27	836878	6.50	404667	8.88	515277	11.42	331508	16.36	213293	18.86
ZZZZZZ	243124	5.27	852180	6.50	418034	8.87	554825	11.42	362379	16.36	230734	18.86
ZZZZZZ	255827	5.27	894948	6.50	442272	8.88	565372	11.42	380087	16.36	235054	18.86

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.

SEQUENCE LOGS AND BENCH SHEETS

SVOC.11

Sequence Name: C:\HPCHEM\1\SEQUENCE\041102.S
Comment: SW518
Operator: marke
Data Path: C:\HPCHEM\1\DATA\041102\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/12/02

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	W009333	DFTPP	dftpp
2	Sample	2	W009334	8270C	ic518-50
3	Sample	3	W009335	8270C	ic518-5
4	Sample	4	W009336	8270C	ic518-25
5	Sample	5	W009337	8270C	icc518-75
6	Sample	6	W009338	8270C	ic518-100
7	Sample	7	W009339	8270C	ic518-125
8	Sample	8	W009340	8270C	icv
9	Sample	9	W009341	8270C	op4953-lbs
10	Sample	10	W009342	8270C	op4953-lb
11	Sample	11	W009343	8270C	f12794-1
12	Sample	12	W009344	8270C	op4953-ms
13	Sample	13	W009345	8270C	op4953-msd
14	Sample	14	W009346	8270C	op4900-mb
15	Sample	15	W009347	8270C	f12743-3,4
16	Sample	16	W009348	8270C	f12759-1,4
17	Sample	17	W009349	8270C	op4948-bs
18	Sample	18	W009350	8270C	op4948-mb
19	Sample	19	W009351	8270C	f12806-1
20	Sample	20	W009352	8270C	op4948-ms
21	Sample	21	W009353	8270C	op4948-msd
22	Sample	22	W009354	8270C	f12806-2
23	Sample	23	W009355	8270C	f12840-1
24	Sample	24	W009356	8270C	f12840-2
25	Sample	25	W009357	8270C	op4915-ms
26	Sample	26	W009358	8270C	op4915-msd
27	Sample	27	W009359	8270C	1539a,10

C262

GC/MS ANALYSIS LOG

DATE: 4/11/02	METHODS: 8270/625	ANALYST: NF
COLUMN TYPE: DB-5ms	METHOD FILE: 8270C	RUN BATCH: SW518
INSTRUMENT: MS-1	CALIB. DATE: 4/11/02	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS Int. Std. S1502
W009333	1	DFTPP	8270						✓	S1501 passed
34	2	CL482-50							✓	S1505
35	3	-5							✓	S1503
36	4	-25							✓	S1504
37	5	-75							✓	S1506
38	6	-100							✓	S1507 w/ice
39	7	-125							✓	S1508 passed
40	8	ICV						x2	✓	E1033 passed
41	9	OP4953-LBS		S TCLP	OP4953	100/1000ml	1ml	x1	✓	✓
42	10	-LB		↓	↓	↓	↓	↓	✓	NA
43	11	F12794-1							✓	NA
44	12	OP4953-MS							✓	✓
45	13	-MSD		↓	↓	↓	↓	↓	✓	✓
46	14	OP4900-MB		W	OP4900	1000ml	1ml	x1	✓	NA
47	15	F12743-3		↓	↓	890ml	↓	x4	✓	✓
48	16	F12759-1		↓	↓	1000ml	↓	↓	✓	✓
49	17	OP4948-BS		W	OP4948	1000ml	1ml	x1	✓	✓
50	18	-MB		↓	↓	↓	↓	↓	✓	NA
51	19	F12806-1				1000ml			✓	✓
52	20	OP4948-MS				930ml			✓	✓
53	21	-MSD				↓			✓	✓
54	22	F12806-2				960ml			✓	✓
55	23	F12810-1				990ml			✓	✓
56	24	-2				980ml		↓	✓	✓
57	25	OP4915-MS	↓	↓	OP4915	450ml	↓	x1		autotune (outlier)

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [signature]

Ms1_log.xls NF rev. 11/01

GC/MS ANALYSIS LOG

DATE: 4/11/02	METHODS: 8270/625	ANALYST: MC
COLUMN TYPE: DB-5MS	METHOD FILE: 8270C	RUN BATCH: SW518
INSTRUMENT: MS-1	CALIB. DATE: 4/1/02	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
W009358	26	094915-MS1	8270	W	014915	450 ml	1 ml	X1		outofTune (continue)
59	27	1539A, X10	↓					X10		

4/11/02

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature:

Ms1_log.xls NF rev. 11/01

0264

SAMPLE PREP REPORT

SVOC.12

LIQUID SAMPLE PREP REPORT

Date: 4/10/02 Method*: 8270 Batch#: OP 4948

Batch Started On: 4/10/02 Prior Number Of Samples in Batch: 0 Analyst: AA

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 4948 MB	X	1000	6	<2>11	0.5ml		1.0	
OP 4948 BS	X	1000				0.5ml		
F12806 - 1	7	1000						MS/MSD
- 2	6	960						
F12840 - 1	5	990						
- 2	5	980						
OP 4948 MS	6	530	6	<2>11	0.5ml	0.5ml		F12806-1
OP 4948 MSD								
OP DUP								

MRD 4-10-02

AA Surrogate ID: E1034C Conc: 200/100ppb Exp. Date: 9/29/02 Bath Temp.: 75°C

FS

AA Spike ID: E1035 Conc: 100ppb Exp. Date: 10/1/02 Bath Temp2.: N/A

FS

CH2CL2 Lot #: CD710 Hexane Lot #: — Na2SO4 Lot#: —

Acetonitrile Lot #: — Methanol Lot #: — Acetone Lot#: —

Reagent #: — Reagent #: — Reagent #: —

0266

Comments:

Relinquished By: Mirella Perez Date: 4-10-02

Accepted By: M. E. Date: 4/10/02

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8332 prepped by 3535A.

Extwater xls NF rev. 9/01

SECTION 9

SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F12806-1	GG002840.D	69.0
F12806-2	GG002841.D	65.0
OP4943-BS	GG002824.D	102.0
OP4943-MB	GG002825.D	85.0
OP4943-MS	GG002838.D	99.0
OP4943-MSD	GG002839.D	104.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	58-131%

(a) Recovery from GC signal #1

GC SURROGATE RETENTION TIME

SGC.03

GC Surrogate Retention Time Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG146-CC142	**Injection Date:**	04/10/02
Lab File ID:	GG002833.D	**Injection Time:**	15:40
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	13.69

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
ZZZZZZ	GG002834.D	04/10/02	16:40	13.77
ZZZZZZ	GG002835.D	04/10/02	17:08	13.76
ZZZZZZ	GG002836.D	04/10/02	17:35	13.78
F12797-4	GG002837.D	04/10/02	18:03	13.76
OP4943-MS	GG002838.D	04/10/02	18:31	13.79
OP4943-MSD	GG002839.D	04/10/02	18:58	13.79
F12806-1	GG002840.D	04/10/02	19:26	13.77
F12806-2	GG002841.D	04/10/02	19:53	13.74

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG146-CC142	**Injection Date:**	04/10/02
Lab File ID:	GG002823.D	**Injection Time:**	11:04
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	13.74

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP4943-BS	GG002824.D	04/10/02	11:31	13.77
OP4943-MB	GG002825.D	04/10/02	11:59	13.72

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4943-MB	GG002825.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12806-1, F12806-2

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	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	85%	58-131%

BLANK SPIKE SUMMARY

SGC.05

Blank Spike Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4943-BS	GG002824.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12806-1, F12806-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.5	100	80-120
121-82-4	RDX	2.5	2.3	92	80-120
99-65-0	1,3-Dinitrobenzene	2.5	2.4	96	80-120
606-20-2	2,6-Dinitrotoluene	2.5	2.5	100	80-120
121-14-2	2,4-Dinitrotoluene	2.5	2.3	92	80-120
35572-78-2	2-amino-4,6-Dinitrotoluene	2.5	2.1	84	80-120
19406-51-0	4-amino-2,6-Dinitrotoluene	2.5	2.1	84	80-120
98-95-3	Nitrobenzene	2.5	2.1	84	80-120
88-72-2	o-Nitrotoluene	2.5	1.9	76	74-120
99-08-1	m-Nitrotoluene	2.5	1.9	76	76-120
99-99-0	p-Nitrotoluene	2.5	2.0	80	76-120
479-45-8	Tetryl	2.5	2.4	96	74-120
99-35-4	1,3,5-Trinitrobenzene	2.5	2.4	96	80-120
118-96-7	2,4,6-Trinitrotoluene	2.5	2.3	92	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	102%	58-131%

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

SGC.06

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12806
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4943-MS	GG002838.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146
OP4943-MSD	GG002839.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146
F12797-4	GG002837.D	1	04/10/02	MRE	04/09/02	OP4943	GGG146

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12806-1, F12806-2

CAS No.	Compound	F12797-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	ND		5.8	5.7	99	6.0	104	5	80-120/20
121-82-4	RDX	ND		5.8	5.7	99	5.6	97	2	79-120/20
99-65-0	1,3-Dinitrobenzene	ND		5.8	5.8	101	6.1	106	5	78-125/20
606-20-2	2,6-Dinitrotoluene	ND		5.8	5.5	96	5.8	101	5	80-120/20
121-14-2	2,4-Dinitrotoluene	ND		5.8	5.3	92	5.7	99	7	80-120/20
35572-78-2	2-amino-4,6-Dinitrotoluene	ND		5.8	4.9	85	5.4	94	10	80-120/20
19406-51-0	4-amino-2,6-Dinitrotoluene	ND		5.8	4.9	85	5.4	94	10	80-120/22
98-95-3	Nitrobenzene	ND		5.8	5.3	92	5.6	97	6	80-120/22
88-72-2	o-Nitrotoluene	ND		5.8	5.0	87	5.4	94	8	72-120/20
99-08-1	m-Nitrotoluene	ND		5.8	4.6	80	5.3	92	14	72-120/20
99-99-0	p-Nitrotoluene	ND		5.8	4.8	83	5.3	92	10	74-120/20
479-45-8	Tetryl	ND		5.8	5.6	97	5.7	99	2	52-120/25
99-35-4	1,3,5-Trinitrobenzene	ND		5.8	5.5	96	5.7	99	4	80-120/20
118-96-7	2,4,6-Trinitrotoluene	ND		5.8	5.4	94	5.6	97	4	66-120/20

CAS No.	Surrogate Recoveries	MS	MSD	F12797-4	Limits
610-39-9	3,4-Dinitrotoluene	99%	104%	93%	58-131%

INITIAL CALIBRATION

SGC.08

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002735.D\DAD1B.CH Vial: 4
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002735.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:02:49 Operator: MIKEE
Sample : IC142-100 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:46 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 11:02:01 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
7) S 3,4-Dinitrotolue	13.88	13.88	503283	687593	119.168	117.565
Spiked Amount 250.000 Range 58 - 131 Recovery =					47.67%#	47.03%#
Target Compounds						
1) HMX	4.10	4.10	325358	911813	109.740m	108.946m
2) RDX	6.48	6.49	392498	723955	112.867m	118.925m
3) 1,3,5-Trinitrobe	8.85	8.85	799697	1618798	105.470	106.487
4) 1,3-Dinitrobenze	10.92	10.92	1092706	1308660	106.787	106.720
5) Tetryl	12.04	12.03	695416	1207451	114.339	110.397
6) Nitrobenzene	12.50	12.49	673791	289416	100.887	95.042
8) 2,4,6-Trinitroto	14.38	14.38	713545	1046915	100.435	100.180
9) 4-Amino-2,6-Dini	15.24	15.24	536313	1453059	107.080	106.313
0) 2-Amino-4,6-Dini	16.03	16.03	711542	1178809	102.405	101.131
1) 2,6-Dinitrotolue	17.03	17.00	588312	800292	114.978	115.621
2) 2,4-Dinitrotolue	17.49	17.49	944115	803476	97.477	92.332
3) o-Nitrotoluene	20.75	20.75	468904	505232	107.866	107.963
4) p-Nitrotoluene	22.21	22.19	408820	790147	111.748	108.576
5) m-Nitrotoluene	23.96	23.95	520545	758122	111.346	109.429

MPK 4/8/02

4/10/02

0297

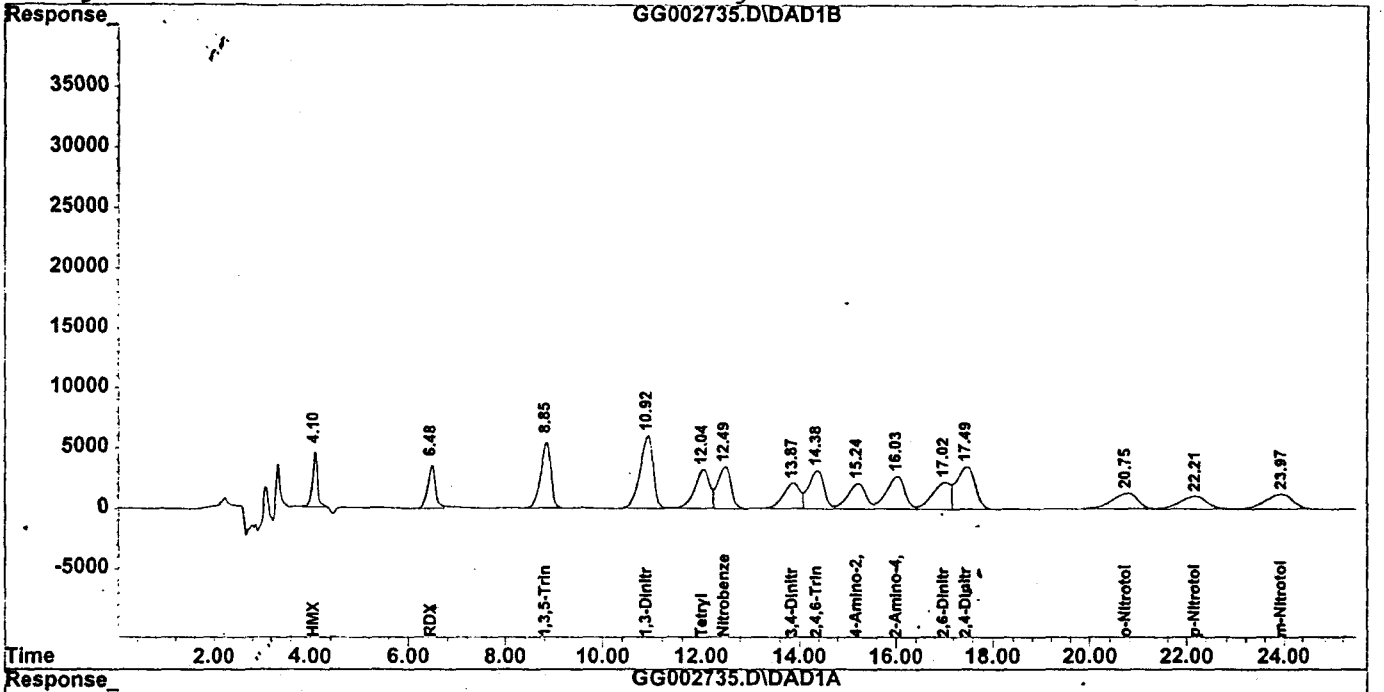
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

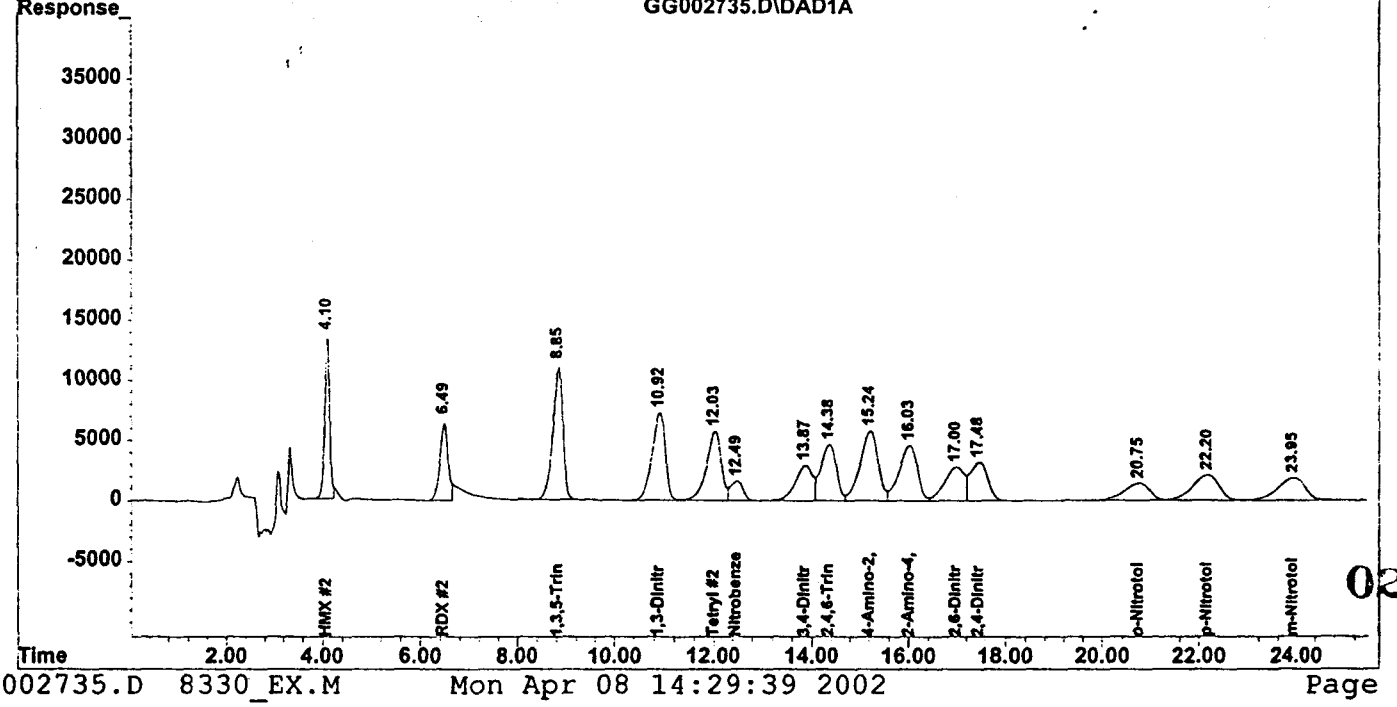
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002735.D\DAD1B.CH Vial: 4
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002735.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:02:49 Operator: MIKEE
Sample : IC142-100 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:46 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 11:02:01 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0298

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002736.D\DAD1B.CH Vial: 5
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002736.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:30:21 Operator: MIKEE
Sample : IC142-200 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:46 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	13.85	13.85	965455	1321689	191.832	192.220
	Spiked Amount 250.000 Range 58 - 131 Recovery =					76.73%	76.89%
	Target Compounds						
1)	HMX	4.10	4.10	604628	1701259	185.835m	186.580m
2)	RDX	6.48	6.48	741461	1325528	188.908m	180.796m
3)	1,3,5-Trinitrobe	8.85	8.85	1543205	3098748	192.974	191.423
4)	1,3-Dinitrobenze	10.92	10.92	2088883	2500130	191.166	191.045
5)	Tetryl	12.03	12.03	1325116	2316994	190.550	191.891
6)	Nitrobenzene	12.49	12.49	1291516	548903	191.679	189.659
8)	2,4,6-Trinitroto	14.36	14.36	1371331	2026235	192.186	193.544
9)	4-Amino-2,6-Dini	15.21	15.21	1029716	2805465	191.999	193.073
10)	2-Amino-4,6-Dini	16.00	16.00	1368475	2288731	192.325	194.156
11)	2,6-Dinitrotolue	16.99	16.96	1141483	1549852	194.027	193.661
12)	2,4-Dinitrotolue	17.45	17.45	1808165	1553078	191.519	193.295
13)	o-Nitrotoluene	20.70	20.70	880458	935976	187.769	185.257
14)	p-Nitrotoluene	22.11	22.12	745113	1477762	182.260	187.024
15)	m-Nitrotoluene	23.87	23.87	951602	1416895	182.809	186.895

Bf op

MPA 4/8/02

4/10/02

0299

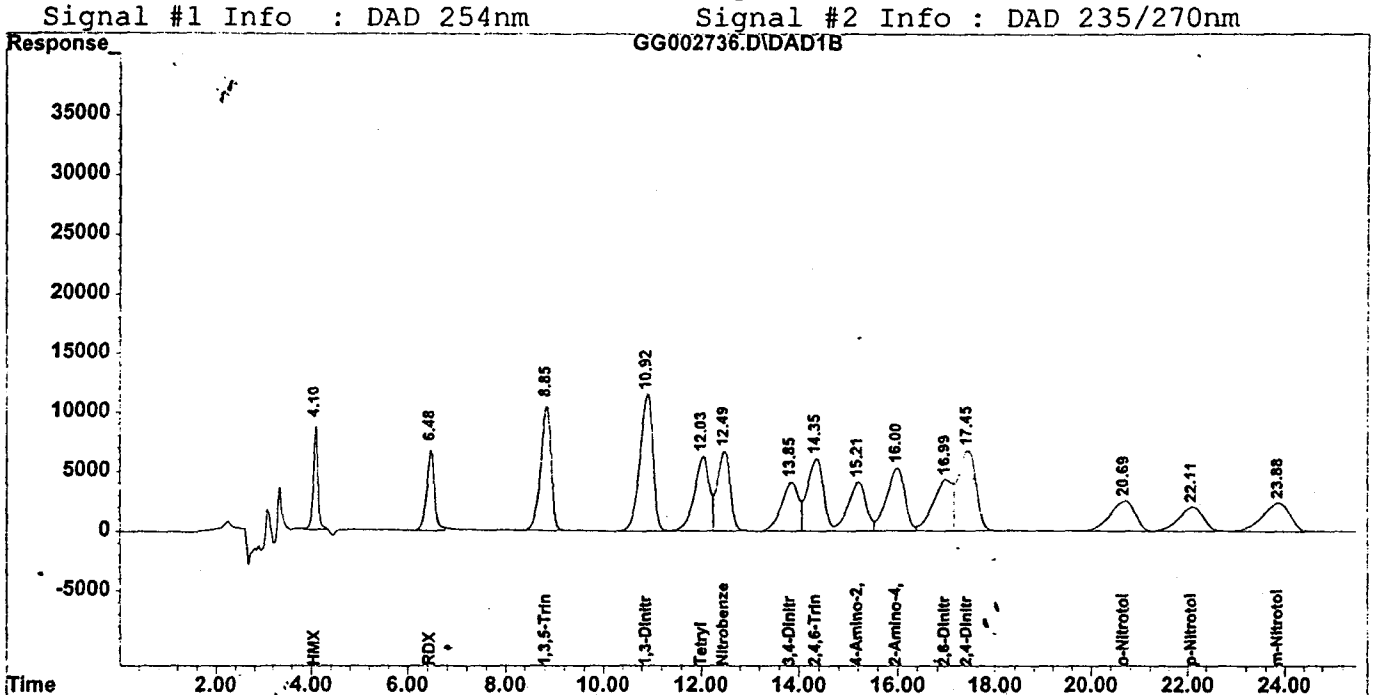
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

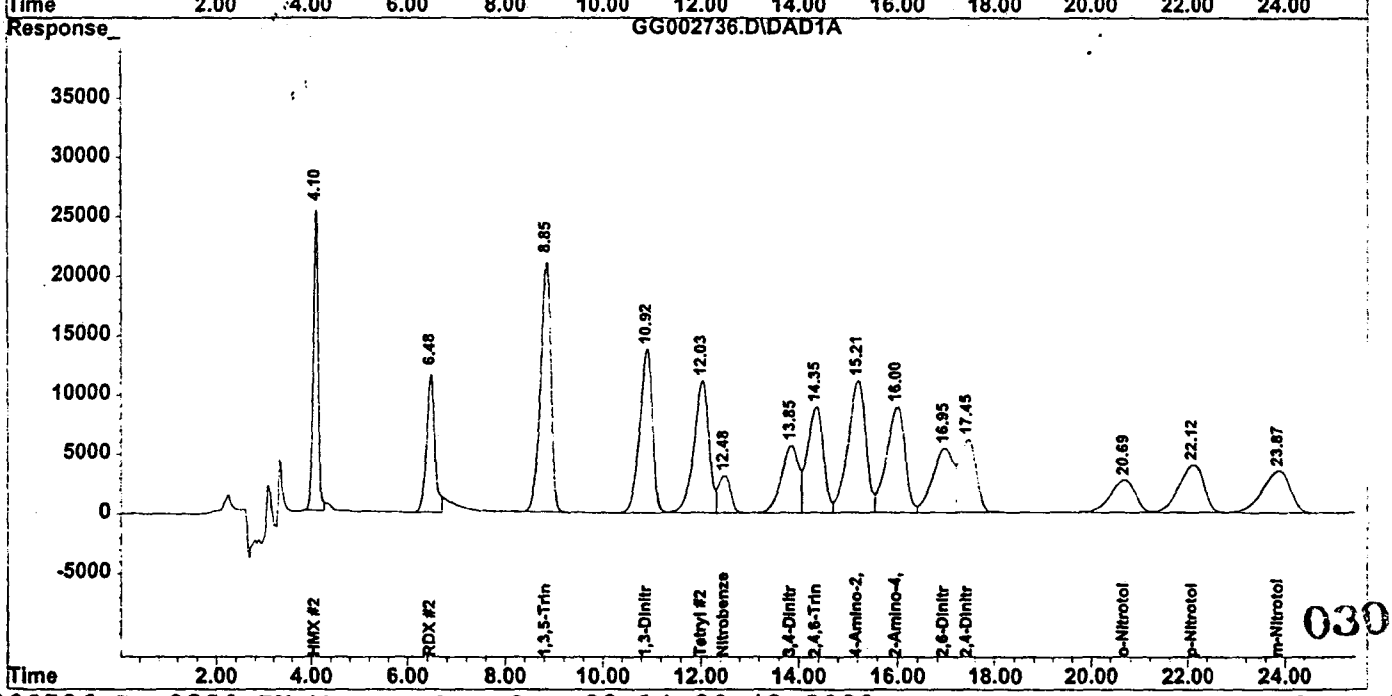
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002736.D\DAD1B.CH Vial: 5
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002736.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:30:21 Operator: MIKEE
Sample : IC142-200 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:46 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0300

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002737.D\DAD1B.CH Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GGQ02737.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:57:53 Operator: MIKEE
Sample : ICC142-300 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:47 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	13.80	13.81	1433848	1973782	290.838	292.751
Spiked Amount	250.000 Range	58 - 131	Recovery	=		116.34%	117.10%
	Target Compounds						
1)	HMX	4.09	4.09	885633	2496720	282.196m	283.325
2)	RDX	6.46	6.46	1084620	1928833	284.219	278.658m
3)	1,3,5-Trinitrobe	8.81	8.81	2293246	4602029	291.892	290.516
4)	1,3-Dinitrobenze	10.87	10.87	3100915	3726147	290.192	291.250
5)	Tetryl	11.98	11.98	1947836	3420712	286.874	289.162
6)	Nitrobenzene	12.44	12.44	1914355	815142	290.153	289.125
8)	2,4,6-Trinitroto	14.31	14.31	2052435	3029157	293.371	294.088
9)	4-Amino-2,6-Dini	15.16	15.16	1546609	4178979	294.264	292.667
0)	2-Amino-4,6-Dini	15.95	15.95	2055800	3419879	294.574	294.414
1)	2,6-Dinitrotolue	16.94	16.91	1691409	2314444	291.860	293.857
2)	2,4-Dinitrotolue	17.40	17.40	2721865	2328982	294.543	294.805
3)	o-Nitrotoluene	20.65	20.64	1349367	1440062	296.847	295.937
4)	p-Nitrotoluene	22.07	22.07	1064993	2143253	272.594	280.342
5)	m-Nitrotoluene	23.83	23.83	1389264	2057652	278.872	280.607

BL by

pwl 4/8/02

4/10/02

0391

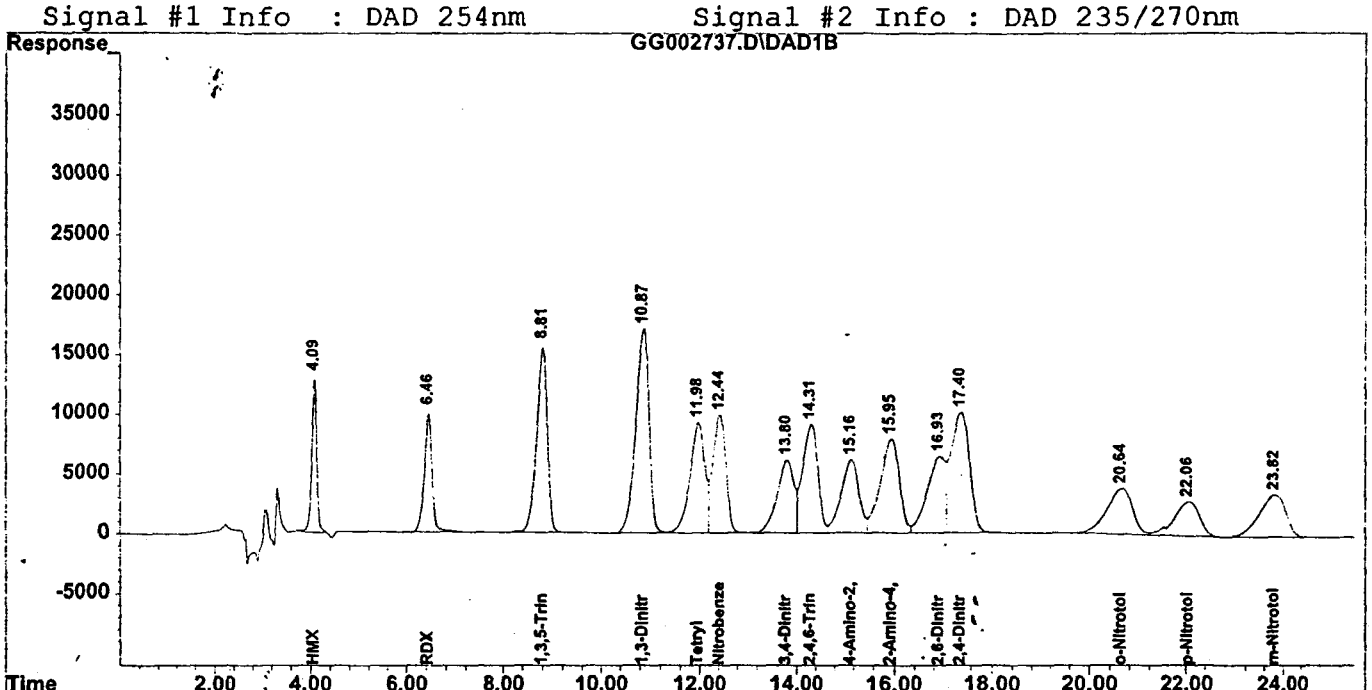
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

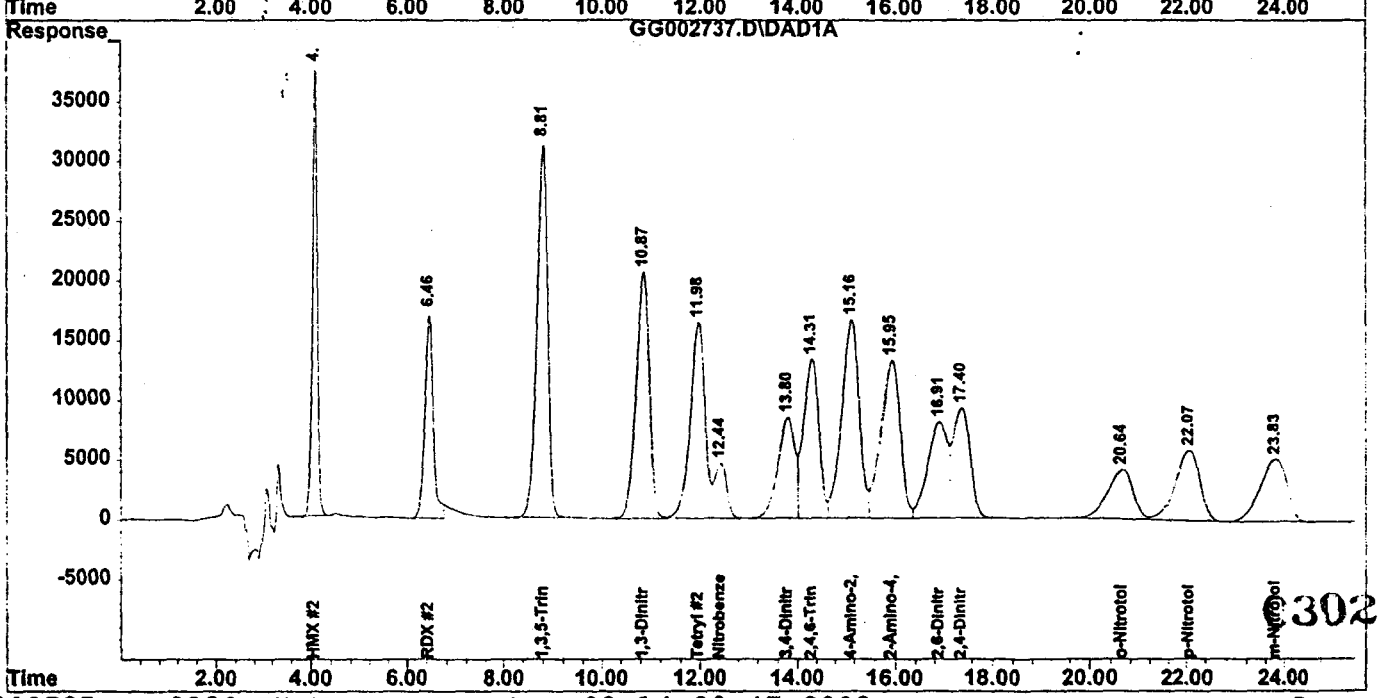
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002737.D\DAD1B.CH Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002737.D\DAD1A.CH
Acq On : 05-Apr-2002, 12:57:53 Operator: MIKEE
Sample : ICC142-300 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:47 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





302

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002738.D\DAD1B.CH Vial: 7
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002738.D\DAD1A.CH
Acq On : 05-Apr-2002, 13:25:25 Operator: MIKEE
Sample : IC142-400 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:47 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	13.80	13.80	1930263	2585861	395.557	386.649
Spiked Amount	250.000 Range	58 - 131	Recovery	=		158.22%#	154.66%#
	Target Compounds						
1)	HMX	4.09	4.09	1143784	3278298	371.808m	379.040 BL
2)	RDX	6.46	6.46	1434506	2494694	382.614	370.819m op
3)	1,3,5-Trinitrobe	8.82	8.82	3005047	6044383	385.969	385.633
4)	1,3-Dinitrobenze	10.87	10.87	4091630	4887178	387.124	385.751
5)	Tetryl	11.98	11.98	2591899	4493598	387.380	384.486
6)	Nitrobenzene	12.44	12.44	2560130	1076146	392.323	386.370
8)	2,4,6-Trinitroto	14.31	14.31	2720272	3967663	391.715	387.751
9)	4-Amino-2,6-Dini	15.17	15.16	2045166	5460108	391.617	385.530
0)	2-Amino-4,6-Dini	15.95	15.95	2707510	4463317	390.310	386.643
1)	2,6-Dinitrotolue	16.95	16.92	2225323	3023293	387.494	386.495
2)	2,4-Dinitrotolue	17.41	17.41	3578546	3052248	389.610	388.600
3)	o-Nitrotoluene	20.66	20.66	1668385	1804510	368.318	372.514
4)	p-Nitrotoluene	22.08	22.08	1409263	2854121	372.042	381.661
5)	m-Nitrotoluene	23.84	23.84	1842363	2748198	378.715	383.032

MHL 4/8/02

4/10/02

0303

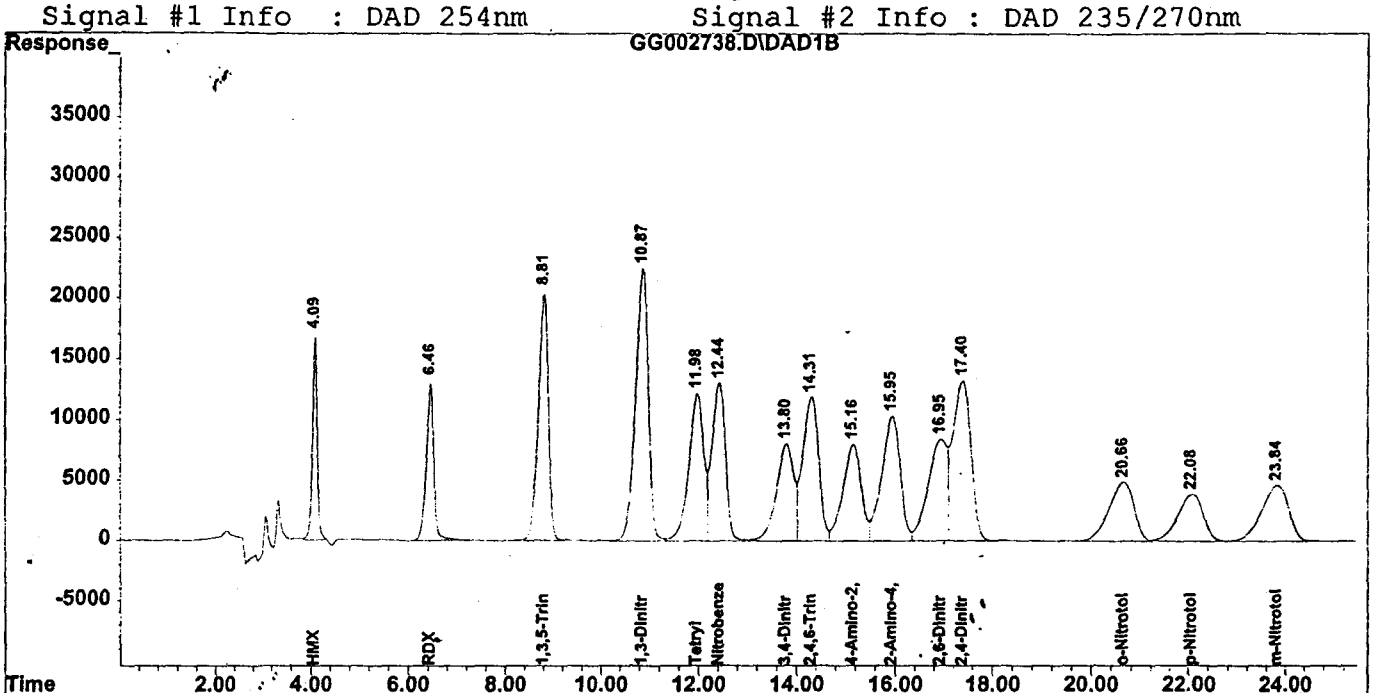
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

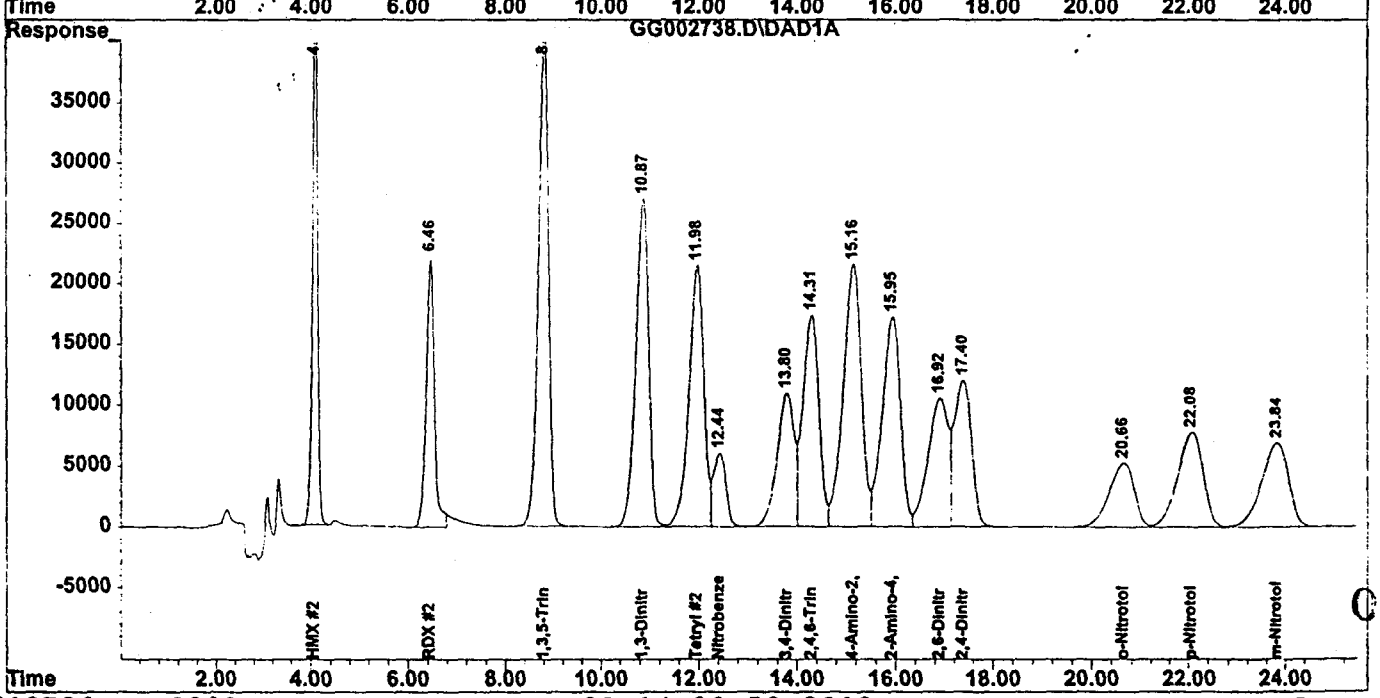
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002738.D\DAD1B.CH Vial: 7
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002738.D\DAD1A.CH
Acq On : 05-Apr-2002, 13:25:25 Operator: MIKEE
Sample : IC142-400 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:47 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0304

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002739.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GGQ02739.D\DAD1A.CH
Acq On : 05-Apr-2002, 13:53:02 Operator: MIKEE
Sample : IC142-500 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:48 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	13.82	13.82	2412403	3275132	495.735	493.832
Spiked Amount	250.000 Range	58 - 131	Recovery	=		198.29%#	197.53%#
	Target Compounds						
1)	HMX	4.09	4.09	1446866	4174425	478.766m	489.058
2)	RDX	6.46	6.46	1801798	3116672	485.858	474.039m
3)	1,3,5-Trinitrobe	8.82	8.82	3815618	7682213	494.415	494.568
4)	1,3-Dinitrobenze	10.88	10.88	5162681	6186076	492.423	492.662
5)	Tetryl	12.00	11.99	3270484	5706176	492.686	493.018
6)	Nitrobenzene	12.45	12.45	3224158	1360154	496.463	492.534
7)	2,4,6-Trinitroto	14.33	14.33	3419742	5019653	495.001	494.344
8)	4-Amino-2,6-Dini	15.18	15.18	2568575	6915027	494.432	492.715
9)	2-Amino-4,6-Dini	15.97	15.97	3401403	5648093	493.328	493.395
10)	2,6-Dinitrotolue	16.97	16.94	2795528	3819506	490.618	492.439
11)	2,4-Dinitrotolue	17.42	17.42	4510044	3852395	494.235	493.991
12)	o-Nitrotoluene	20.68	20.68	2152215	2310358	484.728	485.275
13)	p-Nitrotoluene	22.10	22.10	1843775	3666590	495.409	495.992
14)	m-Nitrotoluene	23.86	23.86	2403073	3537391	500.634	498.311

op

MAR 4/8/02

4/10/02

0305

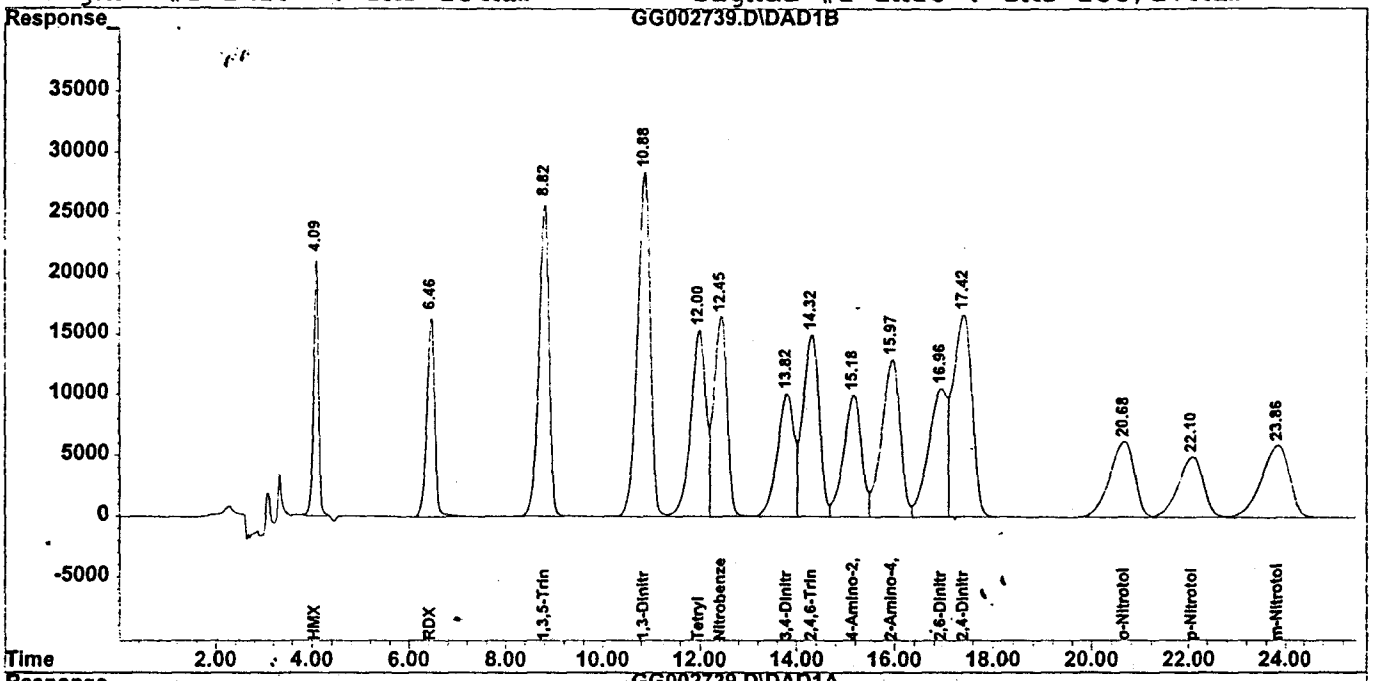
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

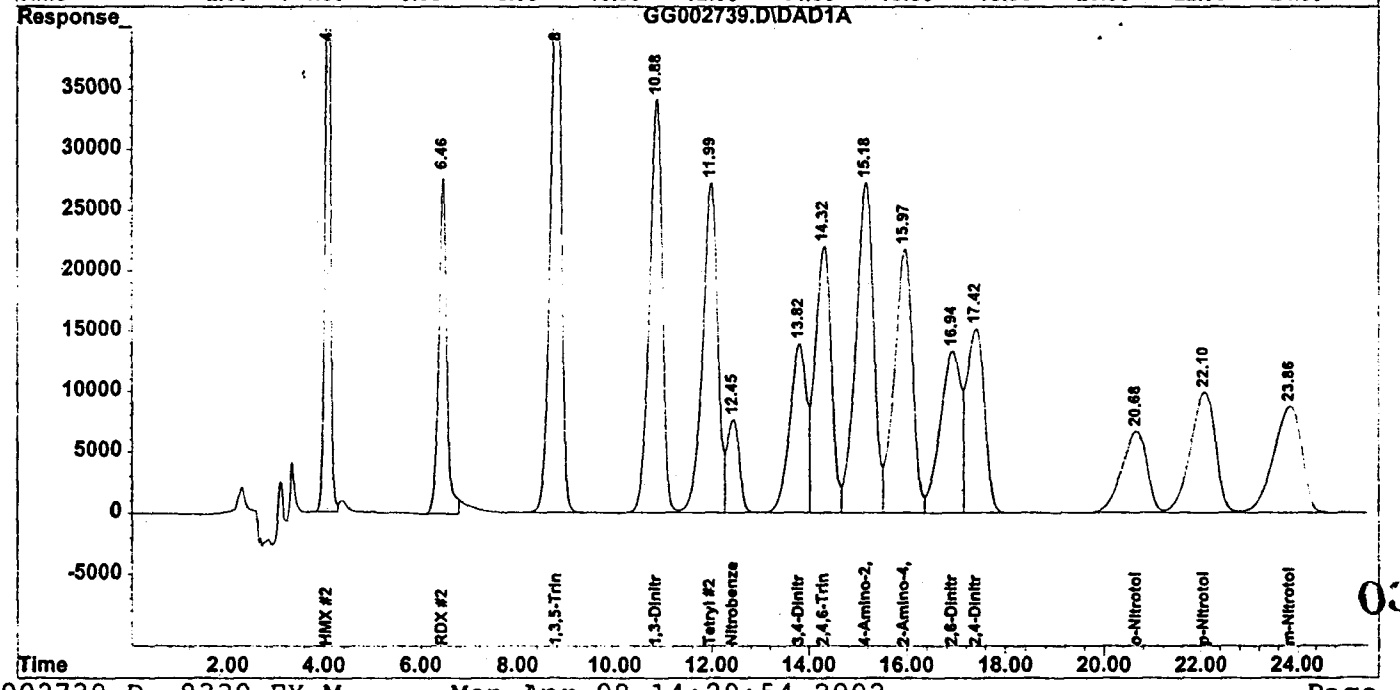
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002739.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002739.D\DAD1A.CH
Acq On : 05-Apr-2002, 13:53:02 Operator: MIKEE
Sample : IC142-500 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:48 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0306

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002740.D\DAD1B.CH Vial: 3
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002740.D\DAD1A.CH
Acq On : 05-Apr-2002, 14:20:37 Operator: MIKEE
Sample : IC142-20 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:49 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	13.83	13.83	96909	136801	19.948	20.678
Spiked Amount	250.000 Range	58 - 131		Recovery	=	7.98%#	8.27%#
	Target Compounds						
1)	HMX	4.09	4.09	60152	180502	20.075m	21.240m
2)	RDX	6.46	6.48	91056	190917	24.693m	29.374m
3)	1,3,5-Trinitrobe	8.82	8.82	169206	339440	21.974	21.900
4)	1,3-Dinitrobenze	10.88	10.88	226595	271248	21.679	21.666
5)	Tetryl	11.99	11.99	140198	241316	21.182	20.908m
6)	Nitrobenzene	12.46	12.44	139589	66938	21.525	24.312m
8)	2,4,6-Trinitroto	14.32	14.32	152069	227500	22.056	22.455
9)	4-Amino-2,6-Dini	15.21	15.19	103051	304605	19.881m	21.767
0)	2-Amino-4,6-Dini	15.97	15.97	140949	248394	20.497	21.756
1)	2,6-Dinitrotolue	16.97	16.93	116058	173507	20.445	22.438
2)	2,4-Dinitrotolue	17.41	17.41	201106	175316	22.089	22.535
3)	o-Nitrotoluene	20.64	20.65	94877	100552	21.500m	21.246m
4)	p-Nitrotoluene	22.09	22.10	84886	163506	22.850m	22.154
5)	m-Nitrotoluene	23.89	23.89	109606	160320	22.828m	22.600m

MK 4/8/02

4/10/02

0307

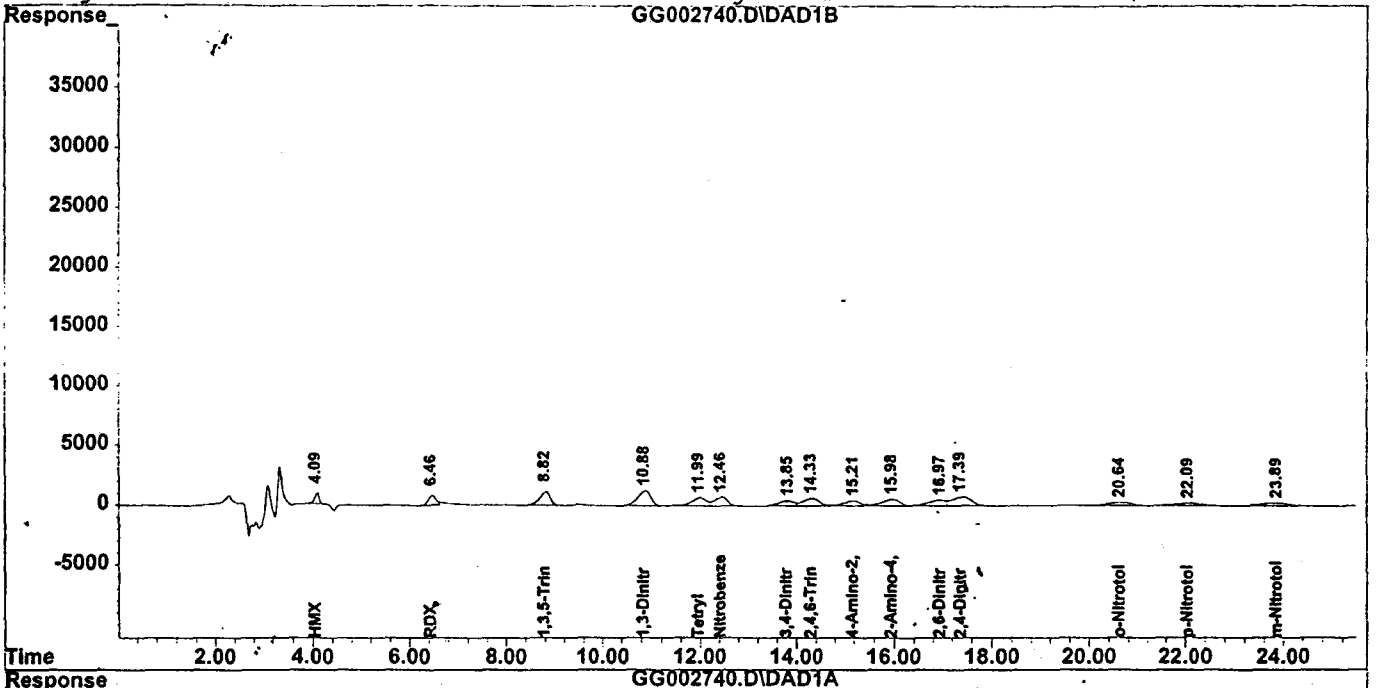
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

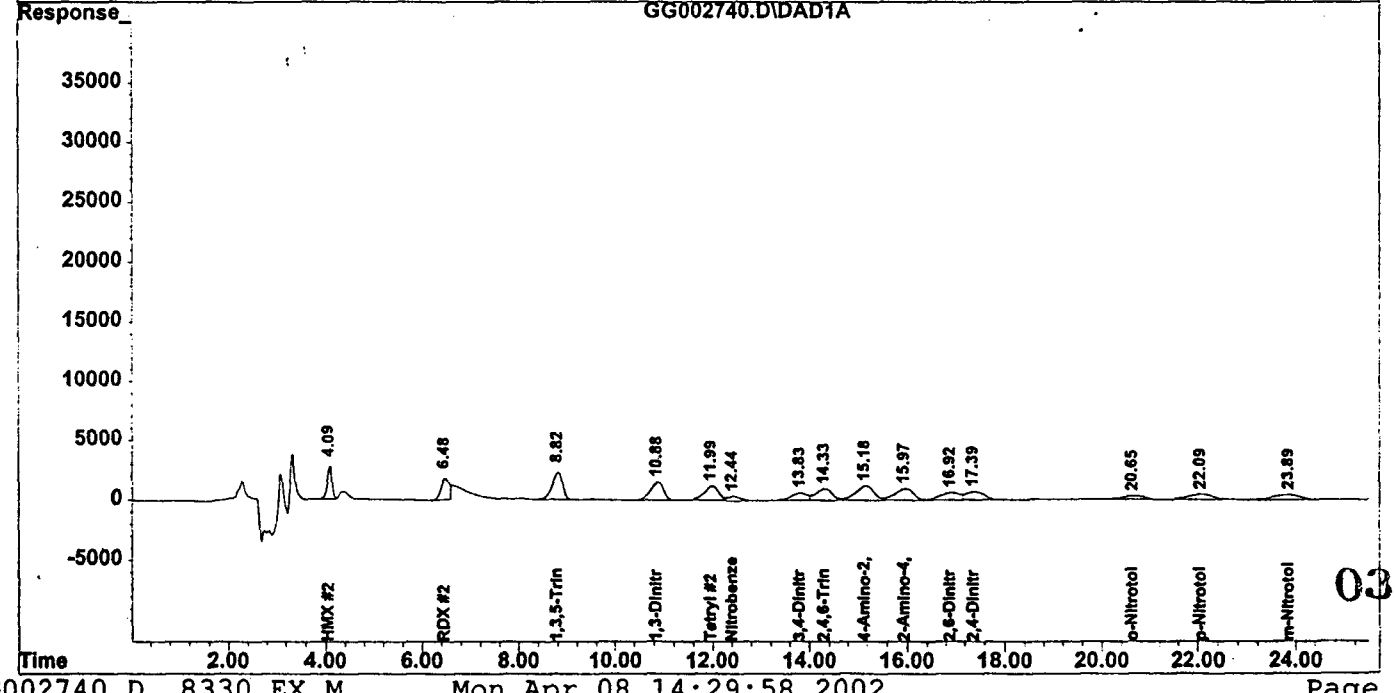
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002740.D\DAD1B.CH Vial: 3
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002740.D\DAD1A.CH
Acq On : 05-Apr-2002, 14:20:37 Operator: MIKEE
Sample : IC142-20 Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 14:49 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 12:49:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0308

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002741.D\DAD1B.CH Vial: 9
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002741.D\DAD1A.CH
Acq On : 05-Apr-2002, 14:48:14 Operator: MIKEE
Sample : S1381 ICV Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 15:08 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 14:51:46 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	250.000	Range	58 - 131	Recovery	=	0.00%#	0.00%#
	Target Compounds						
1)	HMX	4.09	4.09	632715	1799904	211.027m	209.630m
2)	RDX	6.46	6.46	777207	1392980	202.835	212.560m
3)	1,3,5-Trinitrobe	8.82	8.82	1630648	3289640	208.339	208.934
4)	1,3-Dinitrobenze	10.88	10.88	2235306	2680769	210.904	211.194
5)	Tetryl	12.00	11.99	1413609	2474150	211.496	212.757
6)	Nitrobenzene	12.45	12.45	1363221	580546	207.572	203.541
8)	2,4,6-Trinitroto	14.32	14.32	1644366	2419016	234.479	233.981 High
9)	4-Amino-2,6-Dini	15.18	15.18	1071152	2890353	206.855	203.550
0)	2-Amino-4,6-Dini	15.97	15.97	1471058	2444004	213.045	210.976
1)	2,6-Dinitrotolue	16.96	16.94	1247592	1709015	218.966	216.607
2)	2,4-Dinitrotolue	17.42	17.42	1889058	1608364	203.941	202.460
3)	o-Nitrotoluene	20.67	20.67	920701	990482	206.062	207.127
4)	p-Nitrotoluene	22.10	22.10	774576	1559504	203.668	207.573
5)	m-Nitrotoluene	23.86	23.86	997057	1486841	202.883	205.148

MM 4/8/02

4/10/2

0309

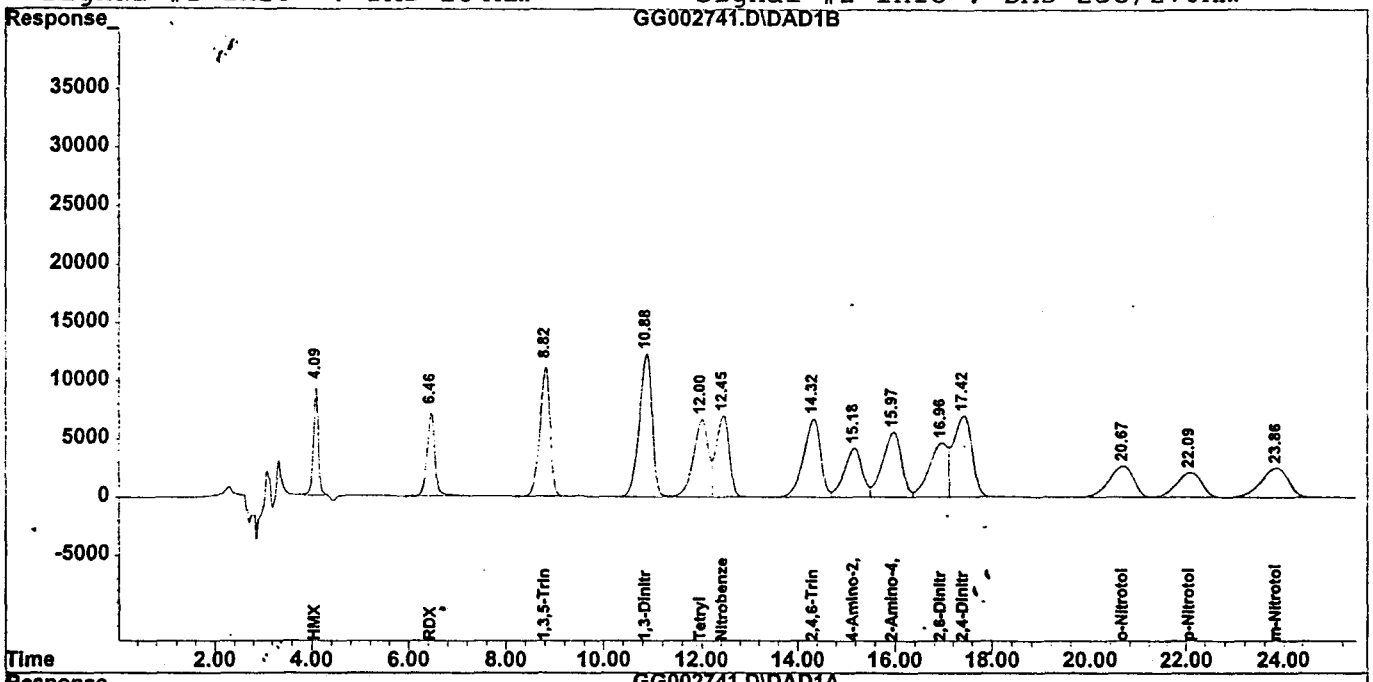
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

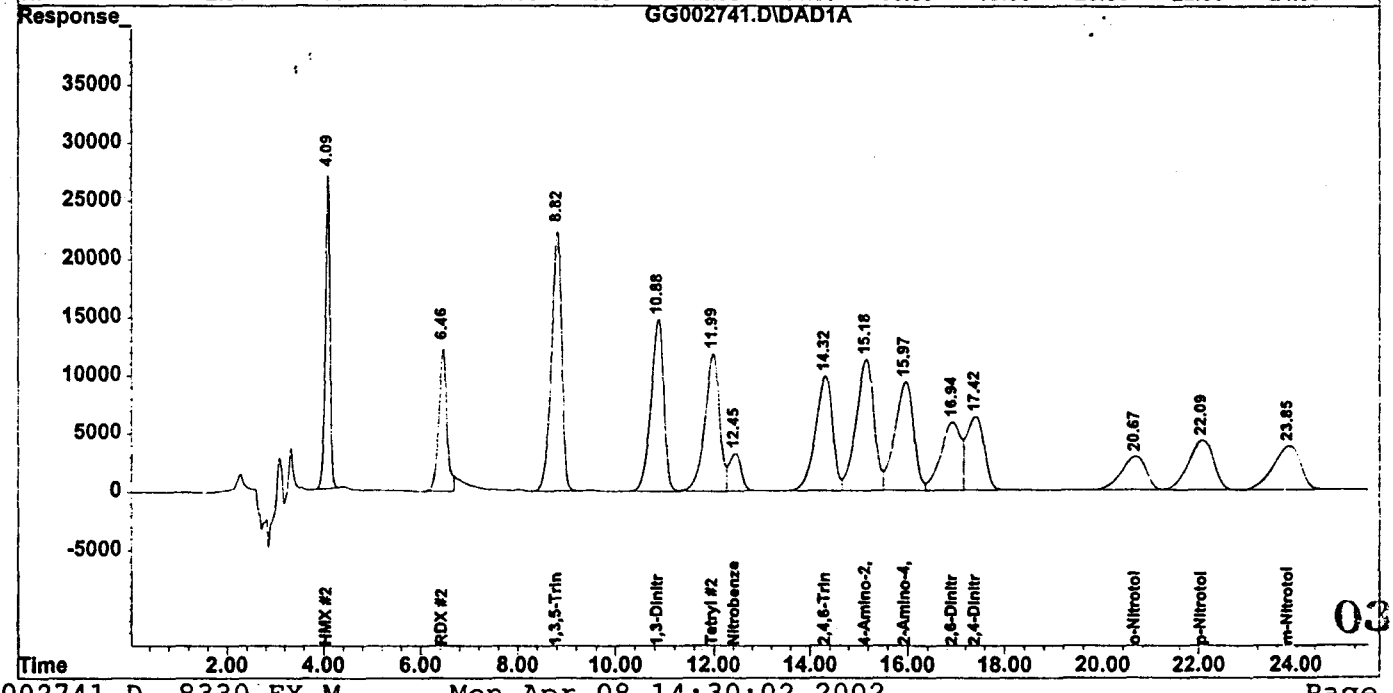
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002741.D\DAD1B.CH Vial: 9
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002741.D\DAD1A.CH
Acq On : 05-Apr-2002, 14:48:14 Operator: MIKEE
Sample : S1381 ICV Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 5 15:08 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 14:51:46 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0310

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002742.D\DAD1B.CH Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002742.D\DAD1A.CH
Acq On : 05-Apr-2002, 16:58:47 Operator: MIKEE
Sample : TNT ICV Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 8 14:08 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 14:51:46 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	250.000	Range	58 - 131	Recovery	=	0.00%#	0.00%#
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D. d	N.D. d
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D. d	N.D. d
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D. d	N.D. d
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D. d	N.D. d
8)	2,4,6-Trinitroto	14.33	14.33	1258616	1850032	179.473	178.946
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D. d	N.D. d
.0)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D. d	N.D. d
.1)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D. d	N.D. d
.2)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D. d	N.D. d
.3)	o-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d
.4)	p-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d
.5)	m-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d

ICV for TNT only

MH 4/8/02

0311

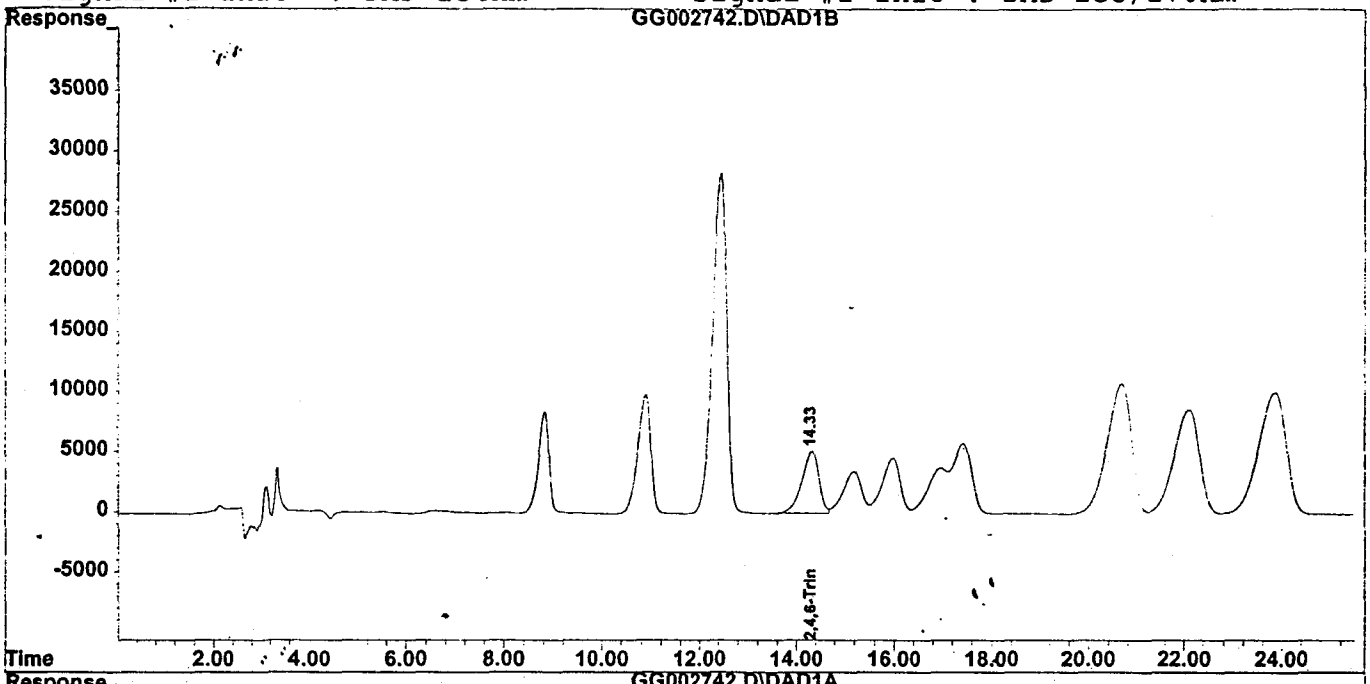
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

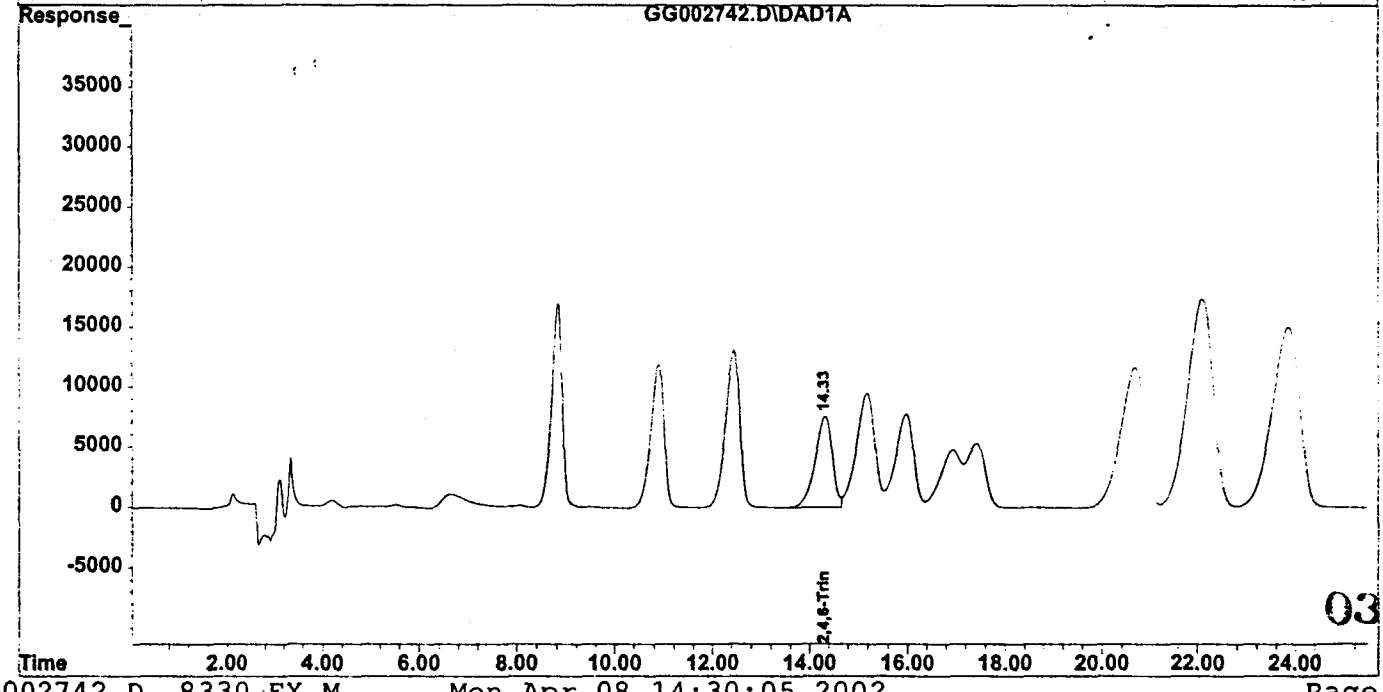
Quantitation Report

Signal #1 : G:\HPCHEM\1\DATA\0405EXP\GG002742.D\DAD1B.CH Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0405EXP\GG002742.D\DAD1A.CH
Acq On : 05-Apr-2002, 16:58:47 Operator: MIKEE
Sample : TNT ICV Inst : G1315B
Misc : op4917,ggg142,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 8 14:08 2002 Quant Results File: 8330_EX.RES

Quant Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 05 14:51:46 2002
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0312

CONTINUING CALIBRATION

SGC.09

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0410EXP\GG002842.D\DAD1B.CH Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\0410EXP\GG002842.D\DAD1A.CH
Acq On : 10-Apr-2002, 20:21:30 Operator: MIKEE
Sample : CC142-300 Inst : G1315B
Misc : op4943,ggg146,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 12 13:51:45 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	301.648	-0.5	102	0.00
2		RDX	300.000	286.121	4.6	101	0.00
3		1,3,5-Trinitrobenzene	300.000	294.905	1.7	101	0.00
4		1,3-Dinitrobenzene	300.000	294.007	2.0	100	0.00
5		Tetryl	300.000	296.823	1.1	102	0.00
6		Nitrobenzene	300.000	289.303	3.6	99	0.01
7	S	3,4-Dinitrotoluene	300.000	301.674	-0.6	102	0.02
8		2,4,6-Trinitrotoluene	300.000	293.138	2.3	100	0.01
9		4-Amino-2,6-Dinitrotoluene	300.000	295.653	1.4	99	0.01
10		2-Amino-4,6-Dinitrotoluene	300.000	294.494	1.8	99	0.00
11		2,6-Dinitrotoluene	300.000	292.572	2.5	99	0.00
12		2,4-Dinitrotoluene	300.000	296.454	1.2	101	0.01
13		o-Nitrotoluene	300.000	284.824	5.1	94	0.03
14		p-Nitrotoluene	300.000	284.595	5.1	102	0.02
15		m-Nitrotoluene	300.000	281.072	6.3	99	0.03

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	299.029	0.3	103	0.00
2		RDX	300.000	286.151	4.6	97	0.00
3		1,3,5-Trinitrobenzene	300.000	298.367	0.5	102	0.00
4		1,3-Dinitrobenzene	300.000	294.569	1.8	100	0.00
5		Tetryl	300.000	298.318	0.6	101	0.00
6		Nitrobenzene	300.000	281.536	6.2	99	0.01
7	S	3,4-Dinitrotoluene	300.000	301.012	-0.3	101	0.01
8		2,4,6-Trinitrotoluene	300.000	293.863	2.0	100	0.01
9		4-Amino-2,6-Dinitrotoluen	300.000	293.556	2.1	100	0.01
10		2-Amino-4,6-Dinitrotoluen	300.000	292.740	2.4	99	0.00
11		2,6-Dinitrotoluene	300.000	299.535	0.2	102	0.01
12		2,4-Dinitrotoluene	300.000	287.492	4.2	98	0.01
13		o-Nitrotoluene	300.000	287.842	4.1	96	0.02
14		p-Nitrotoluene	300.000	290.757	3.1	102	0.03
15		m-Nitrotoluene	300.000	284.784	5.1	100	0.04

Average % D = 2.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002737.D 8330_EX.M Fri Apr 12 14:13:01 2002

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0410EXP\GG002843.D\DAD1B.CH Vial: 21
Signal #2 : G:\HPCHEM\1\DATA\0410EXP\GG002843.D\DAD1A.CH
Acq On : 10-Apr-2002, 20:49:02 Operator: MIKEE
Sample : CC144-200 Inst : G1315B
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Apr 11 9:52 2002 Quant Results File: 8330PLUS.RES

Quant Method : C:\HPCHEM\2\METHODS\8330PLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 09 08:40:31 2002
Response via : Initial Calibration
DataAcq Meth : 8330_EX.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	250.000	Range	58 - 131	Recovery	=	0.00%#	0.00%#
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D. d	N.D. d
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D. d	N.D. d
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
0)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
1)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
2)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
3)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
4)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
5)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
6)	2,6-Diamino-4-Ni	3.93	3.93	1410308	2132181	203.199	199.363
)	2,4-Diamino-6-Ni	4.20	4.20	877733	1777089	200.895	187.734
)	2-Amino-6-Nitrot	8.03	8.03	946999	2229918	208.910	210.635
)	4-Amino-2-Nitrot	8.61	8.61	1119678	2469642	205.850	207.025
)	2-Amino-4-Nitrot	9.48	9.48	1628660	1795447	203.209	204.280

pmc 4/14/02

0325

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0410EXP\GG002849.D\DAD1B.CH Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\0410EXP\GG002849.D\DAD1A.CH
Acq On : 10-Apr-2002, 23:34:27 Operator: MIKEE
Sample : ECC142-300 Inst : G1315B
Misc : op4943,ggg146,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 12 13:51:45 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	305.224	-1.7	103	0.00
2	RDX	300.000	290.322	3.2	103	0.00
3	1,3,5-Trinitrobenzene	300.000	296.658	1.1	101	0.00
4	1,3-Dinitrobenzene	300.000	293.447	2.2	100	0.00
5	Tetryl	300.000	296.416	1.2	102	0.00
6	Nitrobenzene	300.000	288.267	3.9	99	0.00
7 S	3,4-Dinitrotoluene	300.000	299.975	0.0	102	0.00
8	2,4,6-Trinitrotoluene	300.000	292.711	2.4	100	0.00
9	4-Amino-2,6-Dinitrotoluene	300.000	295.107	1.6	99	0.00
10	2-Amino-4,6-Dinitrotoluene	300.000	293.059	2.3	98	0.00
11	2,6-Dinitrotoluene	300.000	289.931	3.4	98	0.00
12	2,4-Dinitrotoluene	300.000	295.448	1.5	101	0.00
13	o-Nitrotoluene	300.000	290.748	3.1	96	0.00
14	p-Nitrotoluene	300.000	293.388	2.2	105	0.00
15	m-Nitrotoluene	300.000	287.888	4.0	102	0.00

Signal #2

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
	HMX	300.000	298.870	0.4	103	0.00
	RDX	300.000	292.507	2.5	99	0.00
	1,3,5-Trinitrobenzene	300.000	298.737	0.4	102	0.00
	1,3-Dinitrobenzene	300.000	293.925	2.0	100	0.00
	Tetryl	300.000	298.159	0.6	101	0.00
	Nitrobenzene	300.000	277.898	7.4	97	0.00
S	3,4-Dinitrotoluene	300.000	299.417	0.2	101	0.00
	2,4,6-Trinitrotoluene	300.000	293.450	2.2	100	0.00
	4-Amino-2,6-Dinitrotoluen	300.000	293.417	2.2	100	0.00
	2-Amino-4,6-Dinitrotoluen	300.000	291.872	2.7	99	0.00
	2,6-Dinitrotoluene	300.000	298.397	0.5	102	0.00
	2,4-Dinitrotoluene	300.000	286.376	4.5	98	0.00
	o-Nitrotoluene	300.000	290.532	3.2	96	0.00
	p-Nitrotoluene	300.000	292.090	2.6	102	0.00
	m-Nitrotoluene	300.000	288.209	3.9	102	0.00

Average % D = 2.3

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002737.D 8330_EX.M Fri Apr 12 14:13:33 2002

SEQUENCE LOGS AND BENCH SHEETS

SGC.10

Partial Sequence: C:\HPCHEM\1\SEQUENCE\0410EXP.S GGG146

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8330_EX	GG002822	01:01		SOLVENT
No	2	Vial 2	8330_EX	GG002823	02:01		CC142-200
No	3	Vial 3	8330_EX	GG002824	03:01		OP4943-BS
No	4	Vial 4	8330_EX	GG002825	04:01		OP4943-MB
No	5	Vial 5	8330_EX	GG002826	05:01		F12790-1
No	6	Vial 6	8330_EX	GG002827	06:01		F12790-2
No	7	Vial 7	8330_EX	GG002828	07:01		F12790-3
No	8	Vial 8	8330_EX	GG002829	08:01		F12790-4
No	9	Vial 9	8330_EX	GG002830	09:01		F12790-5
No	10	Vial 10	8330_EX	GG002831	10:01		F12790-6
No	11	Vial 11	8330_EX	GG002832	11:01		F12790-7
No	12	Vial 12	8330_EX	GG002833	12:01		CC142-300
No	13	Vial 13	8330_EX	GG002834	13:01		F12797-1
No	14	Vial 14	8330_EX	GG002835	14:01		F12797-2
No	15	Vial 15	8330_EX	GG002836	15:01		F12797-3
No	16	Vial 16	8330_EX	GG002837	16:01		F12797-4
No	17	Vial 17	8330_EX	GG002838	17:01		OP4943-MS
No	18	Vial 18	8330_EX	GG002839	18:01		OP4943-MSD
No	19	Vial 19	8330_EX	GG002840	19:01		F12806-1
No	20	Vial 20	8330_EX	GG002841	20:01		F12806-2
No	21	Vial 12	8330_EX	GG002842	21:01		CC142-300
No	22	Vial 21	8330_EX	GG002843	22:01		CC144-200
No	23	Vial 22	8330_EX	GG002844	23:01		BS 1
No	24	Vial 23	8330_EX	GG002845	24:01		BS 2
No	25	Vial 24	8330_EX	GG002846	25:01		BS 3
No	26	Vial 25	8330_EX	GG002847	26:01		BS 4
No	27	Vial 26	8330_EX	GG002848	27:01		ECC144-300
No	28	Vial 12	8330_EX	GG002849	28:01		ECC142-300

HPLC ANALYSIS LOG

DATE: 4/10/02	METHODS: 8330	ANALYST: M. Eger
COLUMN TYPE: ODS	METHOD FILE: 8330EX	RUN BATCH: GGG 146
INSTRUMENT: HPLC 3	CALIB. DATE: ~~4/10/02~~ ~~4/8/02~~ 4/5/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION -FACTOR	RUN OK	COMMENTS
GG002822	1	SOLVENT	8330						✓	Rinse
23	2	CC142-200		S1500	—	—	—	3:5	✓	PASSED
24	3	OP4943-BS		W	OP4943	1000	10.0	1X	✓	✓
25	4	" -MB				1000			✓	✓ ND
26	5	F12790-1				560			✓	ND
27	6	-2				960			✓	ND
28	7	-3				920			✓	ND
29	8	-4				780			✓	ND
30	9	-5				800			✓	ND
31	10	-6				740			✓	ND
32	11	-7				800			X	RR-Low Surr.
33	12	CC142-300		S1500	—	—	—	3:5	✓	PASSED
34	13	F12797-1		W	OP4943	940	10.0	1X	✓	✓ C
35	14	-2				960			✓	TRACE C
36	15	-3				950			✓	RDX ✓ C
37	16	-4				880			✓	RDX, 13DNB C
38	17	OP4943-MS				440			✓	✓
39	18	" -MSD				440			✓	✓
40	19	F12806-1				1040			✓	ND
41	20	-2				1020			✓	ND
42	12	CC142-300		S1500	—	—	—	3:5	✓	PASSED
43	21	~~BS + CC144-200~~		~~S1512~~	~~W~~	~~OP4943~~	~~1000~~	~~10.0~~ 2:5	✓	PASSED (8330PWS)
44	22	ZBS1		W	OP4943	1000	10.0	1X	✓	✓ Int. Demo
45	23	2							✓	✓
46	24	3							✓	✓

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M.R. Eger

LC1_LOG.xls NF rev. 9/01

HPLC ANALYSIS LOG

DATE: ~~4/8/02~~ 4/10/02	METHODS: 8330	ANALYST: M. Eger
COLUMN TYPE: ODS	METHOD FILE: 8330.tx	RUN BATCH: GGS 146
INSTRUMENT: HPLC 3	CALIB. DATE: ~~4/8/02~~ 4/5/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG002847	25	BS 4	8330	W	OP 4443	1000	10.0	1x	✓	✓ I.DEMO
48	26	ECC 144-300		S1512				3:5	✓	passed (8330plus)
49	12	ECC142-300		S1500				3:5	✓	passed

MRE

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Eger

LC1_LOG.xls NF rev. 9/01

Partial Sequence: C:\HPCHEM\1\SEQUENCE\0405EXP.S GGG 142

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8330_EX	GG002732	01:01		CC142-500
No	2	Vial 2	8330_EX	GG002733	02:01		SOLVENT
No	3	Vial 3	8330_EX	GG002734	03:01		IC142-20
No	4	Vial 4	8330_EX	GG002735	04:01		IC142-100
No	5	Vial 5	8330_EX	GG002736	05:01		IC142-200
No	6	Vial 6	8330_EX	GG002737	06:01		ICC142-300
No	7	Vial 7	8330_EX	GG002738	07:01		IC142-400
No	8	Vial 8	8330_EX	GG002739	08:01		IC142-500
No	9	Vial 3	8330_EX	GG002740	09:01		IC142-20
No	10	Vial 9	8330_EX	GG002741	10:01		S1381 ICV
No	11	Vial 10	8330_EX	GG002742	11:01		TNT ICV
No	12	Vial 11	8330_EX	GG002743	12:01		OP4917-BS
No	13	Vial 12	8330_EX	GG002744	13:01		OP4917-MB
No	14	Vial 13	8330_EX	GG002745	14:01		F12769-1
No	15	Vial 14	8330_EX	GG002746	15:01		F12769-2
No	16	Vial 15	8330_EX	GG002747	16:01		F12769-3
No	17	Vial 16	8330_EX	GG002748	17:01		F12767-5
No	18	Vial 17	8330_EX	GG002749	18:01		OP4917-MS
No	19	Vial 18	8330_EX	GG002750	19:01		OP4917-MSD
No	20	Vial 19	8330_EX	GG002751	20:01		F12767-6
No	21	Vial 6	8330_EX	GG002752	21:01		CC142-300
No	22	Vial 20	8330_EX	GG002753	22:01		MB MDL WATER
No	23	Vial 21	8330_EX	GG002754	23:01		MDL 1
No	24	Vial 22	8330_EX	GG002755	24:01		MDL 2
No	25	Vial 23	8330_EX	GG002756	25:01		MDL 3
No	26	Vial 24	8330_EX	GG002757	26:01		MDL 4
No	27	Vial 25	8330_EX	GG002758	27:01		MDL 5
No	28	Vial 26	8330_EX	GG002759	28:01		MDL 6
No	29	Vial 27	8330_EX	GG002760	29:01		MDL 7
No	30	Vial 6	8330_EX	GG002761	30:01		ECC142-300

HPLC ANALYSIS LOG

DATE: 4/5/02	METHODS: 8330	ANALYST: M. Eger
COLUMN TYPE: ODS	METHOD FILE: 8330-EPA	RUN BATCH: GGG142
INSTRUMENT: HPLC 3	CALIB. DATE: 4/5/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG002732	1	CC142-500	8330	S1500	—	—	—	1X	✓	R.T. only
33	2	SOLVENT							✓	Rinse
34	3	IC142-20		S1500	—	—	—	25X	✓	Bad Int RR
35	4	IC142-100						5X	✓	✓
36	5	IC142-200						2:5	✓	✓
37	6	ICC142-300						3:5	✓	✓
38	7	IC142-400						4:5	✓	✓
39	8	IC142-500						1X	✓	✓
40	9/3	IC142-20						~~5X~~ 25X	✓	✓
41	109	ICV 8330		S1381				50X	✓	✓ (TNT high)
42	110	ICV TNT		1315A	—	—	—	5000X	✓	TNT ✓
43	111	Op4917-BS		W	Op4917	1000	10.0	1X	✓	✓
44	112	1 -MB				1000			✓	✓ ND
45	113	F12769-1				960			✓	ND
46	114	1 -2				940			✓	
47	115	1 -3				920			✓	
48	116	F12767-5				940			✓	
49	117	Op4917-MS				480			✓	✓
50	118	1 -MSD				480			✓	✓
51	119	F12767-6				930			✓	ND
52	6	CC142-300		S1500	—	—	—	3:5	✓	passed
53	20	MDL MB		W		1000	10.0	1X	✓	✓ ND
54	121	MDL 1							✓	✓
55	122	1 2							✓	✓
56	123	1 3							✓	✓

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Eger

LC1 LOG.xls NF rev. 9/01

HPLC ANALYSIS LOG

DATE: 4/5/02	METHODS: 8330	ANALYST: M. Egan
COLUMN TYPE: ODS,	METHOD FILE: 8330_EX	RUN BATCH: GGB7142
INSTRUMENT: HPLC 3	CALIB. DATE: 4/5/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG002757	~~25~~ 24	MDL -4	8330	W		1000	10.0	1x	✓	—
58	~~26~~ 25	-5							—	—
59	~~27~~ 26	-6							—	—
60	~~28~~ 27	-7							—	—
61	6	GCC142-300		S1500				3.5	✓	passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Egan

LC1_LOG.xls NF rev. 9/01

LIQUID SAMPLE PREP REPORT

Date: 04-09-02 Method*: 8330 Batch#: OP 4943

Batch Started On: 04-09-02 Prior Number Of Samples In Batch: Ø Analyst: FS

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 4943 MB	X	1000	6	NA	250µl		10.0ml	
OP 4943 BS	X	1000	↓	↓	↓	250µl	↓	
F12797-1	2	940	↓	↓	↓	↓	↓	
-2	1	960	↓	↓	↓	↓	↓	
-3	1	950	↓	↓	↓	↓	↓	
-4	1	880	↓	↓	↓	↓	↓	MS/MSD
F12806-1	5	1040	↓	↓	↓	↓	↓	
-2	5	1020	↓	↓	↓	↓	↓	
F12790-1	1	560	↓	↓	↓	↓	↓	
-2	1	960	↓	↓	↓	↓	↓	
-3	1	920	↓	↓	↓	↓	↓	
-4	2	780	↓	↓	↓	↓	↓	
-5	1	800	↓	↓	↓	↓	↓	
-6	1	740	↓	↓	↓	↓	↓	
-7	1	800	↓	↓	↓	↓	↓	
				04-09-02				
						FS		
OP 4943 MS	2	440	6	NA	250µl	250µl	10.0ml	F12797-4
OP 4943 MSD	2	440	↓	↓	↓	↓	↓	↓
OP DUP								

FS Surrogate ID: E1004 Conc: 10ppm Exp. Date: 7-28-02 Bath Temp.: _____
witness: M.R.
FS Spike ID: E1026 Conc: 10ppm Exp. Date: 7-18-02 Bath Temp2.: _____

CH2CL2 Lot # NA Hexane Lot # NA Na2SO4 Lot# NA

Acetonitrile Lot # CD477 Methanol Lot # NA Acetone Lot# NA

Reagent # _____ Reagent # _____ Reagent # _____

Comments: _____

Relinquished By: Fouad Date: 4-9-02

Accepted By: M.R. Date: 4/9/02

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8332 prepped by 3540A

SECTION 10

INITIAL & CONTINUING CALIBRATION BLANK SUMMARY

MET.02

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2765 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	9.44	-9.5	<200 (a)	90.5	<200<(b)	-2.1	<200 (b)	-6.9	<200 (b)
Antimony	0.0050	2.56	-0.65	<5.0	2.7	<5.0	2.0	<5.0	3.2	<5.0
Arsenic	0.010	3.15	-1.8	<10	2.7	<10	-2.9	<10	-2.0	<10
Barium	200	.94	-0.67	<200	0.59	<200	0.63	<200	0.69	<200
Beryllium	5.0	.22	-0.80	<5.0	0.59	<5.0	0.29	<5.0	0.52	<5.0
Cadmium	5.0	.27	-0.87	<5.0	0.50	<5.0	0.60	<5.0	0.31	<5.0
Calcium	1000	10.2	-14	<1000	73.0	<1000	7.5	<1000	18.7	<1000
Chromium	10	.35	-0.79	<10	0.72	<10	0.21	<10	0.46	<10
Cobalt	50	.55	-1.0	<50	0.54	<50	0.66	<50	0.50	<50
Copper	25	.71	-0.68	<25	-1.0	<25	-1.5	<25	-1.1	<25
Iron	300	9.02	-24	<300	-24	<300	-45	<300<	-41	<300<
Lead	0.0050	1.16	0.65	<5.0	4.5	<5.0<	2.2	<5.0	3.1	<5.0
Magnesium	5000	25.5	-15	<5000	64.4	<5000	7.8	<5000	12.4	<5000
Manganese	15	.26	-0.86	<15	-0.58	<15	-0.89	<15	-0.85	<15
Molybdenum	50	1.01	anr							
Nickel	40	.8	-1.2	<40	1.1	<40	0.26	<40	0.76	<40
Potassium	5000	49	634	<5000<	672	<5000<	669	<5000<	664	<5000<
Selenium	0.010	2.5	-2.1	<10	2.7	<10	4.0	<10	2.2	<10
Silver	10	.59	-0.55	<10	0.10	<10	-0.30	<10	0.15	<10
Sodium	5000	173	-36	<5000	-150	<5000	-21	<5000	65.5	<5000
Thallium	0.010	2.07	-2.2	<10	4.8	<10	2.9	<10	3.4	<10
Tin	50	1.03								
Vanadium	50	.58	-0.80	<50	0.61	<50	0.65	<50	0.66	<50
Zinc	20	.36	-1.0	<20	-0.93	<20	-1.5	<20	-1.6	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) "ICB Results" units in ug/L.
(b) "CCB Results" units in ug/L.

C352

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2765 Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	9.44	-12	<200 (a)	-0.42	<200 (a)	-11	<200 (a)	-2.9	<200 (a)
Antimony	0.0050	2.56	-1.3	<5.0	0.62	<5.0	0.92	<5.0	2.3	<5.0
Arsenic	0.010	3.15	-0.13	<10	-1.6	<10	-4.5	<10	-2.7	<10
Barium	200	.94	1.2	<200	0.89	<200	0.81	<200	1.3	<200
Beryllium	5.0	.22	0.28	<5.0	0.45	<5.0	0.40	<5.0	1.3	<5.0<
Cadmium	5.0	.27	0.46	<5.0	0.39	<5.0	0.25	<5.0	0.93	<5.0
Calcium	1000	10.2	14.7	<1000	13.9	<1000	13.1	<1000	21.4	<1000
Chromium	10	.35	0.27	<10	0.60	<10	0.47	<10	1.3	<10<
Cobalt	50	.55	0.70	<50	0.88	<50	1.0	<50	1.1	<50
Copper	25	.71	-0.85	<25	-1.1	<25	-0.87	<25	-0.52	<25
Iron	300	9.02	-13	<300	5.6	<300	-13	<300	-17	<300
Lead	0.0050	1.16	2.0	<5.0	2.6	<5.0	2.4	<5.0	2.9	<5.0
Magnesium	5000	25.5	12.4	<5000	13.7	<5000	14.4	<5000	22.3	<5000
Manganese	15	.26	-0.14	<15	-0.17	<15	-0.050	<15	-0.13	<15
Molybdenum	50	1.01	anr							
Nickel	40	.8	0.080	<40	0.39	<40	0.70	<40	1.3	<40
Potassium	5000	49	654	<5000<	669	<5000<	653	<5000<	685	<5000<
Selenium	0.010	2.5	1.7	<10	3.9	<10	3.9	<10	1.6	<10
Silver	10	.59	-0.45	<10	0.030	<10	-0.47	<10	0.26	<10
Sodium	5000	173	-19	<5000	-7.4	<5000	42.8	<5000	73.9	<5000
Thallium	0.010	2.07	4.4	<10	2.8	<10	1.9	<10	5.9	<10
Tin	50	1.03								
Vanadium	50	.58	0.67	<50	0.48	<50	0.56	<50	1.5	<50
Zinc	20	.36	-1.2	<20	1.8	<20	-1.1	<20	-0.80	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CCB Results" units in ug/L.

C353

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2765 Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final
Aluminum	200	9.44	-5.9	<200 (a)	26.6	<200 (a)
Antimony	0.0050	2.56	2.0	<5.0	0.24	<5.0
Arsenic	0.010	3.15	-2.0	<10	-0.86	<10
Barium	200	.94	0.75	<200	0.97	<200
Beryllium	5.0	.22	0.59	<5.0	0.61	<5.0
Cadmium	5.0	.27	0.39	<5.0	0.55	<5.0
Calcium	1000	10.2	25.9	<1000	38.9	<1000
Chromium	10	.35	0.50	<10	0.83	<10
Cobalt	50	.55	0.43	<50	0.63	<50
Copper	25	.71	-1.6	<25	-0.85	<25
Iron	300	9.02	-25	<300	2.9	<300
Lead	0.0050	1.16	2.4	<5.0	5.0	<5.0<
Magnesium	5000	25.5	14.6	<5000	12.9	<5000
Manganese	15	.26	-0.67	<15	-0.57	<15
Molybdenum	50	1.01	anr			
Nickel	40	.8	0.48	<40	1.0	<40
Potassium	5000	49	649	<5000<	676	<5000<
Selenium	0.010	2.5	2.3	<10	3.8	<10
Silver	10	.59	-0.49	<10	-0.040	<10
Sodium	5000	173	1.8	<5000	35.3	<5000
Thallium	0.010	2.07	0.59	<10	10.0	<10<
Tin	50	1.03				
Vanadium	50	.58	0.74	<50	1.0	<50
Zinc	20	.36	0.52	<20	-0.55	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CCB Results" units in ug/L.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC
QC Limits: result < RL

Date Analyzed: 04/15/02
Run ID: MA2767

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	3.0	<200	50.5	<200<	26.2	<200<
Antimony	0.0050	1.52	0.50	<5.0	1.1	<5.0	1.4	<5.0
Arsenic	0.010	2.83	-1.2	<10	-0.27	<10	2.1	<10
Barium	200	.49	0.15	<200	-0.11	<200	0.010	<200
Beryllium	5.0	.26	-0.17	<5.0	-0.71	<5.0	-0.99	<5.0
Cadmium	5.0	.26	0.19	<5.0	-0.21	<5.0	-0.19	<5.0
Calcium	1000	3.82	2.5	<1000	23.0	<1000	1.5	<1000
Chromium	10	.43	0.55	<10	0.57	<10	0.18	<10
Cobalt	50	.5	0.53	<50	0.40	<50	0.16	<50
Copper	25	.44	0.99	<25	-1.1	<25	-1.2	<25
Iron	300	7.11	14.4	<300	-30	<300	-42	<300<
Lead	0.0050	1.22	2.2	<5.0	2.5	<5.0	1.2	<5.0
Magnesium	5000	9.88	9.5	<5000	28.1	<5000	3.1	<5000
Manganese	15	.16	0.14	<15	-1.5	<15	-1.5	<15
Molybdenum	50	.75						
Nickel	40	1.08	1.3	<40	0.80	<40	0.62	<40
Potassium	5000	13.9	654	<5000<	642	<5000<	656	<5000<
Selenium	0.010	1.98	0.75	<10	1.6	<10	4.2	<10
Silver	10	.55	-1.4	<10	-0.45	<10	-1.2	<10
Sodium	5000	145	412	<5000	349	<5000	351	<5000
Thallium	0.010	1.49	2.2	<10	1.5	<10	2.8	<10
Tin	50	2.18						
Vanadium	50	.47	0.78	<50	0.49	<50	0.44	<50
Zinc	20	.59	-0.53	<20	-0.66	<20	-0.75	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA2779 Units: ug/l

Metal	RL	IDL	ICB raw	ICB final	CCB raw	CCB final	CCB raw	CCB final	CCB raw	CCB final
Mercury	1.0	.06	-0.010	<1.0	-0.010	<1.0	-0.010	<1.0	-0.010	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

C356

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA2779 Units: ug/l

Metal	RL	IDL	CCB raw	final
Mercury	1.0	.06	-0.010	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

0357

CALIBRATION CHECK STANDARDS SUMMARY

MET.03

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2765 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40000(a)	100.0	40	40900(b)	102.3	40	40300(b)	100.8
Antimony	2.0	2060	103.0	2.0	2080	104.0	2.0	2080	104.0
Arsenic	2.0	2000	100.0	2.0	2020	101.0	2.0	2030	101.5
Barium	2.0	2010	100.5	2.0	2040	102.0	2.0	2030	101.5
Beryllium	2.0	2060	103.0	2.0	2060	103.0	2.0	2060	103.0
Cadmium	2.0	1990	99.5	2.0	1990	99.5	2.0	1990	99.5
Calcium	40	42100	105.3	40	42300	105.8	40	42000	105.0
Chromium	2.0	2030	101.5	2.0	2050	102.5	2.0	2040	102.0
Cobalt	2.0	2020	101.0	2.0	2030	101.5	2.0	2030	101.5
Copper	2.0	2030	101.5	2.0	2050	102.5	2.0	2050	102.5
Iron	40	42500	106.3	40	42700	106.8	40	42400	106.0
Lead	2.0	2040	102.0	2.0	2040	102.0	2.0	2030	101.5
Magnesium	40	41600	104.0	40	42000	105.0	40	41800	104.5
Manganese	2.0	2100	105.0	2.0	2110	105.5	2.0	2100	105.0
Molybdenum	anr								
Nickel	2.0	2040	102.0	2.0	2050	102.5	2.0	2040	102.0
Potassium	40	39500	98.8	40	39900	99.8	40	39900	99.8
Selenium	2.0	2060	103.0	2.0	2060	103.0	2.0	2080	104.0
Silver	0.25	249	99.6	0.25	251	100.4	0.25	250	100.0
Sodium	40	38100	95.3	40	38600	96.5	40	38800	97.0
Thallium	2.0	2000	100.0	2.0	2000	100.0	2.0	2010	100.5
Tin									
Vanadium	2.0	2050	102.5	2.0	2060	103.0	2.0	2050	102.5
Zinc	2.0	2060	103.0	2.0	2060	103.0	2.0	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) "ICV Results" units in ug/L.
(b) "CCV Results" units in ug/L.

0359

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2765 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40600(a)	101.5	40	40400(a)	101.0	40	40700(a)	101.8
Antimony	2.0	2100	105.0	2.0	2080	104.0	2.0	2090	104.5
Arsenic	2.0	2050	102.5	2.0	2030	101.5	2.0	2030	101.5
Barium	2.0	2040	102.0	2.0	1980	99.0	2.0	1990	99.5
Beryllium	2.0	2090	104.5	2.0	2100	105.0	2.0	2100	105.0
Cadmium	2.0	2020	101.0	2.0	2040	102.0	2.0	2030	101.5
Calcium	40	42900	107.3	40	42600	106.5	40	42500	106.3
Chromium	2.0	2070	103.5	2.0	2070	103.5	2.0	2070	103.5
Cobalt	2.0	2060	103.0	2.0	2040	102.0	2.0	2040	102.0
Copper	2.0	2060	103.0	2.0	2020	101.0	2.0	2030	101.5
Iron	40	43100	107.8	40	43100	107.8	40	43100	107.8
Lead	2.0	2070	103.5	2.0	2070	103.5	2.0	2070	103.5
Magnesium	40	42400	106.0	40	41600	104.0	40	41800	104.5
Manganese	2.0	2130	106.5	2.0	2110	105.5	2.0	2110	105.5
Molybdenum	anr								
Nickel	2.0	2080	104.0	2.0	2070	103.5	2.0	2070	103.5
Potassium	40	40000	100.0	40	39400	98.5	40	39600	99.0
Selenium	2.0	2110	105.5	2.0	2080	104.0	2.0	2090	104.5
Silver	0.25	253	101.2	0.25	252	100.8	0.25	254	101.6
Sodium	40	39000	97.5	40	38300	95.8	40	38700	96.8
Thallium	2.0	2030	101.5	2.0	2040	102.0	2.0	2020	101.0
Tin									
Vanadium	2.0	2080	104.0	2.0	2060	103.0	2.0	2060	103.0
Zinc	2.0	2110	105.5	2.0	2120	106.0	2.0	2110	105.5

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CCV Results" units in ug/L.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2765 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40400(a)	101.0	40	40000(a)	100.0	40	40400(a)	101.0
Antimony	2.0	2080	104.0	2.0	2090	104.5	2.0	2100	105.0
Arsenic	2.0	2040	102.0	2.0	2080	104.0	2.0	2020	101.0
Barium	2.0	2010	100.5	2.0	1990	99.5	2.0	2070	103.5
Beryllium	2.0	2070	103.5	2.0	2110	105.5	2.0	2040	102.0
Cadmium	2.0	1990	99.5	2.0	2050	102.5	2.0	1960	98.0
Calcium	40	42800	107.0	40	43000	107.5	40	42500	106.3
Chromium	2.0	2090	104.5	2.0	2130	106.5	2.0	2070	103.5
Cobalt	2.0	2020	101.0	2.0	2060	103.0	2.0	2010	100.5
Copper	2.0	1980	99.0	2.0	1950	97.5	2.0	2020	101.0
Iron	40	42100	105.3	40	42900	107.3	40	41900	104.8
Lead	2.0	2070	103.5	2.0	2110	105.5	2.0	2040	102.0
Magnesium	40	41500	103.8	40	42000	105.0	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2120	106.0	2.0	2070	103.5
Molybdenum	anr								
Nickel	2.0	2070	103.5	2.0	2130	106.5	2.0	2060	103.0
Potassium	40	39600	99.0	40	38700	96.8	40	40100	100.3
Selenium	2.0	2120	106.0	2.0	2150	107.5	2.0	2080	104.0
Silver	0.25	247	98.8	0.25	246	98.4	0.25	248	99.2
Sodium	40	37800	94.5	40	37600	94.0	40	38100	95.3
Thallium	2.0	2020	101.0	2.0	2050	102.5	2.0	2020	101.0
Tin									
Vanadium	2.0	2070	103.5	2.0	2100	105.0	2.0	2100	105.0
Zinc	2.0	2120	106.0	2.0	2110	105.5	2.0	2050	102.5

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CCV Results" units in ug/L.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2765 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	40	40400(a)	101.0
Antimony	2.0	2080	104.0
Arsenic	2.0	1980	99.0
Barium	2.0	2060	103.0
Beryllium	2.0	2010	100.5
Cadmium	2.0	1920	96.0
Calcium	40	41900	104.8
Chromium	2.0	2040	102.0
Cobalt	2.0	1980	99.0
Copper	2.0	2000	100.0
Iron	40	41400	103.5
Lead	2.0	2020	101.0
Magnesium	40	41400	103.5
Manganese	2.0	2050	102.5
Molybdenum	anr		
Nickel	2.0	2030	101.5
Potassium	40	40200	100.5
Selenium	2.0	2060	103.0
Silver	0.25	247	98.8
Sodium	40	38000	95.0
Thallium	2.0	1980	99.0
Tin			
Vanadium	2.0	2070	103.5
Zinc	2.0	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CCV Results" units in ug/L.

0362

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2767 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40000	100.0	40	39600	99.0	40	38300	95.8
Antimony	2.0	2090	104.5	2.0	2060	103.0	2.0	2030	101.5
Arsenic	2.0	2030	101.5	2.0	2000	100.0	2.0	1980	99.0
Barium	2.0	2050	102.5	2.0	2010	100.5	2.0	1940	97.0
Beryllium	2.0	2030	101.5	2.0	2000	100.0	2.0	1980	99.0
Cadmium	2.0	1960	98.0	2.0	1930	96.5	2.0	1930	96.5
Calcium	40	42100	105.3	40	41300	103.3	40	40800	102.0
Chromium	2.0	2060	103.0	2.0	2040	102.0	2.0	2010	100.5
Cobalt	2.0	2010	100.5	2.0	1990	99.5	2.0	1970	98.5
Copper	2.0	2000	100.0	2.0	1970	98.5	2.0	1910	95.5
Iron	40	41200	103.0	40	40600	101.5	40	40100	100.3
Lead	2.0	2030	101.5	2.0	2030	101.5	2.0	1980	99.0
Magnesium	40	41500	103.8	40	40900	102.3	40	39900	99.8
Manganese	2.0	2070	103.5	2.0	2050	102.5	2.0	2010	100.5
Molybdenum									
Nickel	2.0	2060	103.0	2.0	2030	101.5	2.0	2010	100.5
Potassium	40	40000	100.0	40	39600	99.0	40	38500	96.3
Selenium	2.0	2060	103.0	2.0	2070	103.5	2.0	2050	102.5
Silver	0.25	248	99.2	0.25	244	97.6	0.25	240	96.0
Sodium	40	37700	94.3	40	37000	92.5	40	35900	90.0
Thallium	2.0	2000	100.0	2.0	1980	99.0	2.0	1960	98.0
Tin									
Vanadium	2.0	2070	103.5	2.0	2040	102.0	2.0	2000	100.0
Zinc	2.0	2080	104.0	2.0	2060	103.0	2.0	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

0363

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2779 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	3.1	103.3	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2779 Units: ug/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	3.1	103.3	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

0365

LOW CALIBRATION CHECK STANDARDS SUMMARY

MET.04

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2765 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec	CRI Results	% Rec
Aluminum	0.40				409 (a)	102.3
Antimony	0.010				9.4	94.0
Arsenic	0.020				23.0	115.0
Barium	0.40				416	104.0
Beryllium	0.010				10.6	106.0
Cadmium	0.010				10	100.0
Calcium	2.0				2140	107.0
Chromium	0.020				21.3	106.5
Cobalt	0.10				103	103.0
Copper	0.050				49.4	98.8
Iron	0.60				631	105.2
Lead	0.010				13.0	130.0
Magnesium	10				10000	100.0
Manganese	0.030				31.6	105.3
Molybdenum	0.10					
Nickel	0.080				89.2	111.5
Potassium	10				9540	95.4
Selenium	0.010				12.7	127.0
Silver	0.020				19.4	97.0
Sodium	10				8470	84.7
Thallium	0.020				18.8	94.0
Tin	0.10					
Vanadium	0.10				106	106.0
Zinc	0.040				43.1	107.8

(*) Outside of QC limits
(anr) Analyte not requested
(a) "CRI Results in ug/L.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2767 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		410	102.5
Antimony	0.010		10.6	106.0
Arsenic	0.020		18.8	94.0
Barium	0.40		426	106.5
Beryllium	0.010		10.3	103.0
Cadmium	0.010		10	100.0
Calcium	2.0		2170	108.5
Chromium	0.020		22.3	111.5
Cobalt	0.10		106	106.0
Copper	0.050		51.4	102.8
Iron	0.60		659	109.8
Lead	0.010		13.7	137.0
Magnesium	10		10200	102.0
Manganese	0.030		32.3	107.7
Molybdenum	0.10			
Nickel	0.080		91.4	114.3
Potassium	10		9850	98.5
Selenium	0.010		10.7	107.0
Silver	0.020		19.9	99.5
Sodium	10		8730	87.3
Thallium	0.020		16.8	84.0
Tin	0.10			
Vanadium	0.10		109	109.0
Zinc	0.040		44.6	111.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
QC Limits: to % Recovery Run ID: MA2779 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.50		0.58	116.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY

MET.05

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2765 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500	524000(a	104.8	511000(b	102.2
Antimony		1.0	-3.1		1070	107.0
Arsenic		1.0	0.020		1030	103.0
Barium		0.50	1.1		532	106.4
Beryllium		0.50	-1.3		516	103.2
Cadmium		1.0	-2.5		904	90.4
Calcium	500	500	479000	95.8	462000	92.4
Chromium		0.50	3.2		512	102.4
Cobalt		0.50	0.64		510	102.0
Copper		0.50	-17		579	115.8
Iron	200	200	202000	101.0	194000	97.0
Lead		1.0	-0.67		967	96.7
Magnesium	500	500	540000	108.0	522000	104.4
Manganese		0.50	-0.60		546	109.2
Molybdenum		1.0	-1.7		1000	100.0
Nickel		1.0	-1.0		959	95.9
Potassium			671		3750	
Selenium		1.0	-1.6		1030	103.0
Silver		1.0	-0.35		1060	106.0
Sodium			53.6		2370	
Thallium		1.0	-1.0		980	98.0
Tin		1.0	-6.8		1010	101.0
Vanadium		0.50	4.4		504	100.8
Zinc		1.0	-0.94		910	91.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) "ICSA Results" units in ug/L.
(b) "ICSAB Results" units in ug/L.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2767 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500	520000	104.0	501000	100.2
Antimony		1.0	-0.45		1090	109.0
Arsenic		1.0	0.080		1030	103.0
Barium		0.50	1.3		529	105.8
Beryllium		0.50	-1.8		515	103.0
Cadmium		1.0	-1.0		907	90.7
Calcium	500	500	474000	94.8	452000	90.4
Chromium		0.50	3.3		511	102.2
Cobalt		0.50	0.85		515	103.0
Copper		0.50	-16		583	116.6
Iron	200	200	202000	101.0	191000	95.5
Lead		1.0	2.2		972	97.2
Magnesium	500	500	539000	107.8	515000	103.0
Manganese		0.50	-0.66		547	109.4
Molybdenum		1.0	-4.5		973	97.3
Nickel		1.0	0.11		956	95.6
Potassium			671		3800	
Selenium		1.0	2.6		1040	104.0
Silver		1.0	-1.3		1070	107.0
Sodium			264		2710	
Thallium		1.0	1.7		979	97.9
Tin		1.0	-10		998	99.8
Vanadium		0.50	2.2		503	100.6
Zinc		1.0	-1.8		919	91.9

(*) Outside of QC limits
(anr) Analyte not requested

METHOD BLANK SUMMARY

MET.06

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4327
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/09/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.06	-0.010	<1.0

Associated samples MP4327: F12806-1, F12806-2, F12806-1A, F12806-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4329
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/10/02

Metal	RL	IDL	MB raw	final
Aluminum	200	9.44	17.1	<200
Antimony	5.0	2.56	-0.51	<5.0
Arsenic	10	3.15	-1.1	<10
Barium	200	.94	-0.030	<200
Beryllium	5.0	.22	-0.25	<5.0
Cadmium	5.0	.27	-0.35	<5.0
Calcium	1000	10.2	1.2	<1000
Chromium	10	.35	0.68	<10
Cobalt	50	.55	-0.23	<50
Copper	25	.71	-1.5	<25
Iron	300	9.02	-60	<300
Lead	5.0	1.16	0.97	<5.0
Magnesium	5000	25.5	-1.7	<5000
Manganese	15	.26	-1.5	<15
Molybdenum	50	1.01		
Nickel	40	.8	0.70	<40
Potassium	5000	49	636	<5000
Selenium	10	2.5	0.21	<10
Silver	10	.59	-0.24	<10
Sodium	5000	173	10.6	<5000
Thallium	10	2.07	-2.0	<10
Tin	50	1.03		
Vanadium	50	.58	-0.36	<50
Zinc	20	.36	-1.5	<20

TOTAL

Associated samples MP4329: F12806-1, F12806-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4332
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/11/02

Metal	RL	IDL	MB raw	final
Aluminum	200	9.44	-29	<200
Antimony	5.0	2.56	-1.1	<5.0
Arsenic	10	3.15	-1.7	<10
Barium	200	.94	-0.030	<200
Beryllium	5.0	.22	-0.31	<5.0
Cadmium	5.0	.27	-0.39	<5.0
Calcium	1000	10.2	1.9	<1000
Chromium	10	.35	-0.29	<10
Cobalt	50	.55	-0.26	<50
Copper	25	.71	-0.92	<25
Iron	300	9.02	-63	<300
Lead	5.0	1.16	-0.13	<5.0
Magnesium	5000	25.5	-6.8	<5000
Manganese	15	.26	-1.4	<15
Molybdenum	50	1.01	anr	
Nickel	40	.8	-0.72	<40
Potassium	5000	49	645	<5000
Selenium	10	2.5	-0.74	<10
Silver	10	.59	-0.26	<10
Sodium	5000	173	47.0	<5000
Thallium	10	2.07	-1.7	<10
Tin	50	1.03		
Vanadium	50	.58	-0.16	<50
Zinc	20	.36	-1.2	<20

DISSOLVED

Associated samples MP4332: F12806-1A, F12806-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE/DUPLICATE SUMMARY

MET.07

376a

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4327
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/09/02 04/09/02

Metal	F12819-1 Original	DUP	RPD	QC Limits	F12819-1 Original	MS	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.49	0.49	0.0	0-20	0.49	3.7	3	107.0	62-131

Associated samples MP4327: F12806-1, F12806-2, F12806-1A, F12806-2A

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: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4327
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/09/02

Metal	F12819-1 Original	MSD	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.49	3.7	3	107.0	62-131

Associated samples MP4327: F12806-1, F12806-2, F12806-1A, F12806-2A

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

C378

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4329
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				04/10/02					04/10/02	
Metal	F12819-2 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12819-2 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	418	29600	29000	100.6	70-122	418	29500	29000	100.3	70-122
Antimony	0.0	827	1000	82.7	66-120	0.0	826	1000	82.6	66-120
Arsenic	0.0	3920	4000	98.0	75-120	0.0	3910	4000	97.8	75-120
Barium	10.7	3970	4000	99.0	72-120	10.7	3940	4000	98.2	72-120
Beryllium	0.0	104	100	104.0	73-120	0.0	104	100	104.0	73-120
Cadmium	0.0	97.6	100	97.6	72-120	0.0	97.4	100	97.4	72-120
Calcium	3460	29500	25000	104.2	37-150	3460	29300	25000	103.4	37-150
Chromium	0.97	413	400	103.0	69-122	0.97	410	400	102.3	69-122
Cobalt	1.5	1020	1000	101.9	69-120	1.5	1010	1000	100.9	69-120
Copper	1.1	514	500	102.6	70-120	1.1	510	500	101.8	70-120
Iron	168	28700	27000	105.7	72-122	168	28700	27000	105.7	72-122
Lead	2.2	1020	1000	101.8	70-126	2.2	1010	1000	100.8	70-126
Magnesium	1560	26600	25000	100.2	73-127	1560	26500	25000	99.8	73-127
Manganese	64.7	1110	1000	104.5	74-122	64.7	1110	1000	104.5	74-122
Molybdenum										
Nickel	5.1	1030	1000	102.5	69-120	5.1	1020	1000	101.5	69-120
Potassium	1840	26600	25000	99.0	61-122	1840	26600	25000	99.0	61-122
Selenium	7.6	4040	4000	100.8	74-120	7.6	4030	4000	100.6	74-120
Silver	0.0	97.5	100	97.5	52-126	0.0	97.5	100	97.5	52-126
Sodium	8360	33800	25000	101.8	56-130	8360	33500	25000	100.6	56-130
Thallium	3.9	4170	4000	104.2	80-122	3.9	4160	4000	103.9	80-122
Tin										
Vanadium	0.80	1030	1000	102.9	75-122	0.80	1020	1000	101.9	75-122
Zinc	25.8	1050	1000	102.4	68-123	25.8	1050	1000	102.4	68-123

Associated samples MP4329: F12806-1, F12806-2

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

0379

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4332
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				04/11/02					04/11/02	
Metal	F12849-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12849-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	1890	35500	29000	115.9	70-122	1890	35100	29000	114.5	70-122
Antimony	0.0	853	1000	85.3	66-120	0.0	846	1000	84.6	66-120
Arsenic	0.0	4110	4000	102.8	75-120	0.0	4140	4000	103.5	75-120
Barium	54.2	3680	4000	90.6	72-120	54.2	3670	4000	90.4	72-120
Beryllium	0.0	94.3	100	94.3	73-120	0.0	96.0	100	96.0	73-120
Cadmium	0.0	88.4	100	88.4	72-120	0.0	90.0	100	90.0	72-120
Calcium	279000	303000	25000	96.0	37-150	279000	308000	25000	116.0	37-150
Chromium	2.6	385	400	95.6	69-122	2.6	391	400	97.1	69-122
Cobalt	1.1	914	1000	91.3	69-120	1.1	930	1000	92.9	69-120
Copper	0.0	527	500	105.4	70-120	0.0	526	500	105.2	70-120
Iron	1980	28100	27000	96.7	72-122	1980	28300	27000	97.5	72-122
Lead	5.9	943	1000	93.7	70-126	5.9	959	1000	95.3	70-126
Magnesium	484000	507000	25000	92.0	73-127	484000	512000	25000	112.0	73-127
Manganese	434	1400	1000	96.6	74-122	434	1410	1000	97.6	74-122
Molybdenum										
Nickel	7.0	911	1000	90.4	69-120	7.0	927	1000	92.0	69-120
Potassium	262000	284000	25000	88.0	61-122	262000	282000	25000	80.0	61-122
Selenium	0.0	4170	4000	104.3	74-120	0.0	4220	4000	105.5	74-120
Silver	0.0	111	100	111.0	52-126	0.0	110	100	110.0	52-126
Sodium	5760000	5690000	25000	-280.0(a	56-130	5760000	5670000	25000	-360.0(a	56-130
Thallium	5.5	3740	4000	93.4	80-122	5.5	3790	4000	94.6	80-122
Tin										
Vanadium	6.5	969	1000	96.3	75-122	6.5	980	1000	97.4	75-122
Zinc	2670	3620	1000	95.0	68-123	2670	3720	1000	105.0	68-123

Associated samples MP4332: F12806-1A, F12806-2A

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) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

0381

SPIKE BLANK/LAB CONTROL SAMPLE SUMMARY

MET.08

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4327
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/09/02

Metal	BSP Result	Spikelot HGFLWS	% Rec	QC Limits
Mercury	2.7	3	90.0	80-120

Associated samples MP4327: F12806-1, F12806-2, F12806-1A, F12806-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4329
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/10/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	29200	29000	100.7	80-120
Antimony	854	1000	85.4	80-120
Arsenic	4060	4000	101.5	80-120
Barium	4080	4000	102.0	80-120
Beryllium	108	100	108.0	80-120
Cadmium	101	100	101.0	80-120
Calcium	26000	25000	104.0	80-120
Chromium	426	400	106.5	80-120
Cobalt	1050	1000	105.0	80-120
Copper	525	500	105.0	80-120
Iron	28700	27000	106.3	80-120
Lead	1050	1000	105.0	80-120
Magnesium	25000	25000	100.0	80-120
Manganese	1080	1000	108.0	80-120
Molybdenum				
Nickel	1060	1000	106.0	80-120
Potassium	24600	25000	98.4	80-120
Selenium	4190	4000	104.8	80-120
Silver	101	100	101.0	80-120
Sodium	23400	25000	93.6	80-120
Thallium	4300	4000	107.5	80-120
Tin				
Vanadium	1060	1000	106.0	80-120
Zinc	1070	1000	107.0	80-120

Associated samples MP4329: F12806-1, F12806-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4332
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/11/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	28500	29000	98.3	80-120
Antimony	826	1000	82.6	80-120
Arsenic	3880	4000	97.0	80-120
Barium	3840	4000	96.0	80-120
Beryllium	104	100	104.0	80-120
Cadmium	98.9	100	98.9	80-120
Calcium	25600	25000	102.4	80-120
Chromium	415	400	103.8	80-120
Cobalt	1010	1000	101.0	80-120
Copper	501	500	100.2	80-120
Iron	28200	27000	104.4	80-120
Lead	1020	1000	102.0	80-120
Magnesium	24300	25000	97.2	80-120
Manganese	1040	1000	104.0	80-120
Molybdenum				
Nickel	1030	1000	103.0	80-120
Potassium	24000	25000	96.0	80-120
Selenium	4000	4000	100.0	80-120
Silver	98.6	100	98.6	80-120
Sodium	22600	25000	90.4	80-120
Thallium	4140	4000	103.5	80-120
Tin				
Vanadium	1020	1000	102.0	80-120
Zinc	1040	1000	104.0	80-120

Associated samples MP4332: F12806-1A, F12806-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

MET.09

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4329
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/10/02

Metal	F12819-2 Original	SDL 1:5	RPD	QC Limits
Aluminum	418	457	9.4	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	10.7	14.7	37.3 (a)	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	3460	3920	13.5*(b)	0-10
Chromium	0.970	0.00	100.0(a)	0-10
Cobalt	1.49	0.00	100.0(a)	0-10
Copper	1.10	0.00	100.0(a)	0-10
Iron	168	0.00	100.0(a)	0-10
Lead	2.18	7.97	265.6(a)	0-10
Magnesium	1560	1630	4.2	0-10
Manganese	64.7	61.9	4.3	0-10
Molybdenum				
Nickel	5.07	6.20	22.3 (a)	0-10
Potassium	1840	4400	139.9(a)	0-10
Selenium	7.62	13.1	72.0 (a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	8360	7850	6.1	0-10
Thallium	3.90	21.1	442.1(a)	0-10
Tin				
Vanadium	0.800	0.00	100.0(a)	0-10
Zinc	25.8	12.4	51.7*(b)	0-10

Associated samples MP4329: F12806-1, F12806-2

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.

0388

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4332
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/11/02

Metal	F12849-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	1890	1520	19.5*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	54.2	55.2	1.7	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	279000	312000	11.9*(a)	0-10
Chromium	2.61	3.16	21.1 (b)	0-10
Cobalt	1.10	0.00	100.0(b)	0-10
Copper	0.00	0.00	NC	0-10
Iron	1980	3390	71.3*(a)	0-10
Lead	5.92	10.1	71.1 (b)	0-10
Magnesium	484000	497000	2.8	0-10
Manganese	434	462	6.3	0-10
Molybdenum	anr			
Nickel	6.99	11.0	57.9 (b)	0-10
Potassium	262000	284000	8.2	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	5760000	4990000	13.3*(a)	0-10
Thallium	5.52	19.4	251.3(b)	0-10
Tin				
Vanadium	6.53	10.1	53.9 (b)	0-10
Zinc	2670	3100	16.1*(a)	0-10

Associated samples MP4332: F12806-1A, F12806-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

INSTRUMENT RUN LOG

MET.10

0390

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:11	MA2767-ICV1	1		
	10:14	MA2767-ICB1	1		
	10:17	MA2767-CRI1	1		
	10:20	MA2767-ICSA1	1		
	10:26	MA2767-ICSAB1	1		
	10:31	MA2767-CCV1	1		
	10:36	MA2767-CCB1	1		
	10:40	F12849-1	10		(sample used for QC only; not part of login F12806)
	10:44	MP4332-D1	10		
---------->	Last reportable sample/prep for job F12806				
	10:48	ZZZZZZ	10		
	10:52	ZZZZZZ	10		
	10:56	ZZZZZZ	1		
	10:59	MP4335-MB1	1		
	11:03	MP4335-B1	1		
	11:07	F12837-1	1		(sample used for QC only; not part of login F12806)
	11:11	MP4335-S1	1		
	11:16	MP4335-S2	1		
	11:20	MA2767-CCV2	1		
	11:25	MA2767-CCB2	1		
---------->	Last reportable CCB for job F12806				
	11:40	MP4335-D1	1		
	11:44	MP4335-SD1	5		
	11:48	ZZZZZZ	1		
	11:52	ZZZZZZ	1		
	11:56	ZZZZZZ	1		
	12:00	ZZZZZZ	1		
	12:04	ZZZZZZ	1		
	12:08	ZZZZZZ	1		
	12:12	ZZZZZZ	1		
	12:16	ZZZZZZ	1		
	12:19	MA2767-CCV3	1		
	12:25	MA2767-CCB3	1		
	12:29	ZZZZZZ	1		
	12:32	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:56	MP4336-MB1	1		
13:00	MP4336-B1	1		
13:05	F12863-1	1		(sample used for QC only; not part of login F12806)
13:09	MA2767-CCV4	1		
13:14	MA2767-CCB4	1		
13:18	MP4336-S1	1		
13:22	MP4336-S2	1		
13:28	MP4336-D1	1		
13:32	MP4336-SD1	5		
13:36	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	MA2767-CCV5	1		
14:04	MA2767-CCB5	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:47	MA2767-CCV6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:53	MA2767-CCB6	1		
14:57	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	MA2767-CCV7	1		
15:10	MA2767-CCB7	1		

Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2765
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
10:21	MA2765-ICV1	1		
10:25	MA2765-ICB1	1		
10:31	MA2765-CRI1	1		
10:38	MA2765-CRI2	1		
10:39	MA2765-ICSA1	1		
10:42	MA2765-ICSAB1	1		
10:46	MA2765-CCV1	1		
10:50	MA2765-CCB1	1		
11:01	MP4329-MB1	1		
11:05	MP4329-B1	1		
11:09	F12819-2	1		(sample used for QC only; not part of login F12806)
11:13	MP4329-S1	1		
11:17	MP4329-S2	1		
11:21	MP4329-D1	1		
11:25	MP4329-SD1	5		
11:29	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	MA2765-CCV2	1		
11:45	MA2765-CCB2	1		
11:49	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:57	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:28	MA2765-CCV3	1		
12:33	MA2765-CCB3	1		
12:37	ZZZZZZ	1		

0394

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2765
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
12:41	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	F12806-1	1		
12:53	F12806-2	1		
12:57	MP4330-MB1	1		
13:01	MP4330-B1	1		
13:05	F12835-2	1		(sample used for QC only; not part of login F12806)
13:08	MP4330-S1	1		
13:12	MP4330-S2	1		
13:16	MA2765-CCV4	1		
13:21	MA2765-CCB4	1		
13:25	MP4330-D1	1		
13:29	MP4330-SD1	5		
13:33	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:45	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:04	MA2765-CCV5	1		
14:10	MA2765-CCB5	1		
14:13	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:33	MA2765-CCV6	1		
14:38	MA2765-CCB6	1		
14:46	MP4332-MB1	1		
14:50	MP4332-B1	1		
14:57	F12849-1	1		(sample used for QC only; not part of login F12806)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2765
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
	15:00	MP4332-S1	1		
	15:04	MP4332-S2	1		
	15:11	MP4332-D1	1		
	15:15	MP4332-SD1	5		
	15:19	ZZZZZZ	1		
	15:22	ZZZZZZ	1		
	15:26	ZZZZZZ	1		
	15:47	MA2765-CCV7	1		
	15:52	MA2765-CCB7	1		
	16:08	ZZZZZZ	1		
	16:12	ZZZZZZ	1		
	16:16	ZZZZZZ	1		
	16:20	ZZZZZZ	1		
	16:24	ZZZZZZ	1		
	16:27	ZZZZZZ	1		
	16:31	ZZZZZZ	1		
	16:35	ZZZZZZ	1		
	16:45	ZZZZZZ	1		
	16:49	ZZZZZZ	1		
	16:53	MA2765-CCV8	1		
	16:58	MA2765-CCB8	1		
	17:02	ZZZZZZ	1		
	17:06	ZZZZZZ	1		
	17:09	ZZZZZZ	1		
	17:13	F12806-1A	1		
	17:17	F12806-2A	1		
---------->	Last reportable sample/prep for job F12806				
	17:21	MP4331-MB1	1		
	17:25	MP4331-B1	1		
	17:29	F12846-1	1		(sample used for QC only; not part of login F12806)
	17:33	MP4331-S1	1		
	17:37	MP4331-D1	1		
	17:41	MA2765-CCV9	1		
	17:46	MA2765-CCB9	1		
---------->	Last reportable CCB for job F12806				

0396

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0411M5.ASC Date Analyzed: 04/11/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2765
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
17:50	MP4331-SD1	5		
17:54	ZZZZZZ	1		
17:58	ZZZZZZ	1		
18:01	MA2765-CCV10	1		
18:07	MA2765-CCB10	1		

Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
Analyst: LIR Run ID: MA2779
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2779-ICV1	1		
00:00	MA2779-ICB1	1		
00:00	MA2779-CCV1	1		
00:00	MA2779-CCB1	1		
00:00	MA2779-CRI1	1		
00:00	MP4327-MB1	1		
00:00	MP4327-B1	1		
00:00	MP4327-S1	1		
00:00	MP4327-S2	1		
00:00	MP4327-D1	1		
00:00	F12819-1	1		(sample used for QC only; not part of login F12806)
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	MA2779-CCV2	1		
00:00	MA2779-CCB2	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	MA2779-CCV3	1		
00:00	MA2779-CCB3	1		
00:00	ZZZZZZ	1		
00:00	F12806-1	1		
00:00	F12806-2	1		
00:00	F12806-1A	1		
00:00	F12806-2A	1		
00:00	MA2779-CCV4	1		

0398

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12806
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0410W1.HGX Date Analyzed: 04/10/02 Methods: SW846 7470A
Analyst: LIR Run ID: MA2779
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2779-CCB4	1		

Refer to raw data for calibration curve and standards.

METALS DIGESTION LOG

MET.11

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 93 **Thermometer ID** 46

	HNO3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101043	4101031

MP 4329

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/10/02	50 mL	50mL	4/10/02	
SB ↓				1mL acc 254+, .25mL acc 257
MS F12819-2				+.5mL met 714
MSD F12819-2				↓
Dup F12819-2				
1 QC F12819-2				
2 F12819-2 1	DM 4/10/02			
3 F12819-3				
4 F12819-4				
5 F12819-5				
6 F12819-6				
7 F12819-7				
8 F12819-8				
9 F12819-9				
10 F12819-10				
11 F12819-11				
12 F12819-12				
13 F12819-13				
14 F12832-1				
15 F12835-8				FD
16 F12840-1				
17 F12840-2				
18 F12806-1				
19 F12806-2	↓	↓	↓	
20	DM	4/10/02		

Analyst DM/Stryne **Date** 4/10/02

QC Review [illegible] **Date** 4/10/02

Rev. 07/23/01 SI

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 92 **Thermometer ID** 46

	HNO_3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101040	4101031

MP4332

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/11/02	50mL	50mL	4/11/02	
SB ↓	↓	↓	↓	1ml acc254 + .25ml acc257
MS F12849-1				+ .5ml met 714
MSD F12849-1				↓
Dup F12849-1				
1 QC F12849-1				
2 F12852-1				
3 F12852-2				
4 F12852-3				
5 F12852-4				
6 F12852-5				
7 F12852-6				
8 F12852-7				
9. F12852-8				
10 F12852-9				
11 F12843-1				
12 F12843-2				
13 F12843-3				
14 F12850-1				
15 F12850-2				
16 F12850-3				
17 F12850-4				
18 F12806-1A				
19 F12806-2A	↓	↓	↓	
20	OM 4/11/02			

Analyst OM Stryker **Date** 4/11/02

QC Review [illegible] **Date** 4/11/02

Rev. 07/23/01 SI

Page Number: 019

0402

MERCURY DIGESTION LOG

MET.12

MP4327

MA2779

Mercury Digestion Log: Water and Soil (circle one)

Method of Digestion: EPA 245.1 Temp., C: 95

Analyst: [illegible] Thermometer #: 37

Date/Time Started: 4/9 900 Date/Time Ended: 4/9 1100 *

*Digest solid matrices for 30 min, aqueous matrices for 2 hours.

Reagents Added	HNO_3	HCl	H_2SO_4	$KMnO_4$	$K_2S_2O_8$	$SnCl_2$	H_3NOHCl
Manuf.	Fisher						
Lot #	1101040	~~4121021~~ 1241 9	3101010 LR 419102	GN74 7602		GN7446	

Sample #	Wt., g	Init. Vol.,mL	Final Vol.,mL	Comments
STD 1			100	0.05 of 7206
STD 2				0.1
STD 3				0.2
STD 4				0.3
STD 5				0.4
STD 6				0.5
STD 7				0.6
Cal. Blank				
Method Blank		100		
Blank Spike		100		3ml of 7206
MS F12819-1				Same as ~~7206~~ SB LR 4/9
MSD -1				Same as SB
Dup. -1				
1 -1				
2 2				
3 3				
4 4				
5 5				
6 6				
7 7				
8 8				
9 9				
10 10				
11 11				
12 12				
13 13				
Soil 14 ~~F12810-1~~				
LR 4/9 15 F12810-2				
16 806-1				
17 2				
18 806-1A				
19 806-2A				
20				

Analyst's Signature: [illegible] Date: 4-9-02

Reviewer's Signature: [illegible] Date: 4/11/02

Rev. 07-03-01 SI

MERCURY ANALYSIS SHEET

MET.13

Accutest Labs Correlation Coefficient /Slope/Intercept Program
HG Analysis Sheet

Instrument ID:	HG1
Analyst:	LINDAIR
Date of Analysis:	04/10/2002
File Name:	HG0410W1

Corr. Coef:	0.99991
Slope:	2.932522589
Intercept:	-0.000675513

Sample #	X Values(abs)	Y Values Conc. (ug)	DF	Raw Conc. ug/L
CALBLK	0.0000	0.0000		
STD1	0.0170	0.0500		
STD2	0.0340	0.1000		
STD3	0.0690	0.2000		
STD4	0.1040	0.3000		
STD5	0.1360	0.4000		
STD6	0.1700	0.5000		
STD7	0.2050	0.6000		
ICV 2	0.1050	0.3071		3.0714
ICB	0.0000	-0.0010		-0.0103
CCV	0.1050	0.3071		3.0714
CCB	0.0000	-0.0010		-0.0103
CRI	0.0200	0.0577		0.5767
MP4327-MB1	0.0000	-0.0010		-0.0103
MP4327-B1	0.0920	0.2690		2.6899
MP4327-S1	0.1250	0.3658		3.6584
MP4327-S2	0.1260	0.3688		3.6878
MP4327-D1	0.0170	0.0489		0.4887
F12819-1	0.0170	0.0489		0.4887
F12819-2	0.0190	0.0547		0.5474
F12819-3	0.0110	0.0313		0.3126
F12819-4	0.0120	0.0342		0.3419
CCV	0.1040	0.3042		3.0421
CCB	0.0000	-0.0010		-0.0103
F12819-5	0.0190	0.0547		0.5474
F12819-6	0.0180	0.0518		0.5180
F12819-7	0.0180	0.0518		0.5180
F12819-8	0.0120	0.0342		0.3419
F12819-9	0.0200	0.0577		0.5767
F12819-10	0.0130	0.0371		0.3713
F12819-11	0.0190	0.0547		0.5474
F12819-12	0.0160	0.0459		0.4593
F12819-13	0.0180	0.0518		0.5180
CCV	0.1050	0.3071		3.0714
CCB	0.0000	-0.0010		-0.0103
F12810-2	0.0120	0.0342		0.3419
F12806-1	0.0270	0.0782		0.7822
F12806-2	0.0290	0.0841		0.8409
F12806-1A	0.0110	0.0313		0.3126
F12806-2A	0.0120	0.0342		0.3419
CCV	0.1010	0.2954		2.9540
CCB	0.0000	-0.0010		-0.0103

Set 2

Southeast ACCUTEST

05/02/02

Technical Report for

IT Corporation

Plum Brook Ordnance WKS.

825635

Accutest Job Number: F12851

Report to:

IT Corporation

mmcmyler@theitgroup.com

ATTN: Maureen McMyler

Total number of pages in report: 100

ACCREDITED IN ACCORDANCE WITH

Harry Behzadi, Ph.D.
Laboratory Director

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.

Certification: Florida DOH E83510

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Sample Summary

IT Corporation

Job No: F12851

Plum Brook Ordnance WKS.
Project No: 825635

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12851-1	04/09/02	12:48	DD	04/10/02	AQ	Ground Water	CB3045
F12851-2	04/09/02	18:00	DD	04/10/02	AQ	Trip Blank Water	CB5011
F12851-1A	04/09/02	12:48	DD	04/10/02	AQ	Groundwater Filtered	CB3045

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015921.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	44.5	50	ug/l	J
71-43-2	Benzene	9.6	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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	10.9	10	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	13.9	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	40	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	9.3	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	95.1	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) Elevated reporting limits due to matrix interference.

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a com

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009522.D	1	04/23/02	ME	04/16/02	OP4979	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

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	25	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
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	
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	2.6	5.0	ug/l	J
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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		20-125%
4165-62-2	Phenol-d5	27%		10-125%
118-79-6	2,4,6-Tribromophenol	81%		35-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang

J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		46-125%
321-60-8	2-Fluorobiphenyl	69%		46-125%
1718-51-0	Terphenyl-d14	84%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang

J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG002950.D	1	04/16/02	MRE	04/15/02	OP4971	GGG150
Run #2	GG003076.D	1	04/26/02	MRE	04/24/02	OP5028	GGG156

	Initial Volume	Final Volume
Run #1	970 ml	10.0 ml
Run #2	950 ml	10.0 ml

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	J
121-82-4	RDX	ND	0.50	ug/l	J
99-65-0	1,3-Dinitrobenzene	ND	0.20	ug/l	J
606-20-2	2,6-Dinitrotoluene	ND	0.20	ug/l	J
121-14-2	2,4-Dinitrotoluene	ND	0.20	ug/l	J
35572-78-2	2-amino-4,6-Dinitrotc	ND	0.20	ug/l	J
19406-51-0	4-amino-2,6-Dinitrotc	ND	0.20	ug/l	J
98-95-3	Nitrobenzene	ND	0.20	ug/l	J
88-72-2	o-Nitrotoluene	ND	0.20	ug/l	J
99-08-1	m-Nitrotoluene	ND	0.20	ug/l	J
99-99-0	p-Nitrotoluene	ND	0.20	ug/l	J
479-45-8	Tetryl	ND	0.20	ug/l	J
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	ug/l	J
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	12% [b]	22%	58-131%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.
(b) Surrogates outside of control limits, all values should be considered estimated.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang
J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/10/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Calcium	419000	1000	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Magnesium	150000	5000	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Manganese	<15	15	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/11/02	04/12/02 LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Potassium	15900	5000	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Sodium	55700	5000	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/12/02	04/15/02 DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CB5011		
Lab Sample ID:	F12851-2	**Date Sampled:**	04/09/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015920.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CB5011		
Lab Sample ID:	F12851-2	**Date Sampled:**	04/09/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang
J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3045		
Lab Sample ID:	F12851-1A	**Date Sampled:**	04/09/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/10/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Calcium	438000	1000	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Magnesium	157000	5000	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Manganese	<15	15	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/11/02	04/12/02 LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Potassium	16900	5000	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Sodium	58700	5000	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/12/02	04/15/02 BM	SW846 6010B	SW846 3010A

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-BS	G0015917.11		04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	119	95	67-125
71-43-2	Benzene	25	25.2	101	75-125
75-27-4	Bromodichloromethane	25	24.1	96	75-125
75-25-2	Bromoform	25	26.1	104	72-125
108-90-7	Chlorobenzene	25	25.3	101	75-125
75-00-3	Chloroethane	25	23.5	94	58-136
67-66-3	Chloroform	25	25.4	102	75-125
75-15-0	Carbon disulfide	125	128	102	48-142
56-23-5	Carbon tetrachloride	25	27.2	109	75-136
75-34-3	1,1-Dichloroethane	25	24.3	97	75-125
75-35-4	1,1-Dichloroethylene	25	24.2	97	67-138
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
78-87-5	1,2-Dichloropropane	25	26.4	106	75-125
124-48-1	Dibromochloromethane	25	30.3	121	75-125
156-59-2	cis-1,2-Dichloroethyl	25	26.5	106	75-129
10061-01-5	cis-1,3-Dichloroprope	25	23.5	94	75-125
156-60-5	trans-1,2-Dichloroeth	25	24.2	97	73-125
10061-02-6	trans-1,3-Dichloropro	25	27.9	112	75-125
100-41-4	Ethylbenzene	25	25.6	102	68-135
591-78-6	2-Hexanone	125	142	114	68-125
108-10-1	4-Methyl-2-pentanone	125	123	98	75-125
74-83-9	Methyl bromide	25	21.0	84	59-146
74-87-3	Methyl chloride	25	23.5	94	50-142
75-09-2	Methylene chloride	25	24.5	98	69-125
78-93-3	Methyl ethyl ketone	125	119	95	70-125
100-42-5	Styrene	25	25.1	100	75-125
71-55-6	1,1,1-Trichloroethane	25	25.7	103	75-132
79-34-5	1,1,2,2-Tetrachloroet	25	23.1	92	75-125
79-00-5	1,1,2-Trichloroethane	25	27.3	109	75-125
127-18-4	Tetrachloroethylene	25	31.9	128*	75-126
108-88-3	Toluene	25	30.9	124	75-125
79-01-6	Trichloroethylene	25	26.2	105	75-125
75-01-4	Vinyl chloride	25	23.0	92	60-147
1330-20-7	Xylene (total)	75	78.1	104	75-125

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-BS	G0015917.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	80-120%
2037-26-5	Toluene-D8	119%	80-120%
460-00-4	4-Bromofluorobenzene	93%	80-120%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-MB	G0015918.D1		04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-MB	G0015918.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-4MS	G0015924.D		04/15/02	KW	n/a	n/a	VG497
F12863-4MSD	G0015925.D		04/15/02	KW	n/a	n/a	VG497
F12863-4	G0015923.D		04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

CAS No.	Compound	F12863-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.1		125	121	87	120	86	1	61-125/15
71-43-2	Benzene	ND		25	25.4	102	24.7	99	3	75-125/15
75-27-4	Bromodichloromethane	ND		25	24.3	97	23.9	96	2	75-125/15
75-25-2	Bromoform	ND		25	24.4	98	24.9	100	2	66-125/15
108-90-7	Chlorobenzene	ND		25	24.4	98	24.9	100	2	75-125/15
75-00-3	Chloroethane	ND		25	23.3	93	22.3	89	4	53-125/15
67-66-3	Chloroform	4.0		25	32.3	113	32.4	114	0	75-125/15
75-15-0	Carbon disulfide	ND		125	128	102	124	99	3	51-138/15
56-23-5	Carbon tetrachloride	ND		25	27.5	110	27.3	109	1	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	23.5	94	23.9	96	2	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	23.7	95	23.7	95	0	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	25.3	101	24.2	97	4	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.1	104	25.7	103	2	75-125/15
124-48-1	Dibromochloromethane	ND		25	24.5	98	25.3	101	3	75-125/15
156-59-2	cis-1,2-Dichloroethyl	ND		25	25.2	101	25.8	103	2	75-136/15
10061-01-5	cis-1,3-Dichloroprope	ND		25	22.6	90	22.7	91	0	71-125/15
156-60-5	trans-1,2-Dichloroeth	ND		25	24.1	96	23.7	95	2	73-125/15
10061-02-6	trans-1,3-Dichloropro	ND		25	21.2	85	20.5	82	3	62-125/15
100-41-4	Ethylbenzene	ND		25	24.9	100	25.8	103	4	75-125/15
591-78-6	2-Hexanone	ND		125	125	100	124	99	1	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	124	99	130	104	5	75-125/15
74-83-9	Methyl bromide	ND		25	20.7	83	20.3	81	2	67-146/15
74-87-3	Methyl chloride	ND		25	24.0	96	23.2	93	3	47-160/15
75-09-2	Methylene chloride	ND		25	24.3	97	23.5	94	3	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	122	98	127	102	4	70-125/15
100-42-5	Styrene	ND		25	24.0	96	24.2	97	1	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	25.9	104	25.6	102	1	75-131/15
79-34-5	1,1,2,2-Tetrachloroet	ND		25	23.1	92	23.3	93	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	23.5	94	24.9	100	6	75-125/15
127-18-4	Tetrachloroethylene	ND		25	25.4	102	25.6	102	1	75-125/15
108-88-3	Toluene	ND		25	25.3	101	25.0	100	1	75-125/15
79-01-6	Trichloroethylene	ND		25	25.4	102	24.9	100	2	75-125/15
75-01-4	Vinyl chloride	ND		25	22.0	88	23.6	94	7	52-169/15
1330-20-7	Xylene (total)	ND		75	75.7	101	77.7	104	3	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-4MS	G0015924.D		04/15/02	KW	n/a	n/a	VG497
F12863-4MSD	G0015925.D		04/15/02	KW	n/a	n/a	VG497
F12863-4	G0015923.D		04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12851-1, F12851-2

CAS No.	Surrogate Recoveries	MS	MSD	F12863-4	Limits
1868-53-7	Dibromofluoromethane	99%	102%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	103%	80-120%
2037-26-5	Toluene-D8	100%	101%	103%	80-120%
460-00-4	4-Bromofluorobenzene	97%	96%	96%	80-120%

Instrument Performance Check (BFB)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG497-BFB
Lab File ID: G0015914.D
Instrument ID: GCMSG
Injection Date: 04/15/02
Injection Time: 10:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	29864	24.7		Pass
75	30.0 - 60.0% of mass 95	71912	59.5		Pass
95	Base peak, 100% relative abundance	120960	100.0		Pass
96	5.0 - 9.0% of mass 95	9408	7.8		Pass
173	Less than 2.0% of mass 174	1769	1.5	(1.9)	Pass
174	50.0 - 100.0% of mass 95	92856	76.8		Pass
175	5.0 - 9.0% of mass 174	8049	6.7	(8.7)	Pass
176	95.0 - 101.0% of mass 174	89000	73.6	(95.8)	Pass
177	5.0 - 9.0% of mass 176	6847	5.7	(7.7)	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
VG497-CC491	G0015916.D	04/15/02	11:42	00:51	Continuing cal 40
VG497-BS	G0015917.D	04/15/02	12:23	01:32	Blank Spike
VG497-MB	G0015918.D	04/15/02	12:54	02:03	Method Blank
ZZZZZZ	G0015919.D	04/15/02	13:26	02:35	(unrelated sample)
F12851-2	G0015920.D	04/15/02	13:57	03:06	CB5011
F12851-1	G0015921.D	04/15/02	14:28	03:37	CB3045
ZZZZZZ	G0015922.D	04/15/02	14:59	04:08	(unrelated sample)
F12863-4	G0015923.D	04/15/02	15:30	04:39	(used for QC only; not part of job I
F12863-4MS	G0015924.D	04/15/02	16:01	05:10	Matrix Spike
F12863-4MSD	G0015925.D	04/15/02	16:33	05:42	Matrix Spike Duplicate
ZZZZZZ	G0015926.D	04/15/02	17:04	06:13	(unrelated sample)
ZZZZZZ	G0015927.D	04/15/02	17:35	06:44	(unrelated sample)
ZZZZZZ	G0015928.D	04/15/02	18:06	07:15	(unrelated sample)
ZZZZZZ	G0015929.D	04/15/02	18:37	07:46	(unrelated sample)
ZZZZZZ	G0015930.D	04/15/02	19:08	08:17	(unrelated sample)
ZZZZZZ	G0015931.D	04/15/02	19:39	08:48	(unrelated sample)
ZZZZZZ	G0015932.D	04/15/02	20:11	09:20	(unrelated sample)
ZZZZZZ	G0015933.D	04/15/02	20:42	09:51	(unrelated sample)
ZZZZZZ	G0015934.D	04/15/02	21:13	10:22	(unrelated sample)
ZZZZZZ	G0015935.D	04/15/02	21:44	10:53	(unrelated sample)
ZZZZZZ	G0015936.D	04/15/02	22:15	11:24	(unrelated sample)
ZZZZZZ	G0015937.D	04/15/02	22:47	11:56	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG491-BFB
Lab File ID: G0015802.D
Instrument ID: GCMSG
Injection Date: 04/08/02
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	37600	22.7	Pass
75	30.0 - 60.0% of mass 95	86099	52.0	Pass
95	Base peak, 100% relative abundance	165675	100.0	Pass
96	5.0 - 9.0% of mass 95	11417	6.9	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0a)	Pass
174	50.0 - 100.0% of mass 95	122307	73.8	Pass
175	5.0 - 9.0% of mass 174	9111	5.5 (7.4b)	Pass
176	95.0 - 101.0% of mass 174	118421	71.5 (96.8b)	Pass
177	5.0 - 9.0% of mass 176	8806	5.3 (7.4b)	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
VG491-IC491	G0015803.D	04/08/02	11:24	00:18	Initial cal 1
VG491-IC491	G0015804.D	04/08/02	11:56	00:50	Initial cal 5
VG491-IC491	G0015805.D	04/08/02	12:27	01:21	Initial cal 20
VG491-ICC491	G0015806.D	04/08/02	12:58	01:52	Initial cal 40
VG491-IC491	G0015807.D	04/08/02	13:30	02:24	Initial cal 70
VG491-IC491	G0015808.D	04/08/02	14:01	02:55	Initial cal 100
ZZZZZZ	G0015811.D	04/08/02	16:00	04:54	(unrelated sample)
ZZZZZZ	G0015812.D	04/08/02	16:32	05:26	(unrelated sample)
ZZZZZZ	G0015813.D	04/08/02	17:03	05:57	(unrelated sample)
ZZZZZZ	G0015814.D	04/08/02	17:35	06:29	(unrelated sample)
ZZZZZZ	G0015815.D	04/08/02	18:06	07:00	(unrelated sample)
ZZZZZZ	G0015816.D	04/08/02	18:38	07:32	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VG497-CC491	**Injection Date:**	04/15/02
Lab File ID:	G0015916.D	**Injection Time:**	11:42
Instrument ID:	GCMSG	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1391057	7.79	931716	12.89	517171	17.31
Upper Limit[a]	2782114	8.29	1863432	13.39	1034342	17.81
Lower Limit[b]	695529	7.29	465858	12.39	258586	16.81

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VG497-BS	1441424	7.79	908056	12.89	517677	17.31
VG497-MB	1259089	7.80	958568	12.89	545713	17.30
ZZZZZZ	1204805	7.79	937770	12.90	545789	17.31
F12851-2	1156770	7.80	908365	12.90	516371	17.31
F12851-1	1103316	7.80	859008	12.89	511649	17.31
ZZZZZZ	1239109	7.80	937824	12.90	529950	17.31
F12863-4	1193100	7.80	905562	12.89	512896	17.31
F12863-4MS	1150977	7.81	876765	12.90	494573	17.31
F12863-4MSD	1140848	7.81	877463	12.90	503498	17.31
ZZZZZZ	1184972	7.80	887105	12.90	496494	17.31
ZZZZZZ	1171669	7.80	853077	12.90	503215	17.31
ZZZZZZ	1156355	7.80	857625	12.89	496040	17.30
ZZZZZZ	1125510	7.80	882628	12.89	485224	17.30
ZZZZZZ	1128488	7.80	872179	12.90	483066	17.31
ZZZZZZ	1115317	7.80	846480	12.89	476363	17.30
ZZZZZZ	1118875	7.80	840472	12.90	470323	17.31
ZZZZZZ	1085560	7.80	830957	12.90	471341	17.31
ZZZZZZ	1102690	7.80	819453	12.90	471674	17.30
ZZZZZZ	1098218	7.80	840307	12.89	469824	17.30
ZZZZZZ	1094510	7.80	825305	12.89	473610	17.29
ZZZZZZ	1089098	7.80	800037	12.89	457417	17.30

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12851-1	G0015921.D	103.0	99.0	102.0	93.0
F12851-2	G0015920.D	102.0	102.0	100.0	95.0
F12863-4MS	G0015924.D	99.0	101.0	100.0	97.0
F12863-4MSD	G0015925.D	102.0	101.0	101.0	96.0
VG497-BS	G0015917.D	98.0	101.0	119.0	93.0
VG497-MB	G0015918.D	102.0	98.0	101.0	91.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG491-ICC491
Lab FileID: G0015806.D

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet	0.275	0.275	0.364	0.308	0.289	0.268	0.296	12.11
3)	P	Chloromethane		0.374	0.422	0.389	0.319	0.301	0.361	13.95
4)	C	Vinyl Chloride	0.313	0.327	0.373	0.362	0.289	0.271	0.323	12.40
5)		Bromomethane	0.259	0.233	0.224	0.220	0.172	0.169	0.213	16.72
6)		Chloroethane	0.213	0.199	0.222	0.207	0.170	0.164	0.196	12.01
7)		Trichlorofluorometh	0.356	0.344	0.411	0.394	0.346	0.339	0.365	8.26
8)		Acrolein		0.028	0.031	0.032	0.026	0.025	0.028	10.93
9)	C	1,1-Dichloroethene	0.484	0.434	0.445	0.435	0.374	0.349	0.420	11.81
10)		Freon 113	0.262	0.242	0.273	0.266	0.227	0.208	0.246	10.28
11)		Acetone		0.094	0.103	0.097	0.083	0.078	0.091	11.34
12)		Iodomethane		0.395	0.456	0.412	0.358	0.334	0.391	12.15
13)		Carbon Disulfide	0.839	0.783	0.883	0.810	0.686	0.638	0.773	12.10
14)		Methyl acetate		0.204	0.250	0.201	0.200	0.194	0.210	10.97
15)		Methylene Chloride		0.465	0.436	0.354	0.354	0.334	0.389	14.97
16)		Tert Butyl Alcohol		0.028	0.035	0.028	0.027	0.028	0.029	10.92
17)		trans-1,2-Dichloroe	0.437	0.433	0.462	0.387	0.378	0.356	0.409	10.06
18)		Acrylonitrile		0.088	0.106	0.087	0.084	0.082	0.089	10.38
19)		Methyl Tert Butyl E		0.817	0.955	0.762	0.762	0.721	0.803	11.38
20)		Hexane	0.377	0.360	0.407	0.315	0.330	0.299	0.348	11.67
21)	P	1,1-Dichloroethane	0.518	0.523	0.548	0.448	0.458	0.427	0.487	10.06
22)		Vinyl acetate		0.583	0.614	0.514	0.511	0.477	0.540	10.51
23)		Di-isopropyl ether		1.126	1.041	0.916	0.943	0.866	0.978	10.66
24)		ETBE		1.066	0.923	0.891	0.914	0.856	0.930	8.64
25)		2,2-Dichloropropane		0.346	0.299	0.290	0.282	0.251	0.293	11.69
26)		cis-1,2-Dichloroeth		0.294	0.274	0.264	0.267	0.242	0.268	6.92
27)		2-Butanone		0.127	0.134	0.125	0.126	0.119	0.126	4.15
28)		Bromochloromethane	0.140	0.167	0.154	0.147	0.146	0.140	0.149	6.92
29)		Tetrahydrofuran		0.101	0.094	0.086	0.087	0.083	0.090	7.91
30)	C	Chloroform		0.574	0.504	0.486	0.492	0.450	0.501	9.07
31)		1,1,1-Trichloroetha	0.473	0.441	0.408	0.381	0.390	0.370	0.411	9.60
32)	S	Dibromofluoromethan	0.302	0.303	0.308	0.307	0.311	0.312	0.307	1.40
33)		Cyclohexane		0.475	0.445	0.427	0.441	0.414	0.440	5.26
34)		1,1-Dichloropropene		0.379	0.338	0.323	0.341	0.325	0.341	6.56
35)		Carbon Tetrachlorid	0.352	0.355	0.356	0.348	0.358	0.340	0.351	1.94
36)	S	1,2-Dichloroethane-	0.413	0.408	0.420	0.411	0.414	0.435	0.417	2.33
37)		Benzene		1.045	0.911	0.868	0.886	0.826	0.907	9.15
38)		1,2-Dichloroethane		0.518	0.465	0.454	0.456	0.433	0.465	6.88
39)		TAME		0.893	0.828	0.790	0.803	0.754	0.813	6.38
40)		Trichloroethene		0.308	0.271	0.268	0.276	0.262	0.277	6.52
41)		Methylcyclohexane	0.459	0.423	0.393	0.388	0.396	0.373	0.405	7.68
42)	C	1,2-Dichloropropane		0.323	0.268	0.259	0.264	0.248	0.272	10.80
43)		Dibromomethane	0.230	0.189	0.190	0.184	0.188	0.175	0.193	9.92
44)		1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003	9.91
45)		Bromodichloromethan	0.458	0.402	0.384	0.376	0.405	0.376	0.400	7.76
46)		2-Nitropropane		0.082	0.098	0.099	0.104	0.100	0.097	8.63

Initial Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: VG491-ICC491
Lab FileID: G0015806.D

47)		2-Chloroethyl vinyl		0.190	0.189	0.179	0.180	0.166	0.181	5.32
48)		4-Methyl-2-pentanon		0.232	0.295	0.274	0.279	0.262	0.269	8.66
49)		cis-1,3-Dichloropro		0.479	0.451	0.437	0.458	0.423	0.450	4.76
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.264	1.252	1.284	1.267	1.294	1.286	1.274	1.26
52)	C	Toluene		1.441	1.290	1.235	1.272	1.173	1.282	7.74
53)		trans-1,3-Dichlorop	0.678	0.603	0.611	0.561	0.597	0.557	0.601	7.26
54)		1,1,2-Trichloroetha	0.324	0.290	0.287	0.270	0.275	0.262	0.285	7.75
55)		Tetrachloroethene		0.395	0.366	0.347	0.350	0.317	0.355	8.07
56)		2-hexanone		0.253	0.275	0.260	0.268	0.251	0.261	3.88
57)		1,3-Dichloropropane		0.613	0.581	0.541	0.555	0.514	0.561	6.74
58)		Dibromochloromethan	0.419	0.336	0.338	0.338	0.358	0.344	0.356	9.11
59)		1,2-Dibromoethane		0.334	0.330	0.333	0.331	0.317	0.329	2.13
60)		1-Chlorohexane		0.538	0.466	0.450	0.463	0.428	0.469	8.75
61)	P	Chlorobenzene		1.012	0.876	0.838	0.843	0.790	0.872	9.68
62)		1,1,1,2-Tetrachloro	0.415	0.361	0.366	0.333	0.341	0.321	0.356	9.40
63)	C	Ethylbenzene		1.651	1.522	1.428	1.460	1.340	1.480	7.82
64)		m,p-Xylene		1.354	1.259	1.150	1.182	1.075	1.204	8.85
65)		o-Xylene		1.435	1.378	1.250	1.272	1.183	1.303	7.80
66)		Styrene	1.142	1.007	0.975	0.896	0.927	0.873	0.970	10.07
67)	P	Bromoform	0.242	0.178	0.230	0.221	0.246	0.240	0.226	11.17
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene		2.602	2.485	2.371	2.479	2.360	2.459	4.03
70)		Cyclohexanone		0.025	0.031	0.026	0.030	0.029	0.028	8.64
71)	S	4-Bromofluorobenzen	1.109	1.091	1.076	1.120	1.113	1.156	1.111	2.44
72)		Bromobenzene		0.800	0.730	0.695	0.721	0.674	0.724	6.61
73)	P	1,1,2,2-Tetrachloro		0.806	0.832	0.760	0.788	0.761	0.789	3.90
74)		1,2,3-Trichloroprop		0.240	0.248	0.246	0.244	0.241	0.244	1.52
75)		trans-1,4-Dichloro-		0.311	0.310	0.313	0.323	0.314	0.314	1.64
76)		n-Propylbenzene		3.493	3.227	3.142	3.179	2.950	3.198	6.11
77)		2-Chlorotoluene		2.447	2.121	2.027	2.123	1.980	2.139	8.53
78)		4-Chlorotoluene		2.829	2.452	2.395	2.400	2.288	2.473	8.41
79)		1,3,5-Trimethylbenz		2.450	2.267	2.227	2.231	2.122	2.260	5.29
80)		sec-Butylbenzene	3.182	2.945	2.632	2.593	2.682	2.529	2.760	9.10
81)		1,3-Dichlorobenzene		1.476	1.314	1.283	1.332	1.246	1.330	6.62
82)		4-Isopropyltoluene	2.800	2.489	2.273	2.221	2.307	2.155	2.374	9.98
83)		1,4-Dichlorobenzene		1.463	1.332	1.294	1.356	1.261	1.341	5.74
84)		tert-Butylbenzene		1.636	1.552	1.511	1.573	1.458	1.546	4.32
85)		n-Butylbenzene	2.710	2.389	2.297	2.267	2.309	2.205	2.363	7.63
86)		1,2-Dichlorobenzene		1.404	1.272	1.232	1.293	1.218	1.284	5.73
87)		1,2,4-Trimethylbenz		2.576	2.430	2.343	2.355	2.200	2.381	5.76
88)		1,2-Dibromo-3-Chlor		0.138	0.176	0.173	0.188	0.186	0.172	11.70
89)		1,2,4-Trichlorobenz	1.185	1.037	0.982	0.952	0.998	0.893	1.008	9.87
90)		Hexachlorobutadiene	0.455	0.432	0.407	0.402	0.383	0.371	0.409	7.64
91)		Naphthalene		2.243	2.332	2.170	2.249	2.141	2.227	3.36
92)		1,2,3-Trichlorobenz	1.099	0.991	0.894	0.892	0.907	0.854	0.939	9.61

Average % RSD = 8.1

(#) = Out of Range

624.M Wed Apr 10 13:15:47 2002 RP1

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: VG497-CC491
Lab FileID: G0015916.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041502\G0015916.D
Acq On : 15 Apr 2002 11:42 am
Sample : CC491-40
Misc : ms1454,vg497,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 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)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.01
2		Dichlorodifluoromethane	0.296	0.313	-5.7	97	0.00
3	P	Chloromethane	0.361	0.356	1.4	87	0.01
4	C	Vinyl Chloride	0.323	0.305	5.6	80	0.01
5		Bromomethane	0.213	0.218	-2.3	94	0.01
6		Chloroethane	0.196	0.196	0.0	90	0.01
7		Trichlorofluoromethane	0.365	0.430	-17.8	104	0.02
8		Acrolein	0.028	0.023	17.9	68	0.00
9	C	1,1-Dichloroethene	0.420	0.464	-10.5	101	0.00
10		Freon 113	0.246	0.263	-6.9	94	0.01
11		Acetone	0.091	0.105	-15.4	103	0.01
12		Iodomethane	0.391	0.435	-11.3	100	0.01
13		Carbon Disulfide	0.773	0.820	-6.1	96	0.00
14		Methyl acetate	0.210	0.221	-5.2	105	0.00
15		Methylene Chloride	0.389	0.422	-8.5	113	0.01
16		Tert Butyl Alcohol	0.029	0.029	0.0	99	0.01
17		trans-1,2-Dichloroethene	0.409	0.459	-12.2	113	0.01
18		Acrylonitrile	0.089	0.082	7.9	90	0.00
19		Methyl Tert Butyl Ether	0.803	0.831	-3.5	104	0.00
20		Hexane	0.348	0.392	-12.6	118	0.01
21	P	1,1-Dichloroethane	0.487	0.527	-8.2	112	0.01
22		Vinyl acetate	0.540	0.558	-3.3	103	0.01
23		Di-isopropyl ether	0.978	1.040	-6.3	108	0.01
24		ETBE	0.930	0.978	-5.2	104	0.01
25		2,2-Dichloropropane	0.293	0.344	-17.4	113	0.00
26		cis-1,2-Dichloroethene	0.268	0.304	-13.4	109	0.01
27		2-Butanone	0.126	0.138	-9.5	105	0.01
28		Bromochloromethane	0.149	0.162	-8.7	105	0.02
29		Tetrahydrofuran	0.090	0.091	-1.1	100	0.01
30	C	Chloroform	0.501	0.552	-10.2	108	0.01
31		1,1,1-Trichloroethane	0.411	0.456	-10.9	114	0.01
32	S	Dibromofluoromethane	0.307	0.311	-1.3	96	0.01
33		Cyclohexane	0.440	0.475	-8.0	106	0.01
34		1,1-Dichloropropene	0.341	0.403	-18.2	118	0.01
35		Carbon Tetrachloride	0.351	0.404	-15.1	110	0.02
36	S	1,2-Dichloroethane-d4	0.417	0.419	-0.5	97	0.01
37		Benzene	0.907	1.012	-11.6	111	0.02
38		1,2-Dichloroethane	0.465	0.510	-9.7	107	0.02
39		TAME	0.813	0.850	-4.6	102	0.01
40		Trichloroethene	0.277	0.296	-6.9	105	0.01
41		Methylcyclohexane	0.405	0.379	6.4	93	0.01
42	C	1,2-Dichloropropane	0.272	0.255	6.3	94	0.01

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: VG497-CC491
Lab FileID: G0015916.D

43		Dibromomethane	0.193	0.168	13.0	87	0.01
44		1,4-Dioxane	0.003	0.002	33.3#	85	0.00
45		Bromodichloromethane	0.400	0.361	9.8	91	0.01
46		2-Nitropropane	0.097	0.084	13.4	80	0.02
47		2-Chloroethyl vinyl ether	0.181	0.160	11.6	85	0.01
48		4-Methyl-2-pentanone	0.269	0.241	10.4	84	0.01
49		cis-1,3-Dichloropropene	0.450	0.428	4.9	93	0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.02
51	S	Toluene-d8	1.274	1.251	1.8	82	0.01
52	C	Toluene	1.282	1.372	-7.0	92	0.02
53		trans-1,3-Dichloropropene	0.601	0.615	-2.3	91	0.01
54		1,1,2-Trichloroethane	0.285	0.281	1.4	86	0.02
55		Tetrachloroethene	0.355	0.387	-9.0	92	0.02
56		2-hexanone	0.261	0.268	-2.7	85	0.02
57		1,3-Dichloropropane	0.561	0.583	-3.9	89	0.01
58		Dibromochloromethane	0.356	0.378	-6.2	92	0.01
59		1,2-Dibromoethane	0.329	0.354	-7.6	88	0.02
60		1-Chlorohexane	0.469	0.512	-9.2	94	0.01
61	P	Chlorobenzene	0.872	0.930	-6.7	92	0.01
62		1,1,1,2-Tetrachloroethane	0.356	0.383	-7.6	95	0.01
63	C	Ethylbenzene	1.480	1.632	-10.3	94	0.02
64		m,p-Xylene	1.204	1.339	-11.2	96	0.02
65		o-Xylene	1.303	1.383	-6.1	91	0.02
66		Styrene	0.970	1.025	-5.7	94	0.01
67	P	Bromoform	0.226	0.257	-13.7	96	0.01
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.02
69		Isopropylbenzene	2.459	2.658	-8.1	95	0.02
70		Cyclohexanone	0.028	0.022	21.4#	72	0.00
71	S	4-Bromofluorobenzene	1.111	1.054	5.1	80	0.02
72		Bromobenzene	0.724	0.755	-4.3	92	0.02
73	P	1,1,2,2-Tetrachloroethane	0.789	0.799	-1.3	89	0.01
74		1,2,3-Trichloropropane	0.244	0.244	0.0	84	0.02
75		trans-1,4-Dichloro-2-Butene	0.314	0.284	9.6	77	0.01
76		n-Propylbenzene	3.198	3.425	-7.1	93	0.02
77		2-Chlorotoluene	2.139	2.225	-4.0	93	0.02
78		4-Chlorotoluene	2.473	2.604	-5.3	93	0.02
79		1,3,5-Trimethylbenzene	2.260	2.501	-10.7	96	0.02
80		sec-Butylbenzene	2.760	2.918	-5.7	96	0.01
81		1,3-Dichlorobenzene	1.330	1.408	-5.9	93	0.02
82		4-Isopropyltoluene	2.374	2.458	-3.5	94	0.02
83		1,4-Dichlorobenzene	1.341	1.403	-4.6	92	0.01
84		tert-Butylbenzene	1.546	1.677	-8.5	94	0.02
85		n-Butylbenzene	2.363	2.531	-7.1	95	0.02
86		1,2-Dichlorobenzene	1.284	1.364	-6.2	94	0.03
87		1,2,4-Trimethylbenzene	2.381	2.549	-7.1	93	0.02
88		1,2-Dibromo-3-Chloropropane	0.172	0.173	-0.6	85	0.01
89		1,2,4-Trichlorobenzene	1.008	1.056	-4.8	94	0.01
90		Hexachlorobutadiene	0.409	0.415	-1.5	88	0.01
91		Naphthalene	2.227	2.334	-4.8	92	0.01
92		1,2,3-Trichlorobenzene	0.939	0.948	-1.0	90	0.02

Average % D = 7.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0

G0015806.D 624.M Tue Apr 16 08:53:24 2002 RP1

GC/MS Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-BS	W009497.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.9	74	60-125
59-50-7	4-Chloro-3-methyl phe	50	38.4	77	70-125
120-83-2	2,4-Dichlorophenol	50	40.0	80	68-125
105-67-9	2,4-Dimethylphenol	50	28.3	57	42-125
51-28-5	2,4-Dinitrophenol	50	35.8	72	10-125
534-52-1	4,6-Dinitro-o-cresol	50	37.8	76	46-125
95-48-7	2-Methylphenol	50	35.6	71	51-125
	3&4-Methylphenol	100	65.8	66	46-125
88-75-5	2-Nitrophenol	50	39.6	79	64-125
100-02-7	4-Nitrophenol	50	17.7	35	17-125
87-86-5	Pentachlorophenol	50	36.8	74	60-125
108-95-2	Phenol	50	20.3	41	16-125
95-95-4	2,4,5-Trichlorophenol	50	40.8	82	74-125
88-06-2	2,4,6-Trichlorophenol	50	39.6	79	70-125
83-32-9	Acenaphthene	50	39.5	79	70-125
208-96-8	Acenaphthylene	50	47.0	94	75-125
120-12-7	Anthracene	50	42.4	85	75-125
56-55-3	Benzo(a)anthracene	50	41.2	82	75-125
50-32-8	Benzo(a)pyrene	50	43.0	86	75-125
205-99-2	Benzo(b)fluoranthene	50	40.7	81	75-125
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	57-135
207-08-9	Benzo(k)fluoranthene	50	40.3	81	75-125
101-55-3	4-Bromophenyl phenyl	50	41.7	83	74-125
85-68-7	Butyl benzyl phthalat	50	39.7	79	38-134
100-51-6	Benzyl Alcohol	50	35.2	70	30-125
91-58-7	2-Chloronaphthalene	50	41.7	83	59-125
106-47-8	4-Chloroaniline	50	41.8	84	31-125
86-74-8	Carbazole	50	41.6	83	75-125
218-01-9	Chrysene	50	40.7	81	75-125
111-91-1	bis(2-Chloroethoxy)me	50	40.2	80	64-125
111-44-4	bis(2-Chloroethyl)eth	50	40.6	81	62-125
108-60-1	bis(2-Chloroisopropyl	50	43.1	86	60-125
7005-72-3	4-Chlorophenyl phenyl	50	41.5	83	75-125
95-50-1	1,2-Dichlorobenzene	50	38.7	77	35-125
541-73-1	1,3-Dichlorobenzene	50	35.5	71	30-125
106-46-7	1,4-Dichlorobenzene	50	36.7	73	32-125

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-BS	W009497.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	41.1	82	73-125
606-20-2	2,6-Dinitrotoluene	50	41.9	84	75-125
91-94-1	3,3'-Dichlorobenzidir	50	41.9	84	55-125
53-70-3	Dibenzo(a,h)anthracer	50	44.2	88	64-130
132-64-9	Dibenzofuran	50	39.2	78	73-125
84-74-2	Di-n-butyl phthalate	50	42.0	84	47-140
117-84-0	Di-n-octyl phthalate	50	40.8	82	52-125
84-66-2	Diethyl phthalate	50	40.0	80	59-125
131-11-3	Dimethyl phthalate	50	39.8	80	24-142
117-81-7	bis(2-Ethylhexyl)phtl	50	41.8	84	71-125
206-44-0	Fluoranthene	50	41.5	83	75-125
86-73-7	Fluorene	50	41.1	82	75-125
118-74-1	Hexachlorobenzene	50	41.8	84	74-125
87-68-3	Hexachlorobutadiene	50	31.5	63	22-125
77-47-4	Hexachlorocyclopentad	50	23.6	47	10-125
67-72-1	Hexachloroethane	50	32.8	66	23-125
193-39-5	Indeno(1,2,3-cd)pyrer	50	45.1	90	53-130
78-59-1	Isophorone	50	40.1	80	63-125
91-57-6	2-Methylnaphthalene	50	38.7	77	51-125
88-74-4	2-Nitroaniline	50	40.5	81	75-125
99-09-2	3-Nitroaniline	50	37.9	76	62-125
100-01-6	4-Nitroaniline	50	41.9	84	67-125
91-20-3	Naphthalene	50	41.2	82	53-125
98-95-3	Nitrobenzene	50	41.8	84	67-125
621-64-7	N-Nitroso-di-n-propyl	50	40.9	82	61-125
86-30-6	N-Nitrosodiphenylamir	50	44.1	88	75-125
85-01-8	Phenanthrene	50	40.6	81	75-125
129-00-0	Pyrene	50	38.4	77	67-125
120-82-1	1,2,4-Trichlorobenzer	50	39.0	78	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	20-125%
4165-62-2	Phenol-d5	37%	10-125%
118-79-6	2,4,6-Tribromophenol	83%	35-140%

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-BS[a]	W009497.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	46-125%
321-60-8	2-Fluorobiphenyl	81%	46-125%
1718-51-0	Terphenyl-d14	81%	49-126%

(a) Insufficient sample for MS/MSD.

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

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	25	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: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

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	58%	20-125%
4165-62-2	Phenol-d5	40%	10-125%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	93%	35-140%
4165-60-0	Nitrobenzene-d5	88%	46-125%
321-60-8	2-Fluorobiphenyl	84%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

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	25	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: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

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	58%	20-125%
4165-62-2	Phenol-d5	39%	10-125%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12851-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	90%	35-140%
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	85%	46-125%
1718-51-0	Terphenyl-d14	87%	49-126%

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0)	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6)	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9)	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8)	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
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
F12851-1	W009522.D	04/23/02	11:22	01:19	CB3045
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
ZZZZZZ	W009528.D	04/23/02	14:24	04:21	(unrelated sample)
ZZZZZZ	W009529.D	04/23/02	14:54	04:51	(unrelated sample)
ZZZZZZ	W009530.D	04/23/02	15:24	05:21	(unrelated sample)
ZZZZZZ	W009531.D	04/23/02	15:54	05:51	(unrelated sample)
ZZZZZZ	W009532.D	04/23/02	16:25	06:22	(unrelated sample)
ZZZZZZ	W009533.D	04/23/02	16:54	06:51	(unrelated sample)
ZZZZZZ	W009534.D	04/23/02	17:24	07:21	(unrelated sample)
ZZZZZZ	W009535.D	04/23/02	17:55	07:52	(unrelated sample)
ZZZZZZ	W009536.D	04/23/02	18:25	08:22	(unrelated sample)
ZZZZZZ	W009537.D	04/23/02	18:55	08:52	(unrelated sample)
ZZZZZZ	W009538.D	04/23/02	19:24	09:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job 1
ZZZZZZ	W009542.D	04/23/02	21:25	11:22	(unrelated sample)
ZZZZZZ	W009543.D	04/23/02	21:55	11:52	(unrelated sample)
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job 1
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW518-DFTPP **Injection Date:** 04/11/02
Lab File ID: W009333.D **Injection Time:** 09:03
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1	Pass
68	Less than 2.0% of mass 69	218	0.1 (0.29[a])	Pass
69	Mass 69 relative abundance	74456	35.3	Pass
70	Less than 2.0% of mass 69	377	0.18 (0.51[a])	Pass
127	40.0 - 60.0% of mass 198	92498	43.8	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	211051	100.0	Pass
199	5.0 - 9.0% of mass 198	14373	6.8	Pass
275	10.0 - 30.0% of mass 198	45157	21.4	Pass
365	1.0 - 100.0% of mass 198	4255	2.0	Pass
441	Present, but less than mass 443	28291	13.4 (76.9[b])	Pass
442	40.0 - 100.0% of mass 198	187979	89.1	Pass
443	17.0 - 23.0% of mass 442	36795	17.4 (19.6[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
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job 1
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job 1
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW526-DFTPP	**Injection Date:**	04/22/02
Lab File ID:	W009493.D	**Injection Time:**	13:21
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	80554	49.3	Pass
68	Less than 2.0% of mass 69	337	0.21 (0.58%)	Pass
69	Mass 69 relative abundance	58453	35.8	Pass
70	Less than 2.0% of mass 69	195	0.12 (0.33%)	Pass
127	40.0 - 60.0% of mass 198	72762	44.6	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	163264	100.0	Pass
199	5.0 - 9.0% of mass 198	10974	6.7	Pass
275	10.0 - 30.0% of mass 198	34960	21.4	Pass
365	1.0 - 100.0% of mass 198	3471	2.1	Pass
441	Present, but less than mass 443	21669	13.3 (79.7%)	Pass
442	40.0 - 100.0% of mass 198	143703	88.0	Pass
443	17.0 - 23.0% of mass 442	27205	16.7 (18.9%)	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
SW526-CC518	W009494.D	04/22/02	13:40	00:19	Continuing cal 75
OP5008-MB	W009495.D	04/22/02	14:11	00:50	Method Blank
ZZZZZZ	W009496.D	04/22/02	14:41	01:20	(unrelated sample)
OP4979-BS	W009497.D	04/22/02	15:12	01:51	Blank Spike
OP4979-MB	W009498.D	04/22/02	15:42	02:21	Method Blank
ZZZZZZ	W009500.D	04/22/02	16:44	03:23	(unrelated sample)
ZZZZZZ	W009501.D	04/22/02	17:14	03:53	(unrelated sample)
ZZZZZZ	W009502.D	04/22/02	17:45	04:24	(unrelated sample)
ZZZZZZ	W009503.D	04/22/02	18:16	04:55	(unrelated sample)
ZZZZZZ	W009504.D	04/22/02	18:46	05:25	(unrelated sample)
ZZZZZZ	W009505.D	04/22/02	19:18	05:57	(unrelated sample)
ZZZZZZ	W009506.D	04/22/02	19:48	06:27	(unrelated sample)
ZZZZZZ	W009507.D	04/22/02	20:18	06:57	(unrelated sample)
ZZZZZZ	W009508.D	04/22/02	20:49	07:28	(unrelated sample)
ZZZZZZ	W009509.D	04/22/02	21:20	07:59	(unrelated sample)
ZZZZZZ	W009510.D	04/22/02	21:51	08:30	(unrelated sample)
ZZZZZZ	W009511.D	04/22/02	22:21	09:00	(unrelated sample)
ZZZZZZ	W009512.D	04/22/02	22:52	09:31	(unrelated sample)
ZZZZZZ	W009513.D	04/22/02	23:22	10:01	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW526-DFTPP	**Injection Date:**	04/22/02
Lab File ID:	W009493.D	**Injection Time:**	13:21
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009514.D	04/22/02	23:53	10:32	(unrelated sample)
ZZZZZZ	W009515.D	04/23/02	00:24	11:03	(unrelated sample)
ZZZZZZ	W009516.D	04/23/02	00:54	11:33	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	259341	5.19	912494	6.42	433150	8.78	536865	11.32	302343	16.26	199447	18.76
Upper Limit	518682	5.69	1824988	6.92	866300	9.28	1073730	11.82	604686	16.76	398894	19.26
Lower Limit	129671	4.69	456247	5.92	216575	8.28	268433	10.82	151172	15.76	99724	18.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4979-MB	253840	5.19	896872	6.42	421422	8.78	533865	11.31	337085	16.25	209473	18.75
F12851-1	246551	5.19	852067	6.42	403848	8.78	498963	11.31	301638	16.24	193370	18.75
ZZZZZZ	245553	5.19	843939	6.41	392646	8.78	480502	11.31	297606	16.24	192611	18.75
ZZZZZZ	257326	5.19	903992	6.41	435169	8.77	543476	11.31	344822	16.25	223659	18.75
OP4993-BS	234760	5.19	815524	6.42	377077	8.78	469730	11.31	275814	16.25	195065	18.75
OP4993-MB	241156	5.19	860373	6.41	408147	8.78	514950	11.31	327166	16.24	206929	18.75
ZZZZZZ	258616	5.19	890818	6.42	426858	8.78	518945	11.31	312429	16.25	196116	18.75
ZZZZZZ	241752	5.19	807181	6.42	365349	8.78	425282	11.32	244711	16.25	171978	18.76
ZZZZZZ	199444	5.19	659395	6.42	294914	8.78	355167	11.32	243582	16.26	178606	18.76
ZZZZZZ	229066	5.19	818603	6.42	391312	8.78	475830	11.31	302677	16.25	194352	18.76
ZZZZZZ	255637	5.19	889861	6.41	433120	8.78	543199	11.31	337194	16.25	209347	18.75
ZZZZZZ	238509	5.19	839521	6.42	397164	8.78	489377	11.31	309934	16.25	200598	18.75
ZZZZZZ	242231	5.19	840595	6.42	403441	8.78	497498	11.31	297831	16.25	189009	18.75
ZZZZZZ	208193	5.19	683077	6.42	302708	8.78	358078	11.32	241373	16.26	175200	18.76
ZZZZZZ	263053	5.19	923033	6.42	441106	8.78	552182	11.31	344758	16.25	211109	18.76
ZZZZZZ	243365	5.19	852340	6.42	390661	8.78	501427	11.31	315697	16.25	204562	18.75
ZZZZZZ	255982	5.19	886610	6.42	420898	8.78	527416	11.32	334342	16.25	204951	18.75
ZZZZZZ	243087	5.19	862067	6.41	407569	8.77	503719	11.31	318686	16.25	200827	18.75
F12899-2	237783	5.19	833382	6.41	387453	8.78	492519	11.31	304364	16.25	193916	18.75
ZZZZZZ	254705	5.19	866710	6.42	409782	8.78	509097	11.31	322923	16.25	204805	18.75
ZZZZZZ	226499	5.19	773782	6.42	357997	8.78	451904	11.31	289234	16.25	194811	18.75
OP5023-BS	264429	5.19	922367	6.41	441886	8.78	536864	11.31	310342	16.26	209005	18.76
OP5023-MB	231871	5.19	809279	6.42	384930	8.77	469976	11.31	291635	16.25	188431	18.75
F12946-11	245243	5.19	875236	6.41	408086	8.78	497064	11.31	313368	16.24	203875	18.75
OP5023-MS	256126	5.19	899377	6.42	439354	8.78	528716	11.31	303510	16.25	206398	18.75
OP5023-MSD	254868	5.19	907368	6.42	429728	8.78	527860	11.31	308137	16.25	201945	18.75

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.

Semivolatile Internal Standard Area Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recovery within control limits in MS/MSD.

Semivolatile Internal Standard Area Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW526-CC518	**Injection Date:**	04/22/02
Lab File ID:	W009494.D	**Injection Time:**	13:40
Instrument ID:	GCMSW	**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	202902	5.20	713142	6.42	334824	8.78	415124	11.32	240178	16.26	173419	18.76
Upper Limit[a]	405804	5.70	1426284	6.92	669648	9.28	830248	11.82	480356	16.76	346838	19.26
Lower Limit[b]	101451	4.70	356571	5.92	167412	8.28	207562	10.82	120089	15.76	86710	18.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP5008-MB	235054	5.19	835732	6.42	401101	8.78	515262	11.31	336772	16.25	220334	18.76
ZZZZZZ	206280	5.19	698254	6.42	349007	8.78	438907	11.31	292276	16.25	195645	18.76
OP4979-BS[c]	233425	5.20	819964	6.42	387387	8.78	468249	11.32	279134	16.25	190675	18.75
OP4979-MB	223600	5.19	797198	6.42	382703	8.78	472465	11.31	318004	16.25	210877	18.76
ZZZZZZ	251097	5.19	883670	6.42	426448	8.78	536401	11.31	355755	16.25	232269	18.76
ZZZZZZ	251388	5.19	884984	6.42	419643	8.78	529081	11.31	343186	16.25	224694	18.76
ZZZZZZ	257869	5.19	902293	6.42	431874	8.78	542316	11.32	360971	16.25	235987	18.76
ZZZZZZ	234491	5.19	844792	6.42	397779	8.78	494077	11.31	319674	16.25	214817	18.76
ZZZZZZ	258433	5.19	895897	6.41	428700	8.77	528908	11.31	344711	16.25	221951	18.75
ZZZZZZ	241992	5.19	858092	6.42	406095	8.78	502288	11.31	325223	16.25	216802	18.76
ZZZZZZ	240584	5.19	838028	6.42	398629	8.78	487750	11.31	318484	16.25	207169	18.76
ZZZZZZ	272062	5.19	964759	6.42	458448	8.78	583425	11.31	368730	16.25	240366	18.76
ZZZZZZ	247651	5.19	866227	6.42	418325	8.77	517768	11.31	326053	16.25	218681	18.75
ZZZZZZ	251822	5.19	881555	6.42	411684	8.78	513682	11.32	332541	16.25	220022	18.75
ZZZZZZ	264399	5.19	931233	6.42	440206	8.78	543535	11.31	349645	16.25	226513	18.76
ZZZZZZ	241239	5.19	859344	6.41	408966	8.77	509192	11.31	329004	16.25	211420	18.75
ZZZZZZ	244058	5.19	865734	6.42	403265	8.77	507845	11.31	325059	16.25	213020	18.75
ZZZZZZ	265044	5.19	917110	6.41	429151	8.78	526263	11.31	319074	16.25	212312	18.75
ZZZZZZ	235138	5.19	820574	6.42	387289	8.78	483775	11.31	312417	16.25	204298	18.75
ZZZZZZ	265416	5.19	941699	6.42	440649	8.78	548194	11.32	361674	16.25	232140	18.76
ZZZZZZ	256049	5.19	895238	6.41	420939	8.77	527278	11.31	332894	16.25	219454	18.75

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.
(c) Insufficient sample for MS/MSD.

Semivolatile Surrogate Recovery Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12851-1	W009522.D	38.0	27.0	81.0	63.0	69.0	84.0
OP4979-BS	W009497.D	54.0	37.0	83.0	80.0	81.0	81.0
OP4979-MB	W009498.D	58.0	40.0	93.0	88.0	84.0	84.0
OP4979-MB	W009521.D	58.0	39.0	90.0	86.0	85.0	87.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

Initial Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW518-ICC518
Lab FileID: W009337.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:51:43 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------ISTD----------							
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22

Initial Calibration Summary

Job Number: F12851 **Sample:** SW518-ICC518
Account: ITTNKNOX IT Corporation **Lab FileID:** W009337.D
Project: Plum Brook Ordnance WKS.

45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.5

(#) = Out of Range

8270C.M Thu Apr 11 16:38:38 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: SW527-CC518
Lab FileID: W009520.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01
44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W009334.D 8270C.M Wed Apr 24 13:53:45 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW526-CC518
Lab FileID: W009494.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042202\W009494.D
Acq On : 22 Apr 2002 1:40 pm
Sample : cc518-75
Misc : op5008,sw526,100,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
2		1,4-Dioxane	0.445	0.441	0.9	77	0.00
3		N-nitrosodimethylamine	0.558	0.539	3.4	71	-0.08
4		Pyridine	1.008	0.951	5.7	73	-0.07
5		Benzaldehyde	0.502	0.550	-9.6	101	0.00
6		Aniline	1.505	1.388	7.8	79	-0.01
7	S	2-Fluorophenol	1.207	1.145	5.1	81	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.262	0.3	81	0.00
9	S	Phenol-d5	1.457	1.364	6.4	81	0.00
10	C	Phenol	1.599	1.486	7.1	82	0.00
11		2-Chlorophenol	1.394	1.342	3.7	80	0.00
12		1,3-Dichlorobenzene	1.523	1.454	4.5	81	0.00
13	C	1,4-Dichlorobenzene	1.484	1.458	1.8	83	0.00
14		1,2-Dichlorobenzene	1.387	1.361	1.9	82	0.00
15		Benzyl alcohol	0.859	0.829	3.5	80	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.797	0.3	86	0.00
17		2-Methylphenol	1.143	1.067	6.6	79	0.00
18		Acetophenone	1.539	1.416	8.0	81	0.00
19		Hexachloroethane	0.548	0.536	2.2	82	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.726	8.3	79	0.00
21		3&4-Methylphenol	1.094	1.010	7.7	82	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
23	S	Nitrobenzene-d5	0.369	0.356	3.5	79	0.00
24		Nitrobenzene	0.351	0.341	2.8	80	0.00
25		Isophorone	0.640	0.597	6.7	78	0.00
26	C	2-Nitrophenol	0.212	0.205	3.3	81	0.00
27		2,4-Dimethylphenol	0.344	0.316	8.1	77	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.368	5.2	82	0.00
29		Benzoic Acid	0.247	0.256	-3.6	78	0.03
30	C	2,4-Dichlorophenol	0.304	0.296	2.6	82	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	80	0.00
32		Naphthalene	0.959	0.926	3.4	81	0.00
33		4-Chloroaniline	0.350	0.328	6.3	81	0.00
34		2,6-Dichlorophenol	0.288	0.275	4.5	81	0.00
35	C	Hexachlorobutadiene	0.179	0.172	3.9	81	0.00
36		Caprolactam	0.194	0.185	4.6	78	-0.01
37	C	4-Chloro-3-methylphenol	0.276	0.259	6.2	78	0.00
38		2-Methylnaphthalene	0.647	0.623	3.7	80	0.00
39		1-Methylnaphthalene	0.614	0.577	6.0	78	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.263	4.4	82	0.00

Continuing Calibration Summary

Job Number: F12851 **Sample:** SW526-CC518
Account: ITTNKNOX IT Corporation **Lab FileID:** W009494.D
Project: Plum Brook Ordnance WKS.

41	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.279	1.1	73	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.394	2.7	77	0.00
44		2,4,5-Trichlorophenol	0.423	0.425	-0.5	80	0.00
45	S	2-Fluorobiphenyl	1.362	1.335	2.0	80	0.00
46		1,1'-Biphenyl	1.455	1.433	1.5	80	0.00
47		2-Chloronaphthalene	1.182	1.184	-0.2	81	0.00
48		2-Nitroaniline	0.357	0.355	0.6	78	0.00
49		Acenaphthylene	1.551	1.530	1.4	78	0.00
50		Dimethylphthalate	1.254	1.208	3.7	76	0.00
51		2,6-Dinitrotoluene	0.292	0.287	1.7	76	0.00
52	C	Acenaphthene	1.083	1.060	2.1	79	0.00
53		3-Nitroaniline	0.319	0.320	-0.3	76	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	71	0.00
55		Dibenzofuran	1.534	1.473	4.0	79	0.00
56		2,4-Dinitrotoluene	0.348	0.333	4.3	77	0.00
57	P	4-Nitrophenol	0.142	0.136	4.2	74	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.270	3.9	76	0.00
59		Fluorene	1.173	1.159	1.2	80	0.00
60		4-Chlorophenyl-phenylether	0.544	0.531	2.4	80	0.00
61		Diethylphthalate	1.121	1.057	5.7	74	0.00
62		4-Nitroaniline	0.281	0.293	-4.3	82	0.00
63	I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.170	2.3	74	-0.02
65	C	n-Nitrosodiphenylamine	0.622	0.618	0.6	78	0.00
66		1,2-Diphenylhydrazine	0.886	0.871	1.7	77	-0.01
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	76	-0.01
68		4-Bromophenyl-phenylether	0.213	0.209	1.9	76	0.00
69		Hexachlorobenzene	0.213	0.210	1.4	79	0.00
70		Atrazine	0.095	0.080	15.8	68	0.00
71	C	Pentachlorophenol	0.131	0.129	1.5	73	0.00
72		Phenanthrene	1.155	1.112	3.7	77	0.00
73		Anthracene	1.146	1.116	2.6	78	0.00
74		Carbazole	1.095	1.065	2.7	77	0.00
75		Di-n-butylphthalate	1.238	1.205	2.7	76	0.02
76	C	Fluoranthene	1.088	1.053	3.2	79	0.02
77	I	Chrysene-d12	1.000	1.000	0.0	83	0.00
78		Benzidine	0.192	0.215	-12.0	116	-0.01
79		Pyrene	1.874	1.827	2.5	78	-0.02
80	S	Terphenyl-d14	1.108	1.070	3.4	77	-0.01
81		Butylbenzylphthalate	0.761	0.748	1.7	77	0.00
82		3,3'-Dichlorobenzidine	0.346	0.384	-11.0	95	0.00
83		Benzo[a]anthracene	1.303	1.280	1.8	79	0.00
84		Chrysene	1.276	1.258	1.4	79	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.955	-0.7	78	0.00
86	I	Perylene-d12	1.000	1.000	0.0	84	0.00
87	C	Di-n-octylphthalate	2.177	2.145	1.5	80	0.00
88		Benzo[b]fluoranthene	1.460	1.421	2.7	81	0.00
89		Benzo[k]fluoranthene	1.498	1.436	4.1	84	0.00
90	C	Benzo[a]pyrene	1.267	1.289	-1.7	86	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	1.105	-16.9	99	0.00
92		Dibenz[a,h]anthracene	1.019	1.144	-12.3	94	0.01
93		Benzo[g,h,i]perylene	1.028	1.147	-11.6	97	0.00

Average % D = 4.1

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW526-CC518
Lab FileID: W009494.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W009337.D 8270C.M Mon Apr 22 16:38:38 2002 MSBNA01

GC Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4971-BS[a]	GG002948.D	1	04/16/02	MRE	04/15/02	OP4971	GGG150

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12851-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.5	100	80-120
121-82-4	RDX	2.5	2.3	92	80-120
99-65-0	1,3-Dinitrobenzene	2.5	2.4	96	80-120
606-20-2	2,6-Dinitrotoluene	2.5	2.8	112	80-120
121-14-2	2,4-Dinitrotoluene	2.5	2.2	88	80-120
35572-78-2	2-amino-4,6-Dinitrotc	2.5	2.4	96	80-120
19406-51-0	4-amino-2,6-Dinitrotc	2.5	2.4	96	80-120
98-95-3	Nitrobenzene	2.5	2.3	92	80-120
88-72-2	o-Nitrotoluene	2.5	2.2	88	74-120
99-08-1	m-Nitrotoluene	2.5	2.2	88	76-120
99-99-0	p-Nitrotoluene	2.5	2.3	92	76-120
479-45-8	Tetryl	2.5	2.6	104	74-120
99-35-4	1,3,5-Trinitrobenzene	2.5	2.4	96	80-120
118-96-7	2,4,6-Trinitrotoluene	2.5	2.4	96	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	99%	58-131%

(a) Insufficient sample for MS/MSD.

Blank Spike Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-BS	GG003074.D		04/26/02	MRE	04/24/02	OP5028	GGG156

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12851-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	103%	58-131%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4971-MB	GG002949.D	1	04/16/02	MRE	04/15/02	OP4971	GGG150

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12851-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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	93%	58-131%

Method Blank Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-MB	GG003075.D1		04/26/02	MRE	04/24/02	OP5028	GGG156

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12851-1

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	74%	58-131%

Semivolatile Surrogate Recovery Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F12851-1	GG003076.D	22.0*
F12851-1	GG002950.D	12.0*
OP4971-BS	GG002948.D	99.0
OP4971-MB	GG002949.D	93.0
OP5028-BS	GG003074.D	103.0
OP5028-MB	GG003075.D	74.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	58-131%

(a) Recovery from GC signal #1
(b) Surrogates outside of control limits, all values should be considered estimated.

GC Surrogate Retention Time Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG150-CC150	**Injection Date:**	04/16/02
Lab File ID:	GG002947.D	**Injection Time:**	14:25
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	13.72

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP4971-BS	GG002948.D	04/16/02	14:53	13.66
OP4971-MB	GG002949.D	04/16/02	15:21	13.63
F12851-1	GG002950.D	04/16/02	15:49	13.65

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG156-CC150	**Injection Date:**	04/26/02
Lab File ID:	GG003073.D	**Injection Time:**	11:42
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	14.03	14.03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP5028-BS	GG003074.D	04/26/02	12:14	14.05	
OP5028-MB	GG003075.D	04/26/02	12:46	14.02	
F12851-1	GG003076.D	04/26/02	13:18	14.03	
ZZZZZZ	GG003077.D	04/26/02	13:50	14.02	
GGG156-ECC150	GG003079.D	04/26/02	15:52	14.04	14.04

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: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-ICC150
Lab FileID: GG002910.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Apr 17 09:04:04 2002
Response via : Initial Calibration

Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	3.208	3.005	2.931	2.974	2.912	2.973	3.000	E3	3.57
2)		RDX	4.439	3.889	3.862	3.700	3.628	3.673	3.865	E3	7.77
3)		1,3,5-Trinitrobenze	8.300	7.994	7.858	7.651	7.723	7.922	7.908	E3	2.91
4)		1,3-Dinitrobenzene	1.145	1.080	1.070	1.040	1.052	1.062	1.075	E4	3.47
5)		Tetryl	6.230	6.384	6.202	5.818	5.903	5.939	6.080	E3	3.68
6)		Nitrobenzene	7.310	6.837	6.709	6.491	6.645	6.672	6.777	E3	4.19
7)	S	3,4-Dinitrotoluene	5.007	5.095	4.865	4.751	4.894	4.872	4.914	E3	2.45
8)		2,4,6-Trinitrotolue	7.446	7.453	7.161	7.004	7.126	7.178	7.228	E3	2.52
9)		4-Amino-2,6-Dinitro	4.860	5.051	4.779	4.688	4.789	4.778	4.824	E3	2.57
10)		2-Amino-4,6-Dinitro	6.456	6.662	6.333	6.240	6.312	6.347	6.392	E3	2.34
11)		2,6-Dinitrotoluene	5.076	5.080	5.001	5.037	5.045	4.952	5.032	E3	0.97
12)		2,4-Dinitrotoluene	9.639	9.900	9.193	9.189	9.059	9.185	9.361	E3	3.54
13)		o-Nitrotoluene	4.600	4.138	4.187	3.985	4.002	4.105	4.170	E3	5.40
14)		p-Nitrotoluene	3.657	3.491	3.566	3.367	3.352	3.486	3.486	E3	3.34
15)		m-Nitrotoluene	4.705	4.511	4.564	4.338	4.389	4.484	4.499	E3	2.90

Signal #2 Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	9.471	9.091	8.622	8.402	8.401	8.634	8.770	E3	4.86
2)		RDX		7.225	6.578	6.341	6.356	6.336	6.568	E3	5.81
3)		1,3,5-Trinitrobenze	1.666	1.599	1.599	1.545	1.569	1.597	1.596	E4	2.54
4)		1,3-Dinitrobenzene	1.379	1.296	1.283	1.246	1.261	1.274	1.290	E4	3.64
5)		Tetryl	1.101	1.115	1.088	1.033	1.042	1.056	1.073	E4	3.11
6)		Nitrobenzene	3.341	2.878	2.860	2.744	2.824	2.831	2.913	E3	7.37
7)	S	3,4-Dinitrotoluene	6.912	6.805	6.674	6.507	6.616	6.651	6.694	E3	2.15
8)		2,4,6-Trinitrotolue	1.117	1.083	1.053	1.032	1.043	1.058	1.064	E4	2.91
9)		4-Amino-2,6-Dinitro	1.377	1.335	1.290	1.271	1.279	1.296	1.308	E4	3.10
10)		2-Amino-4,6-Dinitro	1.138	1.090	1.051	1.039	1.043	1.058	1.070	E4	3.55
11)		2,6-Dinitrotoluene	7.440	7.508	7.249	7.070	7.170	7.207	7.274	E3	2.30
12)		2,4-Dinitrotoluene	9.096	8.104	7.952	7.787	7.877	7.949	8.128	E3	5.98
13)		o-Nitrotoluene	4.788	4.444	4.373	4.281	4.297	4.375	4.426	E3	4.21
14)		p-Nitrotoluene	7.137	6.933	6.940	6.744	6.754	6.918	6.904	E3	2.10
15)		m-Nitrotoluene	7.076	6.673	6.667	6.465	6.510	6.618	6.668	E3	3.25

Average % RSD = 3.6

(#) = Out of Range

8330_EX.M Wed Apr 17 15:20:31 2002

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-CC150
Lab FileID: GG002947.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0415EXP\GG002947.D\DAD1B.CH Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0415EXP\GG002947.D\DAD1A.CH
Acq On : 16-Apr-2002, 14:25:12 Operator: MIKEE
Sample : CC150-300 Inst : G1315B
Misc : op4746,ggg150,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Apr 17 08:54:55 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	298.940	0.4	101	-0.01
2		RDX	300.000	284.127	5.3	99	0.00
3		1,3,5-Trinitrobenzene	300.000	290.489	3.2	100	0.00
4		1,3-Dinitrobenzene	300.000	289.630	3.5	100	0.02
5		Tetryl	300.000	287.263	4.2	100	-0.02
6		Nitrobenzene	300.000	285.922	4.7	100	0.00
7	S	3,4-Dinitrotoluene	300.000	294.018	2.0	101	0.00
8		2,4,6-Trinitrotoluene	300.000	291.402	2.9	100	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	290.188	3.3	100	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	289.689	3.4	99	0.00
11		2,6-Dinitrotoluene	300.000	291.688	2.8	97	-0.02
12		2,4-Dinitrotoluene	300.000	273.288	8.9	93	0.00
13		o-Nitrotoluene	300.000	288.297	3.9	101	0.00
14		p-Nitrotoluene	300.000	304.281	-1.4	105	0.00
15		m-Nitrotoluene	300.000	290.418	3.2	100	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	288.058	4.0	100	-0.01
2		RDX	300.000	293.700	2.1	101	0.00
3		1,3,5-Trinitrobenzene	300.000	288.705	3.8	99	0.00
4		1,3-Dinitrobenzene	300.000	289.601	3.5	100	0.02
5		Tetryl	300.000	289.035	3.7	100	-0.02
6		Nitrobenzene	300.000	279.319	6.9	99	0.00
7	S	3,4-Dinitrotoluene	300.000	292.975	2.3	100	0.01
8		2,4,6-Trinitrotoluene	300.000	292.116	2.6	100	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	290.773	3.1	100	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	287.512	4.2	99	0.00
11		2,6-Dinitrotoluene	300.000	311.059	-3.7	107	0.00
12		2,4-Dinitrotoluene	300.000	268.414	10.5	93	0.00
13		o-Nitrotoluene	300.000	289.062	3.6	100	0.00
14		p-Nitrotoluene	300.000	295.931	1.4	101	0.00
15		m-Nitrotoluene	300.000	290.543	3.2	100	0.00

Average % D = 3.7

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-CC150
Lab FileID: GG002947.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002910.D 8330_EX.M Wed Apr 17 09:00:22 2002

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-CC150
Lab FileID: GG002958.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0415EXP\GG002958.D\DAD1B.CH Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0415EXP\GG002958.D\DAD1A.CH
Acq On : 16-Apr-2002, 19:37:09 Operator: MIKEE
Sample : CC150-300 Inst : G1315B
Misc : op4971,ggg150,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Apr 17 09:04:04 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	287.253	4.2	97	0.00
2		RDX	300.000	291.215	2.9	101	0.00
3		1,3,5-Trinitrobenzene	300.000	288.609	3.8	99	0.00
4		1,3-Dinitrobenzene	300.000	289.749	3.4	100	0.00
5		Tetryl	300.000	290.548	3.2	101	0.00
6		Nitrobenzene	300.000	286.492	4.5	100	0.00
7	S	3,4-Dinitrotoluene	300.000	292.773	2.4	101	0.00
8		2,4,6-Trinitrotoluene	300.000	289.369	3.5	100	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	286.713	4.4	98	0.01
10		2-Amino-4,6-Dinitrotoluene	300.000	285.566	4.8	98	0.00
11		2,6-Dinitrotoluene	300.000	289.595	3.5	96	0.06
12		2,4-Dinitrotoluene	300.000	256.897	14.4	87	0.00
13		o-Nitrotoluene	300.000	288.703	3.8	101	0.04
14		p-Nitrotoluene	300.000	288.739	3.8	100	-0.02
15		m-Nitrotoluene	300.000	287.893	4.0	100	-0.04

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	288.321	3.9	100	0.00
2		RDX	300.000	286.914	4.4	99	0.00
3		1,3,5-Trinitrobenzene	300.000	287.268	4.2	99	0.00
4		1,3-Dinitrobenzene	300.000	288.972	3.7	100	0.00
5		Tetryl	300.000	290.071	3.3	100	0.00
6		Nitrobenzene	300.000	273.773	8.7	97	0.00
7	S	3,4-Dinitrotoluene	300.000	291.307	2.9	100	0.00
8		2,4,6-Trinitrotoluene	300.000	290.409	3.2	100	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	288.153	3.9	99	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	284.130	5.3	98	0.00
11		2,6-Dinitrotoluene	300.000	320.374	-6.8	110	0.00
12		2,4-Dinitrotoluene	300.000	256.376	14.5	89	0.00
13		o-Nitrotoluene	300.000	289.617	3.5	100	0.02
14		p-Nitrotoluene	300.000	291.559	2.8	100	0.00
15		m-Nitrotoluene	300.000	289.165	3.6	99	0.00

Average % D = 4.7

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-CC150
Lab FileID: GG002958.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002910.D 8330_EX.M Wed Apr 17 09:14:36 2002

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-CC150
Lab FileID: GG003073.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0426EXP\GG003073.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0426EXP\GG003073.D\DAD1A.CH
Acq On : 26-Apr-2002, 11:42:38 Operator: MIKEE
Sample : CC150-200 Inst : G1315B
Misc : op5028,ggg156,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 26 13:15:30 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	200.000	196.257	1.9	100	0.00
2		RDX	200.000	191.364	4.3	96	0.00
3		1,3,5-Trinitrobenzene	200.000	193.790	3.1	98	0.00
4		1,3-Dinitrobenzene	200.000	194.720	2.6	98	0.00
5		Tetryl	200.000	196.781	1.6	96	0.00
6		Nitrobenzene	200.000	181.042	9.5	91	0.00
7	S	3,4-Dinitrotoluene	200.000	202.648	-1.3	102	0.00
8		2,4,6-Trinitrotoluene	200.000	188.909	5.5	95	0.00
9		4-Amino-2,6-Dinitrotoluene	200.000	193.843	3.1	98	0.00
10		2-Amino-4,6-Dinitrotoluene	200.000	192.984	3.5	97	0.00
11		2,6-Dinitrotoluene	200.000	194.257	2.9	98	0.02
12		2,4-Dinitrotoluene	200.000	193.713	3.1	99	0.00
13		o-Nitrotoluene	200.000	182.722	8.6	91	0.00
14		p-Nitrotoluene	200.000	183.981	8.0	90	0.01
15		m-Nitrotoluene	200.000	184.310	7.8	91	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	196.673	1.7	100	0.00
2		RDX	200.000	212.093	-6.0	106	0.00
3		1,3,5-Trinitrobenzene	200.000	192.351	3.8	96	0.00
4		1,3-Dinitrobenzene	200.000	194.449	2.8	98	0.00
5		Tetryl	200.000	196.397	1.8	97	0.00
6		Nitrobenzene	200.000	161.174	19.4#	82	0.00
7	S	3,4-Dinitrotoluene	200.000	200.497	-0.2	101	0.00
8		2,4,6-Trinitrotoluene	200.000	188.130	5.9	95	0.00
9		4-Amino-2,6-Dinitrotoluen	200.000	191.745	4.1	97	0.00
10		2-Amino-4,6-Dinitrotoluen	200.000	190.885	4.6	97	0.00
11		2,6-Dinitrotoluene	200.000	196.657	1.7	99	0.00
12		2,4-Dinitrotoluene	200.000	188.420	5.8	96	0.00
13		o-Nitrotoluene	200.000	185.556	7.2	94	-0.01
14		p-Nitrotoluene	200.000	186.716	6.6	93	0.00
15		m-Nitrotoluene	200.000	184.916	7.5	92	0.00

Average % D = 4.9

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-CC150
Lab FileID: GG003073.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002909.D 8330_EX.M Fri Apr 26 15:38:30 2002

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-ECC150
Lab FileID: GG003079.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0426EXP\GG003079.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0426EXP\GG003079.D\DAD1A.CH
Acq On : 26-Apr-2002, 15:52:32 Operator: MIKEE
Sample : ECC150-300 Inst : G1315B
Misc : op5028,ggg156,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 26 13:15:30 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	300.222	-0.1	101	0.00
2		RDX	300.000	288.291	3.9	100	0.00
3		1,3,5-Trinitrobenzene	300.000	292.991	2.3	101	0.00
4		1,3-Dinitrobenzene	300.000	296.680	1.1	102	0.00
5		Tetryl	300.000	311.529	-3.8	109	0.02
6		Nitrobenzene	300.000	274.061	8.6	95	0.00
7	S	3,4-Dinitrotoluene	300.000	304.845	-1.6	105	0.02
8		2,4,6-Trinitrotoluene	300.000	281.546	6.2	97	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	287.681	4.1	99	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	289.476	3.5	99	0.02
11		2,6-Dinitrotoluene	300.000	284.936	5.0	95	0.00
12		2,4-Dinitrotoluene	300.000	300.964	-0.3	102	0.00
13		o-Nitrotoluene	300.000	279.866	6.7	98	-0.03
14		p-Nitrotoluene	300.000	279.692	6.8	97	0.00
15		m-Nitrotoluene	300.000	283.699	5.4	98	-0.01

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	288.600	3.8	100	0.00
2		RDX	300.000	298.982	0.3	103	0.00
3		1,3,5-Trinitrobenzene	300.000	291.618	2.8	100	0.00
4		1,3-Dinitrobenzene	300.000	296.337	1.2	102	0.00
5		Tetryl	300.000	303.431	-1.1	105	0.00
6		Nitrobenzene	300.000	236.043	21.3#	84	0.00
7	S	3,4-Dinitrotoluene	300.000	301.835	-0.6	104	0.02
8		2,4,6-Trinitrotoluene	300.000	280.243	6.6	96	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	286.521	4.5	98	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	285.254	4.9	98	0.01
11		2,6-Dinitrotoluene	300.000	299.569	0.1	103	0.03
12		2,4-Dinitrotoluene	300.000	278.840	7.1	97	0.00
13		o-Nitrotoluene	300.000	285.564	4.8	98	-0.03
14		p-Nitrotoluene	300.000	288.303	3.9	98	0.00
15		m-Nitrotoluene	300.000	286.836	4.4	99	-0.01

Average % D = 4.2

Continuing Calibration Summary

Job Number: F12851
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-ECC150
Lab FileID: GG003079.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002910.D 8330_EX.M Fri Apr 26 16:12:39 2002

Metals Analysis

QC Data Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0412W1.HGX Date Analyzed: 04/12/02 Methods: SW846 7470A
Analyst: LIR Run ID: MA2766
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2766-ICV1	1		
00:00	MA2766-ICB1	1		
00:00	MA2766-CCV1	1		
00:00	MA2766-CCB1	1		
00:00	MA2766-CRI1	1		
00:00	MP4334-MB1	1		
00:00	MP4334-B1	1		
00:00	MP4334-S1	1		
00:00	MP4334-D1	1		
00:00	F12849-1	1		(sample used for QC only; not part of login F12851)
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	F12851-1	1		
00:00	F12851-1A	1		
00:00	MA2766-CCV2	1		
00:00	MA2766-CCB2	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0412W1.HGX Date Analyzed: 04/12/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA2766 Units: ug/l

Metal	RL	IDL	ICB raw	ICB final	CCB raw	CCB final	CCB raw	CCB final
Mercury	1.0	.06	-0.065	<1.0	-0.065	<1.0	-0.065	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0412W1.HGX Date Analyzed: 04/12/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2766 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	3.2	106.7	3.0	3.0	100.0	3.0	3.2	106.7

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0412W1.HGX Date Analyzed: 04/12/02 Methods: SW846 7470A
QC Limits: to % Recovery Run ID: MA2766 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.50		0.51	102.0

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
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
10:11	MA2767-ICV1	1		
10:14	MA2767-ICB1	1		
10:17	MA2767-CRI1	1		
10:20	MA2767-ICSA1	1		
10:26	MA2767-ICSAB1	1		
10:31	MA2767-CCV1	1		
10:36	MA2767-CCB1	1		
10:40	F12849-1	10		(sample used for QC only; not part of login F12851)
10:44	MP4332-D1	10		
10:48	ZZZZZZ	10		
10:52	ZZZZZZ	10		
10:56	ZZZZZZ	1		
10:59	MP4335-MB1	1		
11:03	MP4335-B1	1		
11:07	F12837-1	1		(sample used for QC only; not part of login F12851)
11:11	MP4335-S1	1		
11:16	MP4335-S2	1		
11:20	MA2767-CCV2	1		
11:25	MA2767-CCB2	1		
11:40	MP4335-D1	1		
11:44	MP4335-SD1	5		
11:48	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:19	MA2767-CCV3	1		
12:25	MA2767-CCB3	1		
12:29	ZZZZZZ	1		
12:32	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
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	ZZZZZZ	1		
	12:40	ZZZZZZ	1		
	12:44	F12851-1	1		
	12:48	F12851-1A	1		
---------->	Last reportable sample/prep for job F12851				
	12:52	ZZZZZZ	1		
	12:56	MP4336-MB1	1		
	13:00	MP4336-B1	1		
	13:05	F12863-1	1		(sample used for QC only; not part of login F12851)
	13:09	MA2767-CCV4	1		
	13:14	MA2767-CCB4	1		
---------->	Last reportable CCB for job F12851				
	13:18	MP4336-S1	1		
	13:22	MP4336-S2	1		
	13:28	MP4336-D1	1		
	13:32	MP4336-SD1	5		
	13:36	ZZZZZZ	1		
	13:40	ZZZZZZ	1		
	13:44	ZZZZZZ	1		
	13:48	ZZZZZZ	1		
	13:52	ZZZZZZ	1		
	13:55	ZZZZZZ	1		
	13:59	MA2767-CCV5	1		
	14:04	MA2767-CCB5	1		
	14:08	ZZZZZZ	1		
	14:12	ZZZZZZ	1		
	14:16	ZZZZZZ	1		
	14:20	ZZZZZZ	1		
	14:24	ZZZZZZ	1		
	14:28	ZZZZZZ	1		
	14:32	ZZZZZZ	1		
	14:36	ZZZZZZ	1		
	14:40	ZZZZZZ	1		
	14:44	ZZZZZZ	1		
	14:47	MA2767-CCV6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
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
14:53	MA2767-CCB6	1		
14:57	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	MA2767-CCV7	1		
15:10	MA2767-CCB7	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2767 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	3.0	<200	50.5	<200<	26.2	<200<	16.4	<200
Antimony	0.0050	1.52	0.50	<5.0	1.1	<5.0	1.4	<5.0	4.2	<5.0
Arsenic	0.010	2.83	-1.2	<10	-0.27	<10	2.1	<10	1.9	<10
Barium	200	.49	0.15	<200	-0.11	<200	0.010	<200	-0.15	<200
Beryllium	5.0	.26	-0.17	<5.0	-0.71	<5.0	-0.99	<5.0	-0.54	<5.0
Cadmium	5.0	.26	0.19	<5.0	-0.21	<5.0	-0.19	<5.0	-0.060	<5.0
Calcium	1000	3.82	2.5	<1000	23.0	<1000	1.5	<1000	0.070	<1000
Chromium	10	.43	0.55	<10	0.57	<10	0.18	<10	0.83	<10
Cobalt	50	.5	0.53	<50	0.40	<50	0.16	<50	0.44	<50
Copper	25	.44	0.99	<25	-1.1	<25	-1.2	<25	-0.98	<25
Iron	300	7.11	14.4	<300	-30	<300	-42	<300<	-38	<300<
Lead	0.0050	1.22	2.2	<5.0	2.5	<5.0	1.2	<5.0	1.7	<5.0
Magnesium	5000	9.88	9.5	<5000	28.1	<5000	3.1	<5000	6.3	<5000
Manganese	15	.16	0.14	<15	-1.5	<15	-1.5	<15	-1.5	<15
Molybdenum	50	.75								
Nickel	40	1.08	1.3	<40	0.80	<40	0.62	<40	1.7	<40
Potassium	5000	13.9	654	<5000<	642	<5000<	656	<5000<	665	<5000<
Selenium	0.010	1.98	0.75	<10	1.6	<10	4.2	<10	1.5	<10
Silver	10	.55	-1.4	<10	-0.45	<10	-1.2	<10	0.91	<10
Sodium	5000	145	412	<5000	349	<5000	351	<5000	483	<5000
Thallium	0.010	1.49	2.2	<10	1.5	<10	2.8	<10	2.6	<10
Tin	50	2.18								
Vanadium	50	.47	0.78	<50	0.49	<50	0.44	<50	0.82	<50
Zinc	20	.59	-0.53	<20	-0.66	<20	-0.75	<20	-0.50	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2767 Units: mg/l

Metal	RL	IDL	CCB raw	final
Aluminum	200	6.56	10.4	<200
Antimony	0.0050	1.52	-1.0	<5.0
Arsenic	0.010	2.83	0.64	<10
Barium	200	.49	-0.27	<200
Beryllium	5.0	.26	-0.23	<5.0
Cadmium	5.0	.26	-0.40	<5.0
Calcium	1000	3.82	-4.6	<1000
Chromium	10	.43	-0.020	<10
Cobalt	50	.5	-0.17	<50
Copper	25	.44	-2.1	<25
Iron	300	7.11	-52	<300<
Lead	0.0050	1.22	2.5	<5.0
Magnesium	5000	9.88	-1.4	<5000
Manganese	15	.16	-1.6	<15<
Molybdenum	50	.75		
Nickel	40	1.08	0.36	<40
Potassium	5000	13.9	615	<5000<
Selenium	0.010	1.98	0.76	<10
Silver	10	.55	-0.96	<10
Sodium	5000	145	163	<5000
Thallium	0.010	1.49	4.0	<10
Tin	50	2.18		
Vanadium	50	.47	0.090	<50
Zinc	20	.59	-1.3	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2767 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40000	100.0	40	39600	99.0	40	38300	95.8
Antimony	2.0	2090	104.5	2.0	2060	103.0	2.0	2030	101.5
Arsenic	2.0	2030	101.5	2.0	2000	100.0	2.0	1980	99.0
Barium	2.0	2050	102.5	2.0	2010	100.5	2.0	1940	97.0
Beryllium	2.0	2030	101.5	2.0	2000	100.0	2.0	1980	99.0
Cadmium	2.0	1960	98.0	2.0	1930	96.5	2.0	1930	96.5
Calcium	40	42100	105.3	40	41300	103.3	40	40800	102.0
Chromium	2.0	2060	103.0	2.0	2040	102.0	2.0	2010	100.5
Cobalt	2.0	2010	100.5	2.0	1990	99.5	2.0	1970	98.5
Copper	2.0	2000	100.0	2.0	1970	98.5	2.0	1910	95.5
Iron	40	41200	103.0	40	40600	101.5	40	40100	100.3
Lead	2.0	2030	101.5	2.0	2030	101.5	2.0	1980	99.0
Magnesium	40	41500	103.8	40	40900	102.3	40	39900	99.8
Manganese	2.0	2070	103.5	2.0	2050	102.5	2.0	2010	100.5
Molybdenum									
Nickel	2.0	2060	103.0	2.0	2030	101.5	2.0	2010	100.5
Potassium	40	40000	100.0	40	39600	99.0	40	38500	96.3
Selenium	2.0	2060	103.0	2.0	2070	103.5	2.0	2050	102.5
Silver	0.25	248	99.2	0.25	244	97.6	0.25	240	96.0
Sodium	40	37700	94.3	40	37000	92.5	40	35900	90.0
Thallium	2.0	2000	100.0	2.0	1980	99.0	2.0	1960	98.0
Tin									
Vanadium	2.0	2070	103.5	2.0	2040	102.0	2.0	2000	100.0
Zinc	2.0	2080	104.0	2.0	2060	103.0	2.0	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2767 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40300	100.8	40	39700	99.3
Antimony	2.0	2140	107.0	2.0	2120	106.0
Arsenic	2.0	2060	103.0	2.0	2070	103.5
Barium	2.0	2080	104.0	2.0	2050	102.5
Beryllium	2.0	2050	102.5	2.0	2050	102.5
Cadmium	2.0	1970	98.5	2.0	1980	99.0
Calcium	40	42800	107.0	40	42900	107.3
Chromium	2.0	2080	104.0	2.0	2080	104.0
Cobalt	2.0	2020	101.0	2.0	2030	101.5
Copper	2.0	2020	101.0	2.0	1990	99.5
Iron	40	42000	105.0	40	42000	105.0
Lead	2.0	2060	103.0	2.0	2070	103.5
Magnesium	40	42100	105.3	40	41800	104.5
Manganese	2.0	2090	104.5	2.0	2080	104.0
Molybdenum						
Nickel	2.0	2070	103.5	2.0	2070	103.5
Potassium	40	40200	100.5	40	39400	98.5
Selenium	2.0	2100	105.0	2.0	2130	106.5
Silver	0.25	250	100.0	0.25	246	98.4
Sodium	40	38200	95.5	40	37500	93.8
Thallium	2.0	2020	101.0	2.0	2010	100.5
Tin						
Vanadium	2.0	2110	105.5	2.0	2090	104.5
Zinc	2.0	2080	104.0	2.0	2120	106.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2767 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		410	102.5
Antimony	0.010		10.6	106.0
Arsenic	0.020		18.8	94.0
Barium	0.40		426	106.5
Beryllium	0.010		10.3	103.0
Cadmium	0.010		10	100.0
Calcium	2.0		2170	108.5
Chromium	0.020		22.3	111.5
Cobalt	0.10		106	106.0
Copper	0.050		51.4	102.8
Iron	0.60		659	109.8
Lead	0.010		13.7	137.0
Magnesium	10		10200	102.0
Manganese	0.030		32.3	107.7
Molybdenum	0.10			
Nickel	0.080		91.4	114.3
Potassium	10		9850	98.5
Selenium	0.010		10.7	107.0
Silver	0.020		19.9	99.5
Sodium	10		8730	87.3
Thallium	0.020		16.8	84.0
Tin	0.10			
Vanadium	0.10		109	109.0
Zinc	0.040		44.6	111.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2767 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500	520000	104.0	501000	100.2
Antimony		1.0	-0.45		1090	109.0
Arsenic		1.0	0.080		1030	103.0
Barium		0.50	1.3		529	105.8
Beryllium		0.50	-1.8		515	103.0
Cadmium		1.0	-1.0		907	90.7
Calcium	500	500	474000	94.8	452000	90.4
Chromium		0.50	3.3		511	102.2
Cobalt		0.50	0.85		515	103.0
Copper		0.50	-16		583	116.6
Iron	200	200	202000	101.0	191000	95.5
Lead		1.0	2.2		972	97.2
Magnesium	500	500	539000	107.8	515000	103.0
Manganese		0.50	-0.66		547	109.4
Molybdenum		1.0	-4.5		973	97.3
Nickel		1.0	0.11		956	95.6
Potassium			671		3800	
Selenium		1.0	2.6		1040	104.0
Silver		1.0	-1.3		1070	107.0
Sodium			264		2710	
Thallium		1.0	1.7		979	97.9
Tin		1.0	-10		998	99.8
Vanadium		0.50	2.2		503	100.6
Zinc		1.0	-1.8		919	91.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:22	MA2768-ICV1	1		
	10:25	MA2768-ICB1	1		
	10:31	MA2768-CRI1	1		
	10:35	MA2768-ICSA1	1		
	10:38	MA2768-ICSA2	1		
	10:39	MA2768-ICSAB1	1		
	10:42	MA2768-CCV1	1		
	10:48	MA2768-CCB1	1		
	10:51	F12837-1	1		(sample used for QC only; not part of login F12851)
	10:55	MP4335-D1	1		
	10:59	MP4335-SD1	5		
---------->	Last reportable sample/prep for job F12851				
	11:03	ZZZZZZ	1		
	11:07	MP4337-MB1	1		
	11:11	MP4337-B1	1		
	11:16	F12899-2	1		(sample used for QC only; not part of login F12851)
	11:20	MP4337-S1	1		
	11:24	MP4337-S2	1		
	11:30	MP4337-D1	1		
	11:34	MA2768-CCV2	1		
	11:39	MA2768-CCB2	1		
---------->	Last reportable CCB for job F12851				
	11:43	MP4337-SD1	5		
	11:47	ZZZZZZ	1		
	11:51	ZZZZZZ	1		
	11:55	ZZZZZZ	1		
	11:59	ZZZZZZ	1		
	12:03	ZZZZZZ	1		
	12:07	ZZZZZZ	1		
	12:10	ZZZZZZ	1		
	12:14	ZZZZZZ	1		
	12:18	ZZZZZZ	1		
	12:22	MA2768-CCV3	1		
	12:27	MA2768-CCB3	1		
	12:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:35	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	MA2768-CCV4	1		
13:15	MA2768-CCB4	1		
13:19	MP4338-MB1	1		
13:23	MP4338-B1	1		
13:28	F12897-1	1		(sample used for QC only; not part of login F12851)
13:32	MP4338-S1	1		
13:37	MP4338-D1	1		
13:41	MP4338-SD1	5		
13:45	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	MA2768-CCV5	1		
14:06	MA2768-CCB5	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:22	MA2768-CCV6	1		
14:27	MA2768-CCB6	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC
QC Limits: result < RL

Date Analyzed: 04/16/02
Run ID: MA2768

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	7.2	<200	34.5	<200<	27.8	<200<
Antimony	0.0050	1.52	3.1	<5.0	1.5	<5.0	1.9	<5.0
Arsenic	0.010	2.83	0.52	<10	0.020	<10	0.45	<10
Barium	200	.49	0.25	<200	0.0	<200	0.080	<200
Beryllium	5.0	.26	0.16	<5.0	-0.17	<5.0	0.23	<5.0
Cadmium	5.0	.26	0.33	<5.0	-0.12	<5.0	0.010	<5.0
Calcium	1000	3.82	4.5	<1000	20.6	<1000	12.8	<1000
Chromium	10	.43	0.38	<10	-0.090	<10	-0.040	<10
Cobalt	50	.5	0.34	<50	-0.10	<50	-0.040	<50
Copper	25	.44	0.50	<25	0.21	<25	0.13	<25
Iron	300	7.11	10.5	<300	20.8	<300	18.2	<300
Lead	0.0050	1.22	3.4	<5.0	2.9	<5.0	2.8	<5.0
Magnesium	5000	9.88	7.6	<5000	17.2	<5000	11.2	<5000
Manganese	15	.16	0.23	<15	0.0	<15	0.0	<15
Molybdenum	50	.75						
Nickel	40	1.08	0.050	<40	0.85	<40	-0.30	<40
Potassium	5000	13.9	671	<5000<	686	<5000<	704	<5000<
Selenium	0.010	1.98	3.5	<10	3.1	<10	3.3	<10
Silver	10	.55	0.47	<10	1.3	<10	0.92	<10
Sodium	5000	145	164	<5000	64.6	<5000	75.1	<5000
Thallium	0.010	1.49	-2.1	<10	-1.1	<10	-2.3	<10
Tin	50	2.18						
Vanadium	50	.47	0.21	<50	-0.16	<50	-0.090	<50
Zinc	20	.59	0.15	<20	0.90	<20	1.1	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40200	100.5	40	40300	100.8	40	39700	99.3
Antimony	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Arsenic	2.0	2030	101.5	2.0	2020	101.0	2.0	2060	103.0
Barium	2.0	2060	103.0	2.0	2060	103.0	2.0	2040	102.0
Beryllium	2.0	2040	102.0	2.0	2030	101.5	2.0	2060	103.0
Cadmium	2.0	1960	98.0	2.0	1950	97.5	2.0	2000	100.0
Calcium	40	42200	105.5	40	41800	104.5	40	43000	107.5
Chromium	2.0	2070	103.5	2.0	2060	103.0	2.0	2100	105.0
Cobalt	2.0	2010	100.5	2.0	2000	100.0	2.0	2040	102.0
Copper	2.0	2000	100.0	2.0	2000	100.0	2.0	1980	99.0
Iron	40	41400	103.5	40	41200	103.0	40	41800	104.5
Lead	2.0	2050	102.5	2.0	2030	101.5	2.0	2080	104.0
Magnesium	40	41600	104.0	40	41400	103.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2100	105.0
Molybdenum									
Nickel	2.0	2070	103.5	2.0	2050	102.5	2.0	2090	104.5
Potassium	40	40400	101.0	40	40300	100.8	40	39700	99.3
Selenium	2.0	2090	104.5	2.0	2080	104.0	2.0	2120	106.0
Silver	0.25	246	98.4	0.25	243	97.2	0.25	244	97.6
Sodium	40	38300	95.8	40	38000	95.0	40	37800	94.5
Thallium	2.0	2020	101.0	2.0	2010	100.5	2.0	2030	101.5
Tin									
Vanadium	2.0	2070	103.5	2.0	2060	103.0	2.0	2080	104.0
Zinc	2.0	2070	103.5	2.0	2060	103.0	2.0	2150	107.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2768 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		373	93.3
Antimony	0.010		11.3	113.0
Arsenic	0.020		18.4	92.0
Barium	0.40		404	101.0
Beryllium	0.010		10.1	101.0
Cadmium	0.010		9.6	96.0
Calcium	2.0		2040	102.0
Chromium	0.020		20.4	102.0
Cobalt	0.10		99.9	99.9
Copper	0.050		47.7	95.4
Iron	0.60		599	99.8
Lead	0.010		13.4	130.0
Magnesium	10		9680	96.8
Manganese	0.030		30.2	100.7
Molybdenum	0.10			
Nickel	0.080		86.1	107.6
Potassium	10		9430	94.3
Selenium	0.010		10.8	108.0
Silver	0.020		19.0	95.0
Sodium	10		8120	81.2
Thallium	0.020		15.1	75.5
Tin	0.10			
Vanadium	0.10		103	103.0
Zinc	0.040		40.2	100.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			517000	103.4	505000	101.0
Antimony		1.0			-0.080		1100	110.0
Arsenic		1.0			0.040		1050	105.0
Barium		0.50			1.3		537	107.4
Beryllium		0.50			-1.2		524	104.8
Cadmium		1.0			-1.1		919	91.9
Calcium	500	500			471000	94.2	461000	92.2
Chromium		0.50			2.9		521	104.2
Cobalt		0.50			0.42		518	103.6
Copper		0.50			-17		585	117.0
Iron	200	200			201000	100.5	195000	97.5
Lead		1.0			1.0		974	97.4
Magnesium	500	500			533000	106.6	520000	104.0
Manganese		0.50			-0.68		553	110.6
Molybdenum		1.0			-2.2		995	99.5
Nickel		1.0			-0.65		973	97.3
Potassium					658		3830	
Selenium		1.0			2.4		1050	105.0
Silver		1.0			0.32		1070	107.0
Sodium					140		2700	
Thallium		1.0			-5.5		999	99.9
Tin		1.0			-2.1		1000	100.0
Vanadium		0.50			1.5		509	101.8
Zinc		1.0			-2.2		933	93.3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4334
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/11/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.06	-0.065	<1.0

Associated samples MP4334: F12851-1, F12851-1A

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: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4334
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/11/02 04/11/02

Metal	F12849-1 Original	DUP	RPD	QC Limits	F12849-1 Original	MS	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.12	0.12	0.0	0-20	0.12	3.3	3	106.0	62-131

Associated samples MP4334: F12851-1, F12851-1A

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: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4334
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/11/02

Metal	BSP Result	Spikelot HGFLWS	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP4334: F12851-1, F12851-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4335
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	16.5	<200
Antimony	5.0	1.52	1.2	<5.0
Arsenic	10	2.83	-0.12	<10
Barium	200	.49	-0.26	<200
Beryllium	5.0	.26	-0.74	<5.0
Cadmium	5.0	.26	-0.40	<5.0
Calcium	1000	3.82	6.1	<1000
Chromium	10	.43	0.31	<10
Cobalt	50	.5	0.16	<50
Copper	25	.44	0.030	<25
Iron	300	7.11	-41	<300
Lead	5.0	1.22	2.3	<5.0
Magnesium	5000	9.88	4.5	<5000
Manganese	15	.16	-1.6	<15
Molybdenum	50	.75		
Nickel	40	1.08	0.87	<40
Potassium	5000	13.9	645	<5000
Selenium	10	1.98	-0.96	<10
Silver	10	.55	0.22	<10
Sodium	5000	145	413	<5000
Thallium	10	1.49	-3.4	<10
Tin	50	2.18		
Vanadium	50	.47	0.32	<50
Zinc	20	.59	2.0	<20

Associated samples MP4335: F12851-1, F12851-1A

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: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4335
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			04/12/02					04/12/02		
Metal	F12837-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12837-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	1730	31900	29000	104.0	70-122	1730	30900	29000	100.6	70-122
Antimony	2.4	871	1000	86.9	66-120	2.4	845	1000	84.3	66-120
Arsenic	0.0	4110	4000	102.8	75-120	0.0	4010	4000	100.3	75-120
Barium	29.1	4000	4000	99.3	72-120	29.1	3900	4000	96.8	72-120
Beryllium	0.0	107	100	107.0	73-120	0.0	103	100	103.0	73-120
Cadmium	0.0	101	100	101.0	72-120	0.0	98.3	100	98.3	72-120
Calcium	24200	50100	25000	103.6	37-150	24200	48800	25000	98.4	37-150
Chromium	3.0	426	400	105.8	69-122	3.0	412	400	102.3	69-122
Cobalt	3.0	1050	1000	104.7	69-120	3.0	1010	1000	100.7	69-120
Copper	5.6	531	500	105.1	70-120	5.6	519	500	102.7	70-120
Iron	2300	30600	27000	104.8	72-122	2300	29400	27000	100.4	72-122
Lead	4.5	1060	1000	105.6	70-126	4.5	1030	1000	102.6	70-126
Magnesium	20100	45600	25000	102.0	73-127	20100	44400	25000	97.2	73-127
Manganese	303	1370	1000	106.7	74-122	303	1340	1000	103.7	74-122
Molybdenum										
Nickel	5.8	1050	1000	104.4	69-120	5.8	1020	1000	101.4	69-120
Potassium	9570	39300	25000	118.9	61-122	9570	38700	25000	116.5	61-122
Selenium	2.8	4310	4000	107.7	74-120	2.8	4220	4000	105.4	74-120
Silver	0.0	104	100	104.0	52-126	0.0	101	100	101.0	52-126
Sodium	135000	171000	25000	144.0(a)	56-130	135000	171000	25000	144.0(a)	56-130
Thallium	7.2	4330	4000	106.1	80-122	7.2	4210	4000	105.1	80-122
Tin										
Vanadium	4.6	1060	1000	105.5	75-122	4.6	1030	1000	102.5	75-122
Zinc	64.8	1140	1000	107.5	68-123	64.8	1100	1000	103.5	68-123

Associated samples MP4335: F12851-1, F12851-1A

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) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4335
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	F12837-1 Original	DUP	RPD	QC Limits
Aluminum	1730	1680	2.9	0-23
Antimony	2.4	0.0	0.0	0-20
Arsenic	0.0	0.0	NC	0-29
Barium	29.1	29.8	2.4	0-20
Beryllium	0.0	0.0	NC	0-25
Cadmium	0.0	0.0	NC	0-20
Calcium	24200	25000	3.3	0-20
Chromium	3.0	3.3	9.5	0-47
Cobalt	3.0	2.7	10.5	0-30
Copper	5.6	6.0	6.9	0-21
Iron	2300	2240	2.6	0-23
Lead	4.5	6.0	28.6	0-44
Magnesium	20100	21000	4.4	0-20
Manganese	303	308	1.6	0-30
Molybdenum				
Nickel	5.8	6.2	6.7	0-56
Potassium	9570	9990	4.3	0-20
Selenium	2.8	4.1	37.7 (a)	0-36
Silver	0.0	0.0	NC	0-20
Sodium	135000	144000	6.5	0-20
Thallium	7.2	0.0	200.0(a)	0-26
Tin				
Vanadium	4.6	4.5	2.2	0-28
Zinc	64.8	64.4	0.6	0-54

Associated samples MP4335: F12851-1, F12851-1A

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.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4335
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	28500	29000	98.3	80-120
Antimony	860	1000	86.0	80-120
Arsenic	4000	4000	100.0	80-120
Barium	3970	4000	99.3	80-120
Beryllium	106	100	106.0	80-120
Cadmium	100	100	100.0	80-120
Calcium	25300	25000	101.2	80-120
Chromium	421	400	105.3	80-120
Cobalt	1040	1000	104.0	80-120
Copper	518	500	103.6	80-120
Iron	28000	27000	103.7	80-120
Lead	1050	1000	105.0	80-120
Magnesium	24400	25000	97.6	80-120
Manganese	1070	1000	107.0	80-120
Molybdenum				
Nickel	1050	1000	105.0	80-120
Potassium	24500	25000	98.0	80-120
Selenium	4170	4000	104.3	80-120
Silver	101	100	101.0	80-120
Sodium	22600	25000	90.4	80-120
Thallium	4230	4000	105.8	80-120
Tin				
Vanadium	1050	1000	105.0	80-120
Zinc	1070	1000	107.0	80-120

Associated samples MP4335: F12851-1, F12851-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12851
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4335
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	F12837-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	1730	1730	0.0	0-10
Antimony				
Arsenic	0.00	14.8		0-10
Barium	29.1	28.5	2.1	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	24200	23900	1.4	0-10
Chromium	3.04	2.86	5.9	0-10
Cobalt	3.01	0.00	100.0(a)	0-10
Copper	5.61	0.00	100.0(a)	0-10
Iron	2300	2090	9.1	0-10
Lead	4.48	29.8	565.6(a)	0-10
Magnesium	20100	19500	3.0	0-10
Manganese	303	348	15.1*(b)	0-10
Molybdenum				
Nickel	5.82	0.00	100.0(a)	0-10
Potassium	9570	10300	8.1	0-10
Selenium	2.84	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	135000	113000	16.5*(b)	0-10
Thallium	7.15	14.3	99.9 (a)	0-10
Tin				
Vanadium	4.63	3.84	17.1 (a)	0-10
Zinc	64.8	107	64.7*(b)	0-10

Associated samples MP4335: F12851-1, F12851-1A

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.

F12851 ~~F12850~~

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04092002A

Project Number: 825635
Samples Shipment Date: 09 APR 2002
Bill To: Accounts Receivable, 312 Directors Drive, Knoxville TN 37923

Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: Accutest Laboratories

Sample Coordinator: Don Dill
Lab Contact: Sue Bell
Report To: Maureen McMyler, 312 Directors Drive, Knoxville TN 37923

Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095413

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [Y]

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

1. Relinquished By (Signature/Affiliation) D M Dill	Date: 4/9/02 Time: 1800	1. Received By (Signature/Affiliation) Miranda Dempat	Date: 4-10-02 Time: 930
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3045	TNTC-BEDGW-001-GW-CB3045-FS	09 APR 2002	12:48	500 mL HDPE	1		Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3045	TNTC-BEDGW-001-GW-CB3045-FS	09 APR 2002	12:48	500 mL HDPE	1		TAL Metals by SW-846 6010B/7470A in water	N		
CB3045	TNTC-BEDGW-001-GW-CB3045-FS	09 APR 2002	12:48	1 L Amb. Glass	1		Nitroaromatics by SW-846 8330	N		
CB3045	TNTC-BEDGW-001-GW-CB3045-FS	09 APR 2002	12:48	40 mL GVIAL,SEP	3		TCL Volatiles by SW-846 8260B	N		
CB3045	TNTC-BEDGW-001-GW-CB3045-FS	09 APR 2002	12:48	1 L Amb. Glass	2		TCL Semivolatiles by SW-846 8270C	N		
CB5011	FIELDQC-BW-CB5011-TB	09 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

SET 2

Southeast ACCUTEST

05/07/02

Technical Report for

IT Corporation

Plum Brook Ordnance WKS.

825635

Accutest Job Number: F12883

Report to:

IT Corporation

mmcmyler@theitgroup.com

ATTN: Maureen McMyler

Total number of pages in report: 140

ACCREDITED IN ACCORDANCE WITH nela

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 approval of Accutest Laboratories.

Sample Summary

IT Corporation

Job No: F12883

Plum Brook Ordnance WKS.
Project No: 825635

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12883-1	04/11/02	17:00 DD	04/12/02	AQ	Ground Water	CB3035
F12883-2	04/11/02	00:00 DD	04/12/02	AQ	Trip Blank Water	CB5015
F12883-1A	04/11/02	17:00 DD	04/12/02	AQ	Groundwater Filtered	CB3035

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009307.D	1	04/19/02	JG	n/a	n/a	VB402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	6.4	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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	3.4	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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	9.2	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	25.2	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009527.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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	5.9	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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	
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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		20-125%
4165-62-2	Phenol-d5	25%		10-125%
118-79-6	2,4,6-Tribromophenol	94%		35-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		46-125%
321-60-8	2-Fluorobiphenyl	67%		46-125%
1718-51-0	Terphenyl-d14	93%		49-126%

(a) QC outside of control limits. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	GG003015.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153
Run #2	GG003077.D	1	04/26/02	MRE	04/24/02	OP5028	GGG156

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2	960 ml	10.0 ml

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	J
121-82-4	RDX	ND	0.50	ug/l	J
99-65-0	1,3-Dinitrobenzene	ND	0.20	ug/l	J
606-20-2	2,6-Dinitrotoluene	ND	0.20	ug/l	J
121-14-2	2,4-Dinitrotoluene	ND	0.20	ug/l	J
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.20	ug/l	J
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	ug/l	J
98-95-3	Nitrobenzene	ND	0.20	ug/l	J
88-72-2	o-Nitrotoluene	ND	0.20	ug/l	J
99-08-1	m-Nitrotoluene	ND	0.20	ug/l	J
99-99-0	p-Nitrotoluene	ND	0.20	ug/l	J
479-45-8	Tetryl	ND	0.20	ug/l	J
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	ug/l	J
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	26% [b]	24%	58-131%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.
(b) Surrogates outside of control limits, all values should be considered estimated.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	109000	1000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Iron	333	300	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	70200	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	20.2	15	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/15/02	04/16/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	47900	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	263000	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CB5015		
Lab Sample ID:	F12883-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009294.D	1	04/18/02	JG	n/a	n/a	VB401
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB5015		
Lab Sample ID:	F12883-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	108%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CB3035		
Lab Sample ID:	F12883-1A	**Date Sampled:**	04/11/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	107000	1000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	69500	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	16.3	15	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/15/02	04/16/02	LIR	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	47600	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	261000	5000	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB401-BS	B0009281.D	1	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	112	90	67-125
71-43-2	Benzene	25	23.5	94	75-125
75-27-4	Bromodichloromethane	25	22.4	90	75-125
75-25-2	Bromoform	25	21.4	86	72-125
108-90-7	Chlorobenzene	25	23.5	94	75-125
75-00-3	Chloroethane	25	24.4	98	58-136
67-66-3	Chloroform	25	22.8	91	75-125
75-15-0	Carbon disulfide	125	118	94	48-142
56-23-5	Carbon tetrachloride	25	23.0	92	75-136
75-34-3	1,1-Dichloroethane	25	23.5	94	75-125
75-35-4	1,1-Dichloroethylene	25	23.0	92	67-138
107-06-2	1,2-Dichloroethane	25	21.4	86	75-125
78-87-5	1,2-Dichloropropane	25	24.4	98	75-125
124-48-1	Dibromochloromethane	25	22.9	92	75-125
156-59-2	cis-1,2-Dichloroethylene	25	22.9	92	75-129
10061-01-5	cis-1,3-Dichloropropene	25	22.2	89	75-125
156-60-5	trans-1,2-Dichloroethylene	25	22.1	88	73-125
10061-02-6	trans-1,3-Dichloropropene	25	21.8	87	75-125
100-41-4	Ethylbenzene	25	23.2	93	68-135
591-78-6	2-Hexanone	125	116	93	68-125
108-10-1	4-Methyl-2-pentanone	125	117	94	75-125
74-83-9	Methyl bromide	25	23.0	92	59-146
74-87-3	Methyl chloride	25	24.6	98	50-142
75-09-2	Methylene chloride	25	22.7	91	69-125
78-93-3	Methyl ethyl ketone	125	113	90	70-125
100-42-5	Styrene	25	24.4	98	75-125
71-55-6	1,1,1-Trichloroethane	25	23.6	94	75-132
79-34-5	1,1,2,2-Tetrachloroethane	25	22.0	88	75-125
79-00-5	1,1,2-Trichloroethane	25	22.1	88	75-125
127-18-4	Tetrachloroethylene	25	24.0	96	75-126
108-88-3	Toluene	25	23.4	94	75-125
79-01-6	Trichloroethylene	25	22.8	91	75-125
75-01-4	Vinyl chloride	25	25.2	101	60-147
1330-20-7	Xylene (total)	75	72.4	97	75-125

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB401-BS	B0009281.D	1	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB402-BS	B0009304.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	110	88	67-125
71-43-2	Benzene	25	22.2	89	75-125
75-27-4	Bromodichloromethane	25	21.7	87	75-125
75-25-2	Bromoform	25	20.9	84	72-125
108-90-7	Chlorobenzene	25	22.1	88	75-125
75-00-3	Chloroethane	25	22.4	90	58-136
67-66-3	Chloroform	25	21.8	87	75-125
75-15-0	Carbon disulfide	125	112	90	48-142
56-23-5	Carbon tetrachloride	25	22.6	90	75-136
75-34-3	1,1-Dichloroethane	25	22.3	89	75-125
75-35-4	1,1-Dichloroethylene	25	21.4	86	67-138
107-06-2	1,2-Dichloroethane	25	20.4	82	75-125
78-87-5	1,2-Dichloropropane	25	23.4	94	75-125
124-48-1	Dibromochloromethane	25	21.7	87	75-125
156-59-2	cis-1,2-Dichloroethylene	25	22.4	90	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.2	85	75-125
156-60-5	trans-1,2-Dichloroethylene	25	20.7	83	73-125
10061-02-6	trans-1,3-Dichloropropene	25	20.7	83	75-125
100-41-4	Ethylbenzene	25	21.8	87	68-135
591-78-6	2-Hexanone	125	115	92	68-125
108-10-1	4-Methyl-2-pentanone	125	114	91	75-125
74-83-9	Methyl bromide	25	21.3	85	59-146
74-87-3	Methyl chloride	25	23.2	93	50-142
75-09-2	Methylene chloride	25	21.5	86	69-125
78-93-3	Methyl ethyl ketone	125	111	89	70-125
100-42-5	Styrene	25	23.5	94	75-125
71-55-6	1,1,1-Trichloroethane	25	23.6	94	75-132
79-34-5	1,1,2,2-Tetrachloroethane	25	21.1	84	75-125
79-00-5	1,1,2-Trichloroethane	25	22.0	88	75-125
127-18-4	Tetrachloroethylene	25	23.3	93	75-126
108-88-3	Toluene	25	22.2	89	75-125
79-01-6	Trichloroethylene	25	21.6	86	75-125
75-01-4	Vinyl chloride	25	23.6	94	60-147
1330-20-7	Xylene (total)	75	68.3	91	75-125

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB402-BS	B0009304.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	93%	80-120%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB401-MB	B0009282.D	1	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB401-MB	B0009282.D	1	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	106%	80-120%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB402-MB	B0009308.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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-Tetrachloroethane	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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB402-MB	B0009308.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	80-120%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	110%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12864-17MS	B0009292.D	5	04/18/02	JG	n/a	n/a	VB401
F12864-17MSD	B0009293.D	5	04/18/02	JG	n/a	n/a	VB401
F12864-17	B0009284.D	5	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

CAS No.	Compound	F12864-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	526	84	564	90	7	61-125/15
71-43-2	Benzene	158		125	224	53*	222	51*	1	75-125/15
75-27-4	Bromodichloromethane	ND		125	110	88	112	90	2	75-125/15
75-25-2	Bromoform	ND		125	103	82	98.3	79	5	66-125/15
108-90-7	Chlorobenzene	ND		125	113	90	110	88	3	75-125/15
75-00-3	Chloroethane	ND		125	111	89	120	96	8	53-125/15
67-66-3	Chloroform	ND		125	109	87	110	88	1	75-125/15
75-15-0	Carbon disulfide	ND		625	559	89	563	90	1	51-138/15
56-23-5	Carbon tetrachloride	ND		125	110	88	111	89	1	74-131/15
75-34-3	1,1-Dichloroethane	ND		125	112	90	112	90	0	75-125/15
75-35-4	1,1-Dichloroethylene	ND		125	106	85	110	88	4	66-140/15
107-06-2	1,2-Dichloroethane	ND		125	103	82	105	84	2	75-125/15
78-87-5	1,2-Dichloropropane	ND		125	117	94	118	94	1	75-125/15
124-48-1	Dibromochloromethane	ND		125	110	88	107	86	3	75-125/15
156-59-2	cis-1,2-Dichloroethylene	ND		125	113	90	112	90	1	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		125	105	84	106	85	1	71-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	105	84	107	86	2	73-125/15
10061-02-6	trans-1,3-Dichloropropene	ND		125	103	82	103	82	0	62-125/15
100-41-4	Ethylbenzene	125		125	198	58*	196	57*	1	75-125/15
591-78-6	2-Hexanone	ND		625	574	92	578	92	1	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		625	563	90	577	92	2	75-125/15
74-83-9	Methyl bromide	ND		125	102	82	110	88	8	67-146/15
74-87-3	Methyl chloride	ND		125	102	82	122	98	18*	47-160/15
75-09-2	Methylene chloride	ND		125	108	86	107	86	1	69-125/15
78-93-3	Methyl ethyl ketone	ND		625	558	89	566	91	1	70-125/15
100-42-5	Styrene	ND		125	123	98	119	95	3	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		125	112	90	116	93	4	75-131/15
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	106	85	107	86	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		125	112	90	109	87	3	75-125/15
127-18-4	Tetrachloroethylene	ND		125	117	94	115	92	2	75-125/15
108-88-3	Toluene	422		125	400	-18* [a]	397	-20* [a]	1	75-125/15
79-01-6	Trichloroethylene	ND		125	112	90	111	89	1	75-125/15
75-01-4	Vinyl chloride	ND		125	106	85	125	100	16*	52-169/15
1330-20-7	Xylene (total)	427		375	646	58*	640	57*	1	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12864-17MS	B0009292.D	5	04/18/02	JG	n/a	n/a	VB401
F12864-17MSD	B0009293.D	5	04/18/02	JG	n/a	n/a	VB401
F12864-17	B0009284.D	5	04/18/02	JG	n/a	n/a	VB401

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-2

CAS No.	Surrogate Recoveries	MS	MSD	F12864-17	Limits
1868-53-7	Dibromofluoromethane	101%	100%	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	101%	98%	80-120%
2037-26-5	Toluene-D8	97%	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	98%	96%	80-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12924-1MS	B0009312.D	1	04/19/02	JG	n/a	n/a	VB402
F12924-1MSD	B0009313.D	1	04/19/02	JG	n/a	n/a	VB402
F12924-1	B0009309.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

CAS No.	Compound	F12924-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	112	90	114	91	2	61-125/15
71-43-2	Benzene	ND		25	22.5	90	22.0	88	2	75-125/15
75-27-4	Bromodichloromethane	ND		25	21.3	85	21.0	84	1	75-125/15
75-25-2	Bromoform	ND		25	18.5	74	18.7	75	1	66-125/15
108-90-7	Chlorobenzene	ND		25	21.9	88	21.8	87	0	75-125/15
75-00-3	Chloroethane	ND		25	22.4	90	23.1	92	3	53-125/15
67-66-3	Chloroform	ND		25	22.3	89	21.5	86	4	75-125/15
75-15-0	Carbon disulfide	ND		125	113	90	109	87	4	51-138/15
56-23-5	Carbon tetrachloride	ND		25	21.0	84	20.9	84	0	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	22.5	90	21.9	88	3	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	22.1	88	21.6	86	2	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	20.5	82	20.2	81	1	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	23.0	92	23.2	93	1	75-125/15
124-48-1	Dibromochloromethane	ND		25	20.7	83	20.3	81	2	75-125/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.4	90	22.1	88	1	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	19.7	79	19.7	79	0	71-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	21.2	85	20.9	84	1	73-125/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	19.0	76	19.5	78	3	62-125/15
100-41-4	Ethylbenzene	ND		25	21.8	87	21.6	86	1	75-125/15
591-78-6	2-Hexanone	ND		125	120	96	121	97	1	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	119	95	119	95	0	75-125/15
74-83-9	Methyl bromide	ND		25	21.0	84	21.7	87	3	67-146/15
74-87-3	Methyl chloride	ND		25	22.0	88	23.9	96	8	47-160/15
75-09-2	Methylene chloride	ND		25	21.1	84	20.9	84	1	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	112	90	112	90	0	70-125/15
100-42-5	Styrene	ND		25	22.9	92	22.9	92	0	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	22.6	90	22.1	88	2	75-131/15
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.1	84	21.6	86	2	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	21.6	86	21.6	86	0	75-125/15
127-18-4	Tetrachloroethylene	ND		25	22.2	89	21.7	87	2	75-125/15
108-88-3	Toluene	ND		25	22.0	88	21.7	87	1	75-125/15
79-01-6	Trichloroethylene	ND		25	21.3	85	21.2	85	0	75-125/15
75-01-4	Vinyl chloride	ND		25	21.8	87	23.7	95	8	52-169/15
1330-20-7	Xylene (total)	ND		75	67.3	90	67.4	90	0	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12924-1MS	B0009312.D	1	04/19/02	JG	n/a	n/a	VB402
F12924-1MSD	B0009313.D	1	04/19/02	JG	n/a	n/a	VB402
F12924-1	B0009309.D	1	04/19/02	JG	n/a	n/a	VB402

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12883-1

CAS No.	Surrogate Recoveries	MS	MSD	F12924-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	102%	80-120%
2037-26-5	Toluene-D8	100%	100%	104%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	113%	80-120%

Instrument Performance Check (BFB)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VB401-BFB	**Injection Date:**	04/18/02
Lab File ID:	B0009279.D	**Injection Time:**	08:28
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13437	26.3		Pass
75	30.0 - 60.0% of mass 95	23597	46.2		Pass
95	Base peak, 100% relative abundance	51053	100.0		Pass
96	5.0 - 9.0% of mass 95	3600	7.1		Pass
173	Less than 2.0% of mass 174	219	0.43	(0.5) [a]	Pass
174	50.0 - 100.0% of mass 95	44208	86.6		Pass
175	5.0 - 9.0% of mass 174	3088	6.0	(7.0) [a]	Pass
176	95.0 - 101.0% of mass 174	42770	83.8	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2736	5.4	(6.4) [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
VB401-CC398	B0009280.D	04/18/02	09:00	00:32	Continuing cal 40PPB
VB401-BS	B0009281.D	04/18/02	09:33	01:05	Blank Spike
VB401-MB	B0009282.D	04/18/02	10:01	01:33	Method Blank
ZZZZZZ	B0009283.D	04/18/02	10:32	02:04	(unrelated sample)
F12864-17	B0009284.D	04/18/02	11:03	02:35	(used for QC only; not part of job F12883)
ZZZZZZ	B0009285.D	04/18/02	11:31	03:03	(unrelated sample)
ZZZZZZ	B0009286.D	04/18/02	11:59	03:31	(unrelated sample)
ZZZZZZ	B0009287.D	04/18/02	12:26	03:58	(unrelated sample)
ZZZZZZ	B0009288.D	04/18/02	13:11	04:43	(unrelated sample)
ZZZZZZ	B0009289.D	04/18/02	13:39	05:11	(unrelated sample)
ZZZZZZ	B0009290.D	04/18/02	14:11	05:43	(unrelated sample)
ZZZZZZ	B0009291.D	04/18/02	14:39	06:11	(unrelated sample)
F12864-17MS	B0009292.D	04/18/02	15:07	06:39	Matrix Spike
F12864-17MSD	B0009293.D	04/18/02	15:35	07:07	Matrix Spike Duplicate
F12883-2	B0009294.D	04/18/02	16:03	07:35	CB5015
ZZZZZZ	B0009295.D	04/18/02	16:31	08:03	(unrelated sample)
ZZZZZZ	B0009298.D	04/18/02	18:00	09:32	(unrelated sample)
ZZZZZZ	B0009299.D	04/18/02	18:28	10:00	(unrelated sample)
ZZZZZZ	B0009300.D	04/18/02	18:56	10:28	(unrelated sample)
ZZZZZZ	B0009301.D	04/18/02	19:25	10:57	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VB402-BFB	**Injection Date:**	04/19/02
Lab File ID:	B0009302.D	**Injection Time:**	09:16
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14410	25.4		Pass
75	30.0 - 60.0% of mass 95	27962	49.3		Pass
95	Base peak, 100% relative abundance	56698	100.0		Pass
96	5.0 - 9.0% of mass 95	3919	6.9		Pass
173	Less than 2.0% of mass 174	237	0.42	(0.46) [a]	Pass
174	50.0 - 100.0% of mass 95	51573	91.0		Pass
175	5.0 - 9.0% of mass 174	3757	6.6	(7.3) [a]	Pass
176	95.0 - 101.0% of mass 174	50770	89.5	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2929	5.2	(5.8) [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
VB402-CC398	B0009303.D	04/19/02	09:42	00:26	Continuing cal 20PPB
VB402-BS	B0009304.D	04/19/02	10:10	00:54	Blank Spike
ZZZZZZ	B0009306.D	04/19/02	11:15	01:59	(unrelated sample)
F12883-1	B0009307.D	04/19/02	11:43	02:27	CB3035
VB402-MB	B0009308.D	04/19/02	12:11	02:55	Method Blank
F12924-1	B0009309.D	04/19/02	12:39	03:23	(used for QC only; not part of job F12883)
ZZZZZZ	B0009310.D	04/19/02	13:07	03:51	(unrelated sample)
ZZZZZZ	B0009311.D	04/19/02	13:35	04:19	(unrelated sample)
F12924-1MS	B0009312.D	04/19/02	14:03	04:47	Matrix Spike
F12924-1MSD	B0009313.D	04/19/02	14:32	05:16	Matrix Spike Duplicate
ZZZZZZ	B0009314.D	04/19/02	15:00	05:44	(unrelated sample)
ZZZZZZ	B0009315.D	04/19/02	15:28	06:12	(unrelated sample)
ZZZZZZ	B0009316.D	04/19/02	15:56	06:40	(unrelated sample)
ZZZZZZ	B0009317.D	04/19/02	16:24	07:08	(unrelated sample)
ZZZZZZ	B0009318.D	04/19/02	16:52	07:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	VB398-BFB	**Injection Date:**	04/15/02
Lab File ID:	B0009210.D	**Injection Time:**	09:50
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11101	24.2		Pass
75	30.0 - 60.0% of mass 95	20132	43.8		Pass
95	Base peak, 100% relative abundance	45960	100.0		Pass
96	5.0 - 9.0% of mass 95	3094	6.7		Pass
173	Less than 2.0% of mass 174	346	0.75	(0.81) [a]	Pass
174	50.0 - 100.0% of mass 95	42949	93.4		Pass
175	5.0 - 9.0% of mass 174	3022	6.6	(7.0) [a]	Pass
176	95.0 - 101.0% of mass 174	40850	88.9	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2776	6.0	(6.8) [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
VB398-IC398	B0009212.D	04/15/02	12:04	02:14	Initial cal 1PPB
VB398-IC398	B0009213.D	04/15/02	12:34	02:44	Initial cal 5PPB
VB398-IC398	B0009214.D	04/15/02	13:02	03:12	Initial cal 20PPB
VB398-ICC398	B0009215.D	04/15/02	13:31	03:41	Initial cal 40PPB
VB398-IC398	B0009217.D	04/15/02	14:27	04:37	Initial cal 100PPB
VB398-IC398	B0009219.D	04/15/02	15:23	05:33	Initial cal 70PPB
VB398-BS	B0009220.D	04/15/02	15:52	06:02	Blank Spike
VB398-MB	B0009221.D	04/15/02	16:20	06:30	Method Blank
ZZZZZZ	B0009222.D	04/15/02	16:48	06:58	(unrelated sample)
ZZZZZZ	B0009223.D	04/15/02	17:16	07:26	(unrelated sample)
ZZZZZZ	B0009224.D	04/15/02	17:45	07:55	(unrelated sample)
ZZZZZZ	B0009225.D	04/15/02	18:13	08:23	(unrelated sample)
ZZZZZZ	B0009226.D	04/15/02	18:41	08:51	(unrelated sample)
F12816-20	B0009227.D	04/15/02	19:09	09:19	(used for QC only; not part of job F12883)
F12816-20MS	B0009228.D	04/15/02	19:37	09:47	Matrix Spike
F12816-20MSD	B0009229.D	04/15/02	20:05	10:15	Matrix Spike Duplicate
ZZZZZZ	B0009230.D	04/15/02	20:34	10:44	(unrelated sample)
ZZZZZZ	B0009231.D	04/15/02	21:04	11:14	(unrelated sample)
ZZZZZZ	B0009232.D	04/15/02	21:35	11:45	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VB401-CC398	**Injection Date:**	04/18/02
Lab File ID:	B0009280.D	**Injection Time:**	09:00
Instrument ID:	GCMSB	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1317655	10.07	893213	13.33	508905	15.88
Upper Limit [a]	2635310	10.57	1786426	13.83	1017810	16.38
Lower Limit [b]	658828	9.57	446607	12.83	254453	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VB401-BS	1361797	10.07	902629	13.33	504552	15.88
VB401-MB	1361099	10.07	874182	13.33	418497	15.88
ZZZZZZ	1305937	10.07	847566	13.33	404774	15.88
F12864-17	1268152	10.07	846723	13.33	469478	15.88
ZZZZZZ	1311623	10.07	860554	13.33	411014	15.88
ZZZZZZ	1262990	10.07	819460	13.33	395952	15.88
ZZZZZZ	1248854	10.07	813784	13.33	393703	15.88
ZZZZZZ	1241870	10.07	819984	13.33	387211	15.88
ZZZZZZ	1210670	10.07	777592	13.33	375919	15.88
ZZZZZZ	1208413	10.07	793071	13.33	371125	15.88
ZZZZZZ	1169934	10.07	780396	13.33	373080	15.88
F12864-17MS	1205819	10.07	819566	13.33	476182	15.88
F12864-17MSD	1390981	10.07	946747	13.33	531635	15.88
F12883-2	1498738	10.07	977360	13.33	458782	15.88
ZZZZZZ	1294655	10.07	846931	13.33	404990	15.88
ZZZZZZ	1221166	10.07	789484	13.33	376740	15.88
ZZZZZZ	1194812	10.07	772371	13.33	369138	15.88
ZZZZZZ	1168737	10.07	763880	13.33	363085	15.88
ZZZZZZ	1141932	10.07	753272	13.33	357698	15.88

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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 Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VB402-CC398	**Injection Date:**	04/19/02
Lab File ID:	B0009303.D	**Injection Time:**	09:42
Instrument ID:	GCMSB	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1477449	10.07	994293	13.33	558898	15.88
Upper Limit [a]	2954898	10.57	1988586	13.83	1117796	16.38
Lower Limit [b]	738725	9.57	497147	12.83	279449	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VB402-BS	1515886	10.07	1028940	13.33	594413	15.88
ZZZZZZ	1536909	10.07	1027216	13.33	592992	15.88
F12883-1	2734775	10.07	1859319	13.33	1006335	15.88
VB402-MB	2636886	10.07	1845093	13.33	950379	15.88
F12924-1	2422965	10.07	1508118	13.33	697327	15.88
ZZZZZZ	1809129	10.07	1173210	13.33	550194	15.88
ZZZZZZ	1603918	10.07	1049043	13.33	494716	15.88
F12924-1MS	1573872	10.07	1056440	13.33	600200	15.88
F12924-1MSD	1632299	10.07	1088793	13.33	614536	15.88
ZZZZZZ	1604742	10.07	1042955	13.33	499509	15.88
ZZZZZZ	1584985	10.07	1032128	13.33	491855	15.88
ZZZZZZ	1524928	10.07	999167	13.33	479631	15.88
ZZZZZZ	1481793	10.07	969672	13.33	477075	15.88
ZZZZZZ	1471731	10.07	964057	13.33	462475	15.88

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12883-1	B0009307.D	109.0	111.0	97.0	109.0
F12883-2	B0009294.D	98.0	101.0	101.0	108.0
F12864-17MS	B0009292.D	101.0	98.0	97.0	95.0
F12864-17MSD	B0009293.D	100.0	101.0	99.0	98.0
F12924-1MS	B0009312.D	101.0	100.0	100.0	95.0
F12924-1MSD	B0009313.D	100.0	100.0	100.0	96.0
VB401-BS	B0009281.D	100.0	99.0	101.0	99.0
VB401-MB	B0009282.D	98.0	101.0	101.0	106.0
VB402-BS	B0009304.D	101.0	102.0	100.0	93.0
VB402-MB	B0009308.D	113.0	113.0	96.0	110.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VB398-ICC398
Lab FileID: B0009215.D

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Initial Calibration

Calibration Files
1 =B0009212.D 2 =B0009213.D 3 =B0009214.D
4 =B0009215.D 5 =B0009219.D 6 =B0009217.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet		0.228	0.221	0.250	0.259	0.245	0.241	6.55
3)	P	Chloromethane	0.521	0.471	0.456	0.481	0.464	0.479	0.479	4.78
4)	C	Vinyl Chloride	0.383	0.361	0.341	0.380	0.378	0.373	0.369	4.28
5)		Bromomethane	0.204	0.198	0.184	0.200	0.195	0.193	0.196	3.61
6)		Chloroethane		0.174	0.173	0.188	0.191	0.190	0.183	4.92
7)		Trichlorofluorometh		0.181	0.208	0.228	0.254	0.246	0.223	13.27
8)		Acrolein	0.007	0.008	0.010	0.012	0.017	0.015	0.012	31.71
9)	C	1,1-Dichloroethene	0.348	0.404	0.428	0.433	0.460	0.449	0.420	9.63
10)		Freon 113	0.156	0.187	0.207	0.211	0.206	0.196	0.194	10.56
11)		Acetone		0.082	0.075	0.074	0.083	0.077	0.078	5.24
12)		Iodomethane	0.232	0.280	0.281	0.312	0.317	0.311	0.289	11.20
13)		Methyl acetate	0.204	0.233	0.229	0.222	0.235	0.230	0.225	5.10
14)		Carbon Disulfide	1.029	1.006	0.970	0.942	0.963	0.921	0.972	4.13
15)		Methylene Chloride	0.506	0.455	0.500	0.489	0.495	0.482	0.488	3.75
16)		Tert Butyl Alcohol	0.020	0.019	0.020	0.022	0.024	0.024	0.021	10.41
17)		trans-1,2-Dichloroe	0.355	0.413	0.395	0.389	0.411	0.394	0.393	5.35
18)		Acrylonitrile	0.067	0.080	0.084	0.083	0.087	0.085	0.081	8.75
19)		Methyl Tert Butyl E	0.453	0.574	0.594	0.589	0.635	0.603	0.575	10.98
20)		Hexane	0.329	0.327	0.344	0.337	0.363	0.330	0.338	4.04
21)	P	1,1-Dichloroethane	0.436	0.498	0.483	0.484	0.495	0.474	0.478	4.68
22)		ETBE	0.623	0.813	0.840	0.842	0.904	0.881	0.817	12.30
23)		Vinyl acetate		0.438	0.462	0.476	0.504	0.485	0.473	5.24
24)		Di-isopropyl ether	0.976	1.164	1.178	1.162	1.216	1.182	1.147	7.47
25)		2,2-Dichloropropane	0.181	0.192	0.193	0.189	0.199	0.178	0.189	4.16
26)		cis-1,2-Dichloroeth	0.279	0.281	0.276	0.263	0.266	0.257	0.270	3.64
27)		2-Butanone	0.108	0.134	0.131	0.130	0.140	0.137	0.130	8.77
28)		Bromochloromethane	0.088	0.115	0.109	0.107	0.108	0.106	0.105	8.40
29)	C	Chloroform	0.447	0.416	0.392	0.386	0.406	0.396	0.407	5.50
30)		Tetrahydrofuran	0.089	0.080	0.086	0.086	0.091	0.091	0.087	4.75
31)		1,1,1-Trichloroetha	0.263	0.276	0.275	0.276	0.282	0.274	0.274	2.30
32)	S	Dibromofluoromethan	0.211	0.210	0.207	0.209	0.212	0.211	0.210	0.81
33)		Cyclohexane	0.412	0.467	0.488	0.496	0.523	0.504	0.482	8.10
34)		1,1-Dichloropropene	0.243	0.286	0.291	0.294	0.309	0.296	0.287	7.91
35)		Carbon Tetrachlorid	0.210	0.208	0.211	0.212	0.223	0.217	0.213	2.59
36)	S	1,2-Dichloroethane-	0.251	0.255	0.257	0.252	0.264	0.265	0.258	2.27
37)		TAME	0.568	0.657	0.681	0.677	0.716	0.708	0.668	7.99
38)		Benzene	1.010	1.100	1.049	1.038	1.052	1.019	1.045	3.06
39)		1,2-Dichloroethane	0.393	0.334	0.313	0.310	0.319	0.317	0.331	9.54
40)		Trichloroethene		0.251	0.236	0.232	0.242	0.233	0.239	3.37
41)		Methylcyclohexane	0.353	0.339	0.349	0.339	0.362	0.344	0.348	2.55
42)	C	1,2-Dichloropropane	0.258	0.307	0.296	0.296	0.309	0.304	0.295	6.35
43)		Dibromomethane	0.120	0.147	0.146	0.145	0.150	0.149	0.143	7.99
44)		1,4-Dioxane	0.003	0.002	0.002	0.002	0.003	0.003	0.002	17.24
45)		Bromodichloromethan	0.287	0.295	0.299	0.298	0.313	0.310	0.300	3.18
46)		2-Nitropropane	0.052	0.057	0.061	0.063	0.066	0.069	0.061	9.96

Initial Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VB398-ICC398
Lab FileID: B0009215.D

47)		2-Chloroethyl vinyl		0.124	0.142	0.146	0.160	0.158	0.146	9.78
48)		4-Methyl-2-pentanon	0.220	0.287	0.309	0.302	0.313	0.310	0.290	12.33
49)		cis-1,3-Dichloropro	0.314	0.373	0.392	0.387	0.416	0.406	0.381	9.57
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.373	1.378	1.363	1.363	1.385	1.368	1.372	0.62
52)	C	Toluene	1.556	1.634	1.595	1.529	1.592	1.538	1.574	2.53
53)		trans-1,3-Dichlorop	0.367	0.451	0.480	0.491	0.540	0.519	0.475	12.86
54)		1,1,2-Trichloroetha	0.268	0.307	0.303	0.295	0.302	0.293	0.295	4.71
55)		Tetrachloroethene	0.341	0.335	0.334	0.324	0.339	0.318	0.332	2.74
56)		2-hexanone	0.213	0.269	0.300	0.301	0.320	0.315	0.286	14.01
57)		1,3-Dichloropropane	0.492	0.584	0.575	0.552	0.572	0.567	0.557	6.02
58)		Dibromochloromethan	0.259	0.290	0.284	0.294	0.308	0.304	0.290	5.97
59)		1,2-Dibromoethane	0.267	0.308	0.302	0.295	0.319	0.311	0.300	6.04
60)		1-Chlorohexane	0.385	0.445	0.488	0.486	0.510	0.488	0.467	9.71
61)	P	Chlorobenzene	0.937	0.988	0.936	0.914	0.937	0.904	0.936	3.09
62)		1,1,1,2-Tetrachloro	0.277	0.290	0.294	0.285	0.301	0.295	0.290	2.94
63)	C	Ethylbenzene	1.620	1.734	1.716	1.696	1.773	1.715	1.709	2.97
64)		m,p-Xylene	1.100	1.291	1.284	1.264	1.336	1.311	1.264	6.66
65)		o-Xylene	1.054	1.283	1.357	1.340	1.393	1.353	1.297	9.57
66)		Styrene	0.733	0.991	1.063	1.063	1.078	1.050	0.996	13.29
67)	P	Bromoform		0.203	0.214	0.226	0.240	0.239	0.224	7.11
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene	2.288	2.482	2.480	2.475	2.587	2.557	2.478	4.20
70)		Cyclohexanone	0.058	0.025	0.020	0.023	0.024	0.025	0.029	48.68
71)	S	4-Bromofluorobenzen	0.954	0.913	0.894	0.908	0.948	0.969	0.931	3.23
72)		Bromobenzene	0.781	0.846	0.773	0.756	0.770	0.771	0.783	4.09
73)	P	1,1,2,2-Tetrachloro	0.796	0.902	0.863	0.838	0.882	0.879	0.860	4.42
74)		trans-1,4-Dichloro-	0.092	0.071	0.097	0.129	0.159	0.180	0.121	34.84
75)		1,2,3-Trichloroprop	0.176	0.188	0.186	0.176	0.190	0.189	0.184	3.58
76)		n-Propylbenzene	3.796	3.820	3.708	3.695	3.858	3.862	3.790	1.92
77)		2-Chlorotoluene	2.251	2.502	2.402	2.352	2.487	2.495	2.415	4.14
78)		4-Chlorotoluene	2.089	2.201	2.168	2.149	2.258	2.256	2.187	2.99
79)		1,3,5-Trimethylbenz	1.949	2.103	2.115	2.113	2.213	2.195	2.114	4.42
80)		sec-Butylbenzene	2.654	2.654	2.718	2.675	2.743	2.691	2.689	1.34
81)		1,3-Dichlorobenzene	1.318	1.408	1.413	1.380	1.403	1.385	1.384	2.52
82)		4-Isopropyltoluene	1.816	1.900	2.072	2.059	2.089	2.038	1.996	5.58
83)		1,4-Dichlorobenzene	1.579	1.528	1.490	1.429	1.459	1.432	1.486	3.95
84)		tert-Butylbenzene	1.283	1.212	1.257	1.248	1.303	1.293	1.266	2.67
85)		n-Butylbenzene	1.942	2.016	2.297	2.350	2.412	2.371	2.232	8.99
86)		1,2-Dichlorobenzene	1.403	1.381	1.404	1.379	1.376	1.362	1.384	1.19
87)		1,2,4-Trimethylbenz	1.923	2.135	2.224	2.237	2.265	2.265	2.175	6.08
88)		1,2-Dibromo-3-Chlor		0.093	0.107	0.110	0.114	0.118	0.108	8.79
89)		1,2,4-Trichlorobenz	0.695	0.627	0.755	0.826	0.855	0.864	0.770	12.39
90)		Hexachlorobutadiene	0.383	0.354	0.345	0.342	0.350	0.341	0.353	4.49
91)		Naphthalene	2.230	1.241	1.570	1.762	1.844	1.867	1.752	18.83
92)		1,2,3-Trichlorobenz	0.667	0.551	0.644	0.732	0.750	0.757	0.683	11.61

Average % RSD = 7.5

(#) = Out of Range

8260APP1.M Tue Apr 16 15:21:54 2002 RPT1

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VB401-CC398
Lab FileID: B0009280.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041802\B0009280.D Vial: 1
Acq On : 18 Apr 2002 9:00 am Operator: JuanG
Sample : CC398-40PPB Inst : MSVOA4
Misc : ms1453,vb401,5.0,,,5.0,1,water Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 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	104	0.00
2		Dichlorodifluoromethane	0.241	0.195	19.1	81	0.00
3	P	Chloromethane	0.479	0.405	15.4	88	0.00
4	C	Vinyl Chloride	0.369	0.322	12.7	88	0.01
5		Bromomethane	0.196	0.180	8.2	94	0.00
6		Chloroethane	0.183	0.171	6.6	95	0.00
7		Trichlorofluoromethane	0.223	0.229	-2.7	105	0.00
8		Acrolein	0.012	0.016	-33.3#	141	-0.01
9	C	1,1-Dichloroethene	0.420	0.415	1.2	100	0.00
10		Freon 113	0.194	0.185	4.6	91	0.00
11		Acetone	0.078	0.073	6.4	103	0.00
12		Iodomethane	0.289	0.267	7.6	90	0.00
13		Methyl acetate	0.225	0.211	6.2	100	0.00
14		Carbon Disulfide	0.972	0.912	6.2	101	0.00
15		Methylene Chloride	0.488	0.467	4.3	100	0.00
16		Tert Butyl Alcohol	0.021	0.019	9.5	90	0.00
17		trans-1,2-Dichloroethene	0.393	0.387	1.5	104	0.00
18		Acrylonitrile	0.081	0.073	9.9	92	0.00
19		Methyl Tert Butyl Ether	0.575	0.574	0.2	102	0.00
20		Hexane	0.338	0.340	-0.6	105	0.00
21	P	1,1-Dichloroethane	0.478	0.473	1.0	102	-0.01
22		ETBE	0.817	0.813	0.5	101	0.00
23		Vinyl acetate	0.473	0.468	1.1	103	0.00
24		Di-isopropyl ether	1.147	1.138	0.8	102	0.00
25		2,2-Dichloropropane	0.189	0.182	3.7	100	0.00
26		cis-1,2-Dichloroethene	0.270	0.259	4.1	103	0.00
27		2-Butanone	0.130	0.125	3.8	100	0.00
28		Bromochloromethane	0.105	0.108	-2.9	105	0.00
29	C	Chloroform	0.407	0.386	5.2	104	-0.01
30		Tetrahydrofuran	0.087	0.082	5.7	99	0.00
31		1,1,1-Trichloroethane	0.274	0.256	6.6	97	-0.01
32	S	Dibromofluoromethane	0.210	0.210	0.0	105	0.00
33		Cyclohexane	0.482	0.461	4.4	97	0.00
34		1,1-Dichloropropene	0.287	0.286	0.3	101	0.00
35		Carbon Tetrachloride	0.213	0.206	3.3	102	-0.01
36	S	1,2-Dichloroethane-d4	0.258	0.252	2.3	104	0.00
37		TAME	0.668	0.652	2.4	101	0.00
38		Benzene	1.045	1.026	1.8	103	0.00
39		1,2-Dichloroethane	0.331	0.304	8.2	102	0.00
40		Trichloroethene	0.239	0.232	2.9	105	0.00
41		Methylcyclohexane	0.348	0.340	2.3	105	0.00
42	C	1,2-Dichloropropane	0.295	0.297	-0.7	105	0.00

Continuing Calibration Summary

Job Number: F12883 **Sample:** VB401-CC398
Account: ITTNKNOX IT Corporation **Lab FileID:** B0009280.D
Project: Plum Brook Ordnance WKS.

43		Dibromomethane	0.143	0.143	0.0	103	0.00
44		1,4-Dioxane	0.002	0.002	0.0	102	0.00
45		Bromodichloromethane	0.300	0.294	2.0	103	0.00
46		2-Nitropropane	0.061	0.065	-6.6	109	0.00
47		2-Chloroethyl vinyl ether	0.146	0.146	0.0	104	0.00
48		4-Methyl-2-pentanone	0.290	0.282	2.8	98	0.00
49		cis-1,3-Dichloropropene	0.381	0.393	-3.1	106	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
51	S	Toluene-d8	1.372	1.353	1.4	103	0.00
52	C	Toluene	1.574	1.523	3.2	103	0.00
53		trans-1,3-Dichloropropene	0.475	0.493	-3.8	104	0.00
54		1,1,2-Trichloroethane	0.295	0.286	3.1	100	-0.01
55		Tetrachloroethene	0.332	0.327	1.5	104	0.00
56		2-hexanone	0.286	0.284	0.7	97	0.00
57		1,3-Dichloropropane	0.557	0.549	1.4	103	0.00
58		Dibromochloromethane	0.290	0.292	-0.7	103	0.00
59		1,2-Dibromoethane	0.300	0.291	3.0	102	0.00
60		1-Chlorohexane	0.467	0.469	-0.4	100	0.00
61	P	Chlorobenzene	0.936	0.913	2.5	103	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.288	0.7	104	0.00
63	C	Ethylbenzene	1.709	1.676	1.9	102	0.00
64		m,p-Xylene	1.264	1.248	1.3	102	0.00
65		o-Xylene	1.297	1.312	-1.2	101	0.00
66		Styrene	0.996	1.049	-5.3	102	0.00
67	P	Bromoform	0.224	0.227	-1.3	104	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
69		Isopropylbenzene	2.478	2.432	1.9	102	0.00
70		Cyclohexanone	0.029	0.021	27.6#	97	0.00
71	S	4-Bromofluorobenzene	0.931	0.891	4.3	102	0.00
72		Bromobenzene	0.783	0.736	6.0	101	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.811	5.7	100	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.175	-44.6#	140	0.00
75		1,2,3-Trichloropropane	0.184	0.176	4.3	103	0.00
76		n-Propylbenzene	3.790	3.601	5.0	101	0.00
77		2-Chlorotoluene	2.415	2.313	4.2	102	0.00
78		4-Chlorotoluene	2.187	2.143	2.0	103	0.00
79		1,3,5-Trimethylbenzene	2.114	2.069	2.1	101	0.00
80		sec-Butylbenzene	2.689	2.616	2.7	101	0.00
81		1,3-Dichlorobenzene	1.384	1.361	1.7	102	0.00
82		4-Isopropyltoluene	1.996	2.001	-0.3	101	0.00
83		1,4-Dichlorobenzene	1.486	1.428	3.9	103	0.00
84		tert-Butylbenzene	1.266	1.213	4.2	101	0.00
85		n-Butylbenzene	2.232	2.336	-4.7	103	0.00
86		1,2-Dichlorobenzene	1.384	1.344	2.9	101	0.00
87		1,2,4-Trimethylbenzene	2.175	2.169	0.3	100	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.108	0.0	102	0.00
89		1,2,4-Trichlorobenzene	0.770	0.829	-7.7	104	0.00
90		Hexachlorobutadiene	0.353	0.350	0.8	106	0.00
91		Naphthalene	1.752	1.679	4.2	99	0.00
92		1,2,3-Trichlorobenzene	0.683	0.711	-4.1	101	0.00

Average % D = 4.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B0009215.D 8260APP1.M Thu Apr 18 14:31:09 2002 RPT1

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VB402-CC398
Lab FileID: B0009303.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041902\B0009303.D Vial: 1
Acq On : 19 Apr 2002 9:42 am Operator: JuanG
Sample : CC398-20PPB Inst : MSVOA4
Misc : ms1466,vb402,5.0,,,5.0,1,water Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Apr 18 16:53:44 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	123	0.00
2		Dichlorodifluoromethane	0.241	0.196	18.7	109	0.00
3	P	Chloromethane	0.479	0.410	14.4	111	0.00
4	C	Vinyl Chloride	0.369	0.312	15.4	113	0.00
5		Bromomethane	0.196	0.179	8.7	120	0.00
6		Chloroethane	0.183	0.167	8.7	119	0.00
7		Trichlorofluoromethane	0.223	0.226	-1.3	134	0.00
8		Acrolein	0.012	0.013	-8.3	166	0.00
9	C	1,1-Dichloroethene	0.420	0.399	5.0	115	0.00
10		Freon 113	0.194	0.171	11.9	101	0.02
11		Acetone	0.078	0.073	6.4	119	0.00
12		Iodomethane	0.289	0.243	15.9	107	0.00
13		Methyl acetate	0.225	0.211	6.2	114	0.00
14		Carbon Disulfide	0.972	0.929	4.4	118	0.00
15		Methylene Chloride	0.488	0.489	-0.2	120	0.00
16		Tert Butyl Alcohol	0.021	0.018	14.3	109	0.00
17		trans-1,2-Dichloroethene	0.393	0.376	4.3	117	0.00
18		Acrylonitrile	0.081	0.064	21.0#	93	0.00
19		Methyl Tert Butyl Ether	0.575	0.547	4.9	113	0.00
20		Hexane	0.338	0.330	2.4	118	0.00
21	P	1,1-Dichloroethane	0.478	0.474	0.8	121	0.00
22		ETBE	0.817	0.801	2.0	117	0.00
23		Vinyl acetate	0.473	0.461	2.5	123	0.00
24		Di-isopropyl ether	1.147	1.131	1.4	118	0.00
25		2,2-Dichloropropane	0.189	0.185	2.1	118	0.00
26		cis-1,2-Dichloroethene	0.270	0.265	1.9	118	0.00
27		2-Butanone	0.130	0.120	7.7	113	0.00
28		Bromochloromethane	0.105	0.111	-5.7	125	0.00
29	C	Chloroform	0.407	0.392	3.7	123	0.00
30		Tetrahydrofuran	0.087	0.079	9.2	113	0.00
31		1,1,1-Trichloroethane	0.274	0.260	5.1	116	-0.01
32	S	Dibromofluoromethane	0.210	0.208	1.0	124	0.00
33		Cyclohexane	0.482	0.450	6.6	113	0.00
34		1,1-Dichloropropene	0.287	0.281	2.1	119	0.00
35		Carbon Tetrachloride	0.213	0.208	2.3	121	0.00
36	S	1,2-Dichloroethane-d4	0.258	0.257	0.4	123	0.00
37		TAME	0.668	0.634	5.1	114	0.00
38		Benzene	1.045	1.056	-1.1	124	0.00
39		1,2-Dichloroethane	0.331	0.305	7.9	120	0.00
40		Trichloroethene	0.239	0.234	2.1	122	0.00
41		Methylcyclohexane	0.348	0.330	5.2	116	0.00
42	C	1,2-Dichloropropane	0.295	0.300	-1.7	125	0.00

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VB402-CC398
Lab FileID: B0009303.D

43		Dibromomethane	0.143	0.142	0.7	119	0.00
44		1,4-Dioxane	0.002	0.002	0.0	126	0.00
45		Bromodichloromethane	0.300	0.295	1.7	121	0.00
46		2-Nitropropane	0.061	0.063	-3.3	126	0.00
47		2-Chloroethyl vinyl ether	0.146	0.137	6.2	119	0.00
48		4-Methyl-2-pentanone	0.290	0.274	5.5	109	0.00
49		cis-1,3-Dichloropropene	0.381	0.387	-1.6	122	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
51	S	Toluene-d8	1.372	1.358	1.0	122	0.00
52	C	Toluene	1.574	1.557	1.1	120	0.00
53		trans-1,3-Dichloropropene	0.475	0.495	-4.2	127	0.00
54		1,1,2-Trichloroethane	0.295	0.288	2.4	117	0.00
55		Tetrachloroethene	0.332	0.328	1.2	121	0.00
56		2-hexanone	0.286	0.264	7.7	108	0.00
57		1,3-Dichloropropane	0.557	0.550	1.3	118	0.00
58		Dibromochloromethane	0.290	0.285	1.7	123	0.00
59		1,2-Dibromoethane	0.300	0.282	6.0	115	0.00
60		1-Chlorohexane	0.467	0.463	0.9	117	0.00
61	P	Chlorobenzene	0.936	0.924	1.3	121	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.288	0.7	120	0.00
63	C	Ethylbenzene	1.709	1.651	3.4	118	0.00
64		m,p-Xylene	1.264	1.256	0.6	120	0.00
65		o-Xylene	1.297	1.294	0.2	117	0.00
66		Styrene	0.996	1.029	-3.3	119	0.00
67	P	Bromoform	0.224	0.215	4.0	123	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
69		Isopropylbenzene	2.478	2.415	2.5	118	0.00
70		Cyclohexanone	0.029	0.020	31.0#	121	0.00
71	S	4-Bromofluorobenzene	0.931	0.878	5.7	119	0.00
72		Bromobenzene	0.783	0.768	1.9	121	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.808	6.0	114	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.175	-44.6#	220#	0.00
75		1,2,3-Trichloropropane	0.184	0.166	9.8	109	0.00
76		n-Propylbenzene	3.790	3.653	3.6	120	0.00
77		2-Chlorotoluene	2.415	2.315	4.1	117	0.00
78		4-Chlorotoluene	2.187	2.118	3.2	119	0.00
79		1,3,5-Trimethylbenzene	2.114	2.064	2.4	119	0.00
80		sec-Butylbenzene	2.689	2.645	1.6	118	0.00
81		1,3-Dichlorobenzene	1.384	1.381	0.2	119	0.00
82		4-Isopropyltoluene	1.996	2.019	-1.2	118	0.00
83		1,4-Dichlorobenzene	1.486	1.456	2.0	119	0.00
84		tert-Butylbenzene	1.266	1.186	6.3	115	0.00
85		n-Butylbenzene	2.232	2.260	-1.3	120	0.00
86		1,2-Dichlorobenzene	1.384	1.352	2.3	117	0.00
87		1,2,4-Trimethylbenzene	2.175	2.199	-1.1	120	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.101	6.5	116	0.00
89		1,2,4-Trichlorobenzene	0.770	0.766	0.5	123	0.00
90		Hexachlorobutadiene	0.353	0.351	0.6	123	0.00
91		Naphthalene	1.752	1.504	14.2	116	0.00
92		1,2,3-Trichlorobenzene	0.683	0.664	2.8	125	0.00

Average % D = 5.2

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B0009214.D 8260APP1.M Mon Apr 22 10:33:17 2002 RPT1

GC/MS Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	20.7	41*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	31.1	62*	70-125
120-83-2	2,4-Dichlorophenol	50	22.6	45*	68-125
105-67-9	2,4-Dimethylphenol	50	28.0	56	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	30.7	61	51-125
	3&4-Methylphenol	100	52.1	52	46-125
88-75-5	2-Nitrophenol	50	22.0	44*	64-125
100-02-7	4-Nitrophenol	50	2.8	6*	17-125
87-86-5	Pentachlorophenol	50	11.8	24*	60-125
108-95-2	Phenol	50	13.5	27	16-125
95-95-4	2,4,5-Trichlorophenol	50	23.2	46*	74-125
88-06-2	2,4,6-Trichlorophenol	50	20.0	40*	70-125
83-32-9	Acenaphthene	50	44.9	90	70-125
208-96-8	Acenaphthylene	50	52.6	105	75-125
120-12-7	Anthracene	50	50.1	100	75-125
56-55-3	Benzo(a)anthracene	50	50.0	100	75-125
50-32-8	Benzo(a)pyrene	50	51.3	103	75-125
205-99-2	Benzo(b)fluoranthene	50	46.9	94	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.0	108	57-135
207-08-9	Benzo(k)fluoranthene	50	48.2	96	75-125
101-55-3	4-Bromophenyl phenyl ether	50	47.9	96	74-125
85-68-7	Butyl benzyl phthalate	50	49.2	98	38-134
100-51-6	Benzyl Alcohol	50	36.8	74	30-125
91-58-7	2-Chloronaphthalene	50	46.2	92	59-125
106-47-8	4-Chloroaniline	50	46.3	93	31-125
86-74-8	Carbazole	50	49.2	98	75-125
218-01-9	Chrysene	50	47.9	96	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	43.1	86	64-125
111-44-4	bis(2-Chloroethyl)ether	50	41.9	84	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	45.7	91	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	49.0	98	75-125
95-50-1	1,2-Dichlorobenzene	50	40.3	81	35-125
541-73-1	1,3-Dichlorobenzene	50	37.3	75	30-125
106-46-7	1,4-Dichlorobenzene	50	38.1	76	32-125

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	47.9	96	73-125
606-20-2	2,6-Dinitrotoluene	50	49.6	99	75-125
91-94-1	3,3'-Dichlorobenzidine	50	54.0	108	55-125
53-70-3	Dibenzo(a,h)anthracene	50	53.0	106	64-130
132-64-9	Dibenzofuran	50	44.6	89	73-125
84-74-2	Di-n-butyl phthalate	50	49.7	99	47-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	52-125
84-66-2	Diethyl phthalate	50	48.5	97	59-125
131-11-3	Dimethyl phthalate	50	48.9	98	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.5	105	71-125
206-44-0	Fluoranthene	50	49.9	100	75-125
86-73-7	Fluorene	50	48.4	97	75-125
118-74-1	Hexachlorobenzene	50	47.9	96	74-125
87-68-3	Hexachlorobutadiene	50	35.4	71	22-125
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	10-125
67-72-1	Hexachloroethane	50	36.4	73	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	52.8	106	53-130
78-59-1	Isophorone	50	43.8	88	63-125
91-57-6	2-Methylnaphthalene	50	41.0	82	51-125
88-74-4	2-Nitroaniline	50	48.1	96	75-125
99-09-2	3-Nitroaniline	50	48.1	96	62-125
100-01-6	4-Nitroaniline	50	51.3	103	67-125
91-20-3	Naphthalene	50	42.6	85	53-125
98-95-3	Nitrobenzene	50	43.9	88	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	61-125
86-30-6	N-Nitrosodiphenylamine	50	52.3	105	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	46.8	94	67-125
120-82-1	1,2,4-Trichlorobenzene	50	41.6	83	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	28%	20-125%
4165-62-2	Phenol-d5	22%	10-125%
118-79-6	2,4,6-Tribromophenol	51%	35-140%

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	87%	46-125%
1718-51-0	Terphenyl-d14	98%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	23.1	46*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	35.5	71	70-125
120-83-2	2,4-Dichlorophenol	50	25.7	51*	68-125
105-67-9	2,4-Dimethylphenol	50	24.3	49	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	33.6	67	51-125
	3&4-Methylphenol	100	58.4	58	46-125
88-75-5	2-Nitrophenol	50	25.2	50*	64-125
100-02-7	4-Nitrophenol	50	3.1	6*	17-125
87-86-5	Pentachlorophenol	50	11.3	23*	60-125
108-95-2	Phenol	50	15.0	30	16-125
95-95-4	2,4,5-Trichlorophenol	50	26.3	53*	74-125
88-06-2	2,4,6-Trichlorophenol	50	22.1	44*	70-125
83-32-9	Acenaphthene	50	48.7	97	70-125
208-96-8	Acenaphthylene	50	56.6	113	75-125
120-12-7	Anthracene	50	56.0	112	75-125
56-55-3	Benzo(a)anthracene	50	54.4	109	75-125
50-32-8	Benzo(a)pyrene	50	57.9	116	75-125
205-99-2	Benzo(b)fluoranthene	50	54.2	108	75-125
191-24-2	Benzo(g,h,i)perylene	50	58.2	116	57-135
207-08-9	Benzo(k)fluoranthene	50	54.6	109	75-125
101-55-3	4-Bromophenyl phenyl ether	50	52.6	105	74-125
85-68-7	Butyl benzyl phthalate	50	53.2	106	38-134
100-51-6	Benzyl Alcohol	50	42.1	84	30-125
91-58-7	2-Chloronaphthalene	50	50.8	102	59-125
106-47-8	4-Chloroaniline	50	52.4	105	31-125
86-74-8	Carbazole	50	55.0	110	75-125
218-01-9	Chrysene	50	52.7	105	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	48.6	97	64-125
111-44-4	bis(2-Chloroethyl)ether	50	47.9	96	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	50.6	101	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	52.4	105	75-125
95-50-1	1,2-Dichlorobenzene	50	44.8	90	35-125
541-73-1	1,3-Dichlorobenzene	50	40.9	82	30-125
106-46-7	1,4-Dichlorobenzene	50	42.5	85	32-125

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	54.2	108	73-125
606-20-2	2,6-Dinitrotoluene	50	55.0	110	75-125
91-94-1	3,3'-Dichlorobenzidine	50	57.5	115	55-125
53-70-3	Dibenzo(a,h)anthracene	50	57.2	114	64-130
132-64-9	Dibenzofuran	50	48.7	97	73-125
84-74-2	Di-n-butyl phthalate	50	54.4	109	47-140
117-84-0	Di-n-octyl phthalate	50	51.2	102	52-125
84-66-2	Diethyl phthalate	50	52.2	104	59-125
131-11-3	Dimethyl phthalate	50	52.9	106	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.7	103	71-125
206-44-0	Fluoranthene	50	55.2	110	75-125
86-73-7	Fluorene	50	52.6	105	75-125
118-74-1	Hexachlorobenzene	50	54.3	109	74-125
87-68-3	Hexachlorobutadiene	50	39.3	79	22-125
77-47-4	Hexachlorocyclopentadiene	50	30.5	61	10-125
67-72-1	Hexachloroethane	50	40.4	81	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	57.1	114	53-130
78-59-1	Isophorone	50	49.6	99	63-125
91-57-6	2-Methylnaphthalene	50	45.7	91	51-125
88-74-4	2-Nitroaniline	50	53.4	107	75-125
99-09-2	3-Nitroaniline	50	54.0	108	62-125
100-01-6	4-Nitroaniline	50	57.0	114	67-125
91-20-3	Naphthalene	50	48.9	98	53-125
98-95-3	Nitrobenzene	50	50.1	100	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	50.7	101	61-125
86-30-6	N-Nitrosodiphenylamine	50	58.1	116	75-125
85-01-8	Phenanthrene	50	53.4	107	75-125
129-00-0	Pyrene	50	52.1	104	67-125
120-82-1	1,2,4-Trichlorobenzene	50	46.5	93	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	20-125%
4165-62-2	Phenol-d5	25%	10-125%
118-79-6	2,4,6-Tribromophenol	56%	35-140%

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	96%	46-125%
1718-51-0	Terphenyl-d14	106%	49-126%

(a) Recovery within control limits in MS/MSD.

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	31%	10-125%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	77%	35-140%
4165-60-0	Nitrobenzene-d5	69%	46-125%
321-60-8	2-Fluorobiphenyl	68%	46-125%
1718-51-0	Terphenyl-d14	88%	49-126%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	32%	10-125%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	79%	35-140%
4165-60-0	Nitrobenzene-d5	70%	46-125%
321-60-8	2-Fluorobiphenyl	66%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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 phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	20-125%
4165-62-2	Phenol-d5	32%	10-125%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	81%	35-140%
4165-60-0	Nitrobenzene-d5	72%	46-125%
321-60-8	2-Fluorobiphenyl	70%	46-125%
1718-51-0	Terphenyl-d14	94%	49-126%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	89.7	90	83.3	83	7	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	91.3	91	86.1	86	6	72-125/20
120-83-2	2,4-Dichlorophenol	ND		100	94.5	95	89.3	89	6	65-125/20
105-67-9	2,4-Dimethylphenol	ND		100	57.7	58	57.2	57	1	37-125/20
51-28-5	2,4-Dinitrophenol	ND		100	47.4	47	68.8	69	37	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		100	78.1	78	80.2	80	3	54-125/20
95-48-7	2-Methylphenol	ND		100	88.7	89	85.0	85	4	57-125/20
	3&4-Methylphenol	ND		200	174	87	164	82	6	55-125/20
88-75-5	2-Nitrophenol	ND		100	95.1	95	88.5	89	7	67-125/20
100-02-7	4-Nitrophenol	ND		100	57.1	57	59.1	59	3	41-125/23
87-86-5	Pentachlorophenol	ND		100	74.9	75	68.6	69	9	67-126/20
108-95-2	Phenol	ND		100	67.6	68	65.2	65	4	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		100	99.7	100	91.8	92	8	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		100	94.3	94	87.7	88	7	70-125/20
83-32-9	Acenaphthene	ND		100	95.5	96	89.3	89	7	74-125/20
208-96-8	Acenaphthylene	ND		100	112	112	105	105	6	75-125/20
120-12-7	Anthracene	ND		100	103	103	97.4	97	6	75-125/20
56-55-3	Benzo(a)anthracene	ND		100	99.6	100	93.8	94	6	75-125/20
50-32-8	Benzo(a)pyrene	ND		100	105	105	99.6	100	5	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		100	98.0	98	94.1	94	4	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		100	107	107	99.5	100	7	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		100	99.8	100	95.2	95	5	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		100	100	100	95.8	96	4	73-125/20
85-68-7	Butyl benzyl phthalate	ND		100	95.8	96	89.8	90	6	66-125/20
100-51-6	Benzyl Alcohol	ND		100	92.1	92	87.2	87	5	53-125/20
91-58-7	2-Chloronaphthalene	ND		100	99.0	99	96.0	96	3	64-125/20
106-47-8	4-Chloroaniline	ND		100	91.1	91	85.1	85	7	44-125/20
86-74-8	Carbazole	ND		100	103	103	96.5	97	7	75-125/20
218-01-9	Chrysene	ND		100	97.8	98	89.8	90	9	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		100	95.6	96	89.6	90	6	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		100	94.0	94	89.9	90	4	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	99.8	100	94.5	95	5	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	99.2	99	93.1	93	6	75-125/20
95-50-1	1,2-Dichlorobenzene	ND		100	86.3	86	82.7	83	4	39-125/20
541-73-1	1,3-Dichlorobenzene	ND		100	80.2	80	76.8	77	4	36-125/20
106-46-7	1,4-Dichlorobenzene	ND		100	82.7	83	79.2	79	4	39-125/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Compound	F12899-2 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		100	99.5	100	94.1	94	6	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		100	102	102	96.7	97	5	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		100	99.8	100	90.6	91	10	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		100	102	102	95.3	95	7	64-127/20
132-64-9	Dibenzofuran	ND		100	94.9	95	90.0	90	5	73-125/20
84-74-2	Di-n-butyl phthalate	ND		100	98.3	98	93.8	94	5	71-125/20
117-84-0	Di-n-octyl phthalate	ND		100	96.4	96	85.9	86	12	66-125/30
84-66-2	Diethyl phthalate	ND		100	95.4	95	89.0	89	7	64-125/20
131-11-3	Dimethyl phthalate	ND		100	99.6	100	92.4	92	7	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	101	101	89.2	89	12	74-125/20
206-44-0	Fluoranthene	ND		100	102	102	93.7	94	8	75-125/20
86-73-7	Fluorene	ND		100	102	102	94.2	94	8	75-125/20
118-74-1	Hexachlorobenzene	ND		100	98.8	99	96.1	96	3	75-125/20
87-68-3	Hexachlorobutadiene	ND		100	78.8	79	75.4	75	4	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		100	58.9	59	72.3	72	20	18-125/27
67-72-1	Hexachloroethane	ND		100	78.3	78	76.5	77	2	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	105	105	96.5	97	8	54-125/20
78-59-1	Isophorone	ND		100	97.0	97	90.2	90	7	62-125/20
91-57-6	2-Methylnaphthalene	ND		100	90.9	91	84.6	85	7	58-125/20
88-74-4	2-Nitroaniline	ND		100	98.7	99	94.0	94	5	67-125/20
99-09-2	3-Nitroaniline	ND		100	85.0	85	76.0	76	11	53-125/20
100-01-6	4-Nitroaniline	ND		100	100	100	92.3	92	8	63-125/20
91-20-3	Naphthalene	ND		100	94.1	94	91.2	91	3	55-125/20
98-95-3	Nitrobenzene	ND		100	98.2	98	94.1	94	4	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		100	95.1	95	88.9	89	7	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		100	109	109	102	102	7	75-125/20
85-01-8	Phenanthrene	ND		100	99.0	99	93.1	93	6	75-125/20
129-00-0	Pyrene	ND		100	99.1	99	89.6	90	10	67-125/20
120-82-1	1,2,4-Trichlorobenzene	ND		100	91.6	92	87.2	87	5	45-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
367-12-4	2-Fluorophenol	79%	74%	49%	44%	20-125%
4165-62-2	Phenol-d5	62%	61%	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	97%	89%	84%	82%	35-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12883-1

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
4165-60-0	Nitrobenzene-d5	95%	88%	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	94%	87%	77%	73%	46-125%
1718-51-0	Terphenyl-d14	98%	90%	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8) [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
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
F12883-1	W009527.D	04/23/02	13:53	03:50	CB3035
ZZZZZZ	W009528.D	04/23/02	14:24	04:21	(unrelated sample)
ZZZZZZ	W009529.D	04/23/02	14:54	04:51	(unrelated sample)
ZZZZZZ	W009530.D	04/23/02	15:24	05:21	(unrelated sample)
ZZZZZZ	W009531.D	04/23/02	15:54	05:51	(unrelated sample)
ZZZZZZ	W009532.D	04/23/02	16:25	06:22	(unrelated sample)
ZZZZZZ	W009533.D	04/23/02	16:54	06:51	(unrelated sample)
ZZZZZZ	W009534.D	04/23/02	17:24	07:21	(unrelated sample)
ZZZZZZ	W009535.D	04/23/02	17:55	07:52	(unrelated sample)
ZZZZZZ	W009536.D	04/23/02	18:25	08:22	(unrelated sample)
ZZZZZZ	W009537.D	04/23/02	18:55	08:52	(unrelated sample)
ZZZZZZ	W009538.D	04/23/02	19:24	09:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW527-DFTPP	**Injection Date:**	04/23/02
Lab File ID:	W009519.D	**Injection Time:**	10:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job F12883)
ZZZZZZ	W009542.D	04/23/02	21:25	11:22	(unrelated sample)
ZZZZZZ	W009543.D	04/23/02	21:55	11:52	(unrelated sample)
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job F12883)
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6) [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
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12883)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job F12883)
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW528-DFTPP	**Injection Date:**	04/24/02
Lab File ID:	W009555.D	**Injection Time:**	15:09
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97809	57.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	68655	40.1		Pass
70	Less than 2.0% of mass 69	347	0.2	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	79722	46.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	171025	100.0		Pass
199	5.0 - 9.0% of mass 198	11119	6.5		Pass
275	10.0 - 30.0% of mass 198	33556	19.6		Pass
365	1.0 - 100.0% of mass 198	3085	1.8		Pass
441	Present, but less than mass 443	18476	10.8	(78.5) [b]	Pass
442	40.0 - 100.0% of mass 198	122253	71.5		Pass
443	17.0 - 23.0% of mass 442	23527	13.8	(19.2) [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
SW528-CC518	W009556.D	04/24/02	15:27	00:18	Continuing cal 75
OP4993-BS	W009557.D	04/24/02	15:57	00:48	Blank Spike
OP4993-MB	W009558.D	04/24/02	16:27	01:18	Method Blank
OP4993-MS	W009559.D	04/24/02	16:57	01:48	Matrix Spike
OP4993-MSD	W009560.D	04/24/02	17:28	02:19	Matrix Spike Duplicate
ZZZZZZ	W009561.D	04/24/02	17:58	02:49	(unrelated sample)
ZZZZZZ	W009562.D	04/24/02	18:28	03:19	(unrelated sample)
ZZZZZZ	W009563.D	04/24/02	18:58	03:49	(unrelated sample)
ZZZZZZ	W009564.D	04/24/02	19:28	04:19	(unrelated sample)
ZZZZZZ	W009565.D	04/24/02	19:58	04:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW530-DFTPP	**Injection Date:**	04/25/02
Lab File ID:	W009577.D	**Injection Time:**	15:33
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99158	47.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	70918	33.8		Pass
70	Less than 2.0% of mass 69	410	0.2	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	90603	43.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	209933	100.0		Pass
199	5.0 - 9.0% of mass 198	13726	6.5		Pass
275	10.0 - 30.0% of mass 198	45787	21.8		Pass
365	1.0 - 100.0% of mass 198	4120	2.0		Pass
441	Present, but less than mass 443	29685	14.1	(75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	204309	97.3		Pass
443	17.0 - 23.0% of mass 442	39352	18.7	(19.3) [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
SW530-CC518	W009578.D	04/25/02	15:51	00:18	Continuing cal 50
OP4993-BS2	W009579.D	04/25/02	16:21	00:48	Blank Spike
OP4993-MB2	W009580.D	04/25/02	16:51	01:18	Method Blank
F12899-2	W009581.D	04/25/02	17:21	01:48	(used for QC only; not part of job F12883)
ZZZZZZ	W009584.D	04/25/02	18:51	03:18	(unrelated sample)
ZZZZZZ	W009585.D	04/25/02	19:20	03:47	(unrelated sample)
ZZZZZZ	W009586.D	04/25/02	19:51	04:18	(unrelated sample)
ZZZZZZ	W009587.D	04/25/02	20:20	04:47	(unrelated sample)
ZZZZZZ	W009588.D	04/25/02	20:50	05:17	(unrelated sample)
ZZZZZZ	W009589.D	04/25/02	21:20	05:47	(unrelated sample)
ZZZZZZ	W009590.D	04/25/02	21:50	06:17	(unrelated sample)
ZZZZZZ	W009591.D	04/25/02	22:20	06:47	(unrelated sample)
ZZZZZZ	W009592.D	04/25/02	22:49	07:16	(unrelated sample)
ZZZZZZ	W009593.D	04/25/02	23:19	07:46	(unrelated sample)
ZZZZZZ	W009594.D	04/25/02	23:49	08:16	(unrelated sample)
ZZZZZZ	W009595.D	04/26/02	00:19	08:46	(unrelated sample)
ZZZZZZ	W009596.D	04/26/02	00:48	09:15	(unrelated sample)
ZZZZZZ	W009597.D	04/26/02	01:18	09:45	(unrelated sample)
ZZZZZZ	W009598.D	04/26/02	01:48	10:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-DFTPP
Lab File ID: W009577.D
Instrument ID: GCMSW
Injection Date: 04/25/02
Injection Time: 15:33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009599.D	04/26/02	02:18	10:45	(unrelated sample)
OP4993-MB	W009600.D	04/26/02	02:48	11:15	Method Blank
ZZZZZZ	W009601.D	04/26/02	03:17	11:44	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	259341	5.19	912494	6.42	433150	8.78	536865	11.32	302343	16.26	199447	18.76
Upper Limit [a]	518682	5.69	1824988	6.92	866300	9.28	1073730	11.82	604686	16.76	398894	19.26
Lower Limit [b]	129671	4.69	456247	5.92	216575	8.28	268433	10.82	151172	15.76	99724	18.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4979-MB	253840	5.19	896872	6.42	421422	8.78	533865	11.31	337085	16.25	209473	18.75
ZZZZZZ	246551	5.19	852067	6.42	403848	8.78	495963	11.31	301638	16.24	193370	18.75
ZZZZZZ	245553	5.19	843939	6.41	392646	8.78	480502	11.31	297606	16.24	192611	18.75
ZZZZZZ	257326	5.19	903992	6.41	435169	8.77	543476	11.31	344822	16.25	223659	18.75
OP4993-BS [c]	234760	5.19	815524	6.42	377077	8.78	469730	11.31	275814	16.25	195065	18.75
OP4993-MB	241156	5.19	860373	6.41	408147	8.78	514950	11.31	327166	16.24	206929	18.75
F12883-1 [d]	258616	5.19	890818	6.42	426858	8.78	518945	11.31	312429	16.25	196116	18.75
ZZZZZZ	241752	5.19	807181	6.42	365349	8.78	425282	11.32	244711	16.25	171978	18.76
ZZZZZZ	199444	5.19	659395	6.42	294914	8.78	355167	11.32	243582	16.26	178606	18.76
ZZZZZZ	229066	5.19	818603	6.42	391312	8.78	475830	11.31	302677	16.25	194352	18.76
ZZZZZZ	255637	5.19	889861	6.41	433120	8.78	543199	11.31	337194	16.25	209347	18.75
ZZZZZZ	238509	5.19	839521	6.42	397164	8.78	489377	11.31	309934	16.25	200598	18.75
ZZZZZZ	242231	5.19	840595	6.42	403441	8.78	497498	11.31	297831	16.25	189009	18.75
ZZZZZZ	208193	5.19	683077	6.42	302708	8.78	358078	11.32	241373	16.26	175200	18.76
ZZZZZZ	263053	5.19	923033	6.42	441106	8.78	552182	11.31	344758	16.25	211109	18.76
ZZZZZZ	243365	5.19	852340	6.42	390661	8.78	501427	11.31	315697	16.25	204562	18.75
ZZZZZZ	255982	5.19	886610	6.42	420898	8.78	527416	11.32	334342	16.25	204951	18.75
ZZZZZZ	243087	5.19	862067	6.41	407569	8.77	503719	11.31	318686	16.25	200827	18.75
F12899-2	237783	5.19	833382	6.41	387453	8.78	492519	11.31	304364	16.25	193936	18.75
ZZZZZZ	254705	5.19	866710	6.42	409782	8.78	509097	11.31	322923	16.25	204805	18.75
ZZZZZZ	226499	5.19	773782	6.42	357997	8.78	451904	11.31	289234	16.25	194811	18.75
OP5023-BS	264429	5.19	922367	6.41	441886	8.78	536864	11.31	310342	16.26	209805	18.76
OP5023-MB	231871	5.19	809279	6.42	384930	8.77	469976	11.31	291635	16.25	188431	18.75
F12946-11	245243	5.19	875236	6.41	408086	8.78	497064	11.31	313368	16.24	203875	18.75
OP5023-MS	256126	5.19	899377	6.42	439354	8.78	528716	11.31	303510	16.25	206398	18.75
OP5023-MSD	254868	5.19	907368	6.42	429728	8.78	527860	11.31	308137	16.25	201945	18.75

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.

Semivolatile Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recovery within control limits in MS/MSD.
(d) QC outside of control limits. Insufficient sample for re-extraction.

Semivolatile Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW528-CC518	**Injection Date:**	04/24/02
Lab File ID:	W009556.D	**Injection Time:**	15:27
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	215371	5.19	752961	6.41	344058	8.77	422152	11.30	234026	16.24	156629	18.74
Upper Limit [a]	430742	5.69	1505922	6.91	688116	9.27	844304	11.80	468052	16.74	313258	19.24
Lower Limit [b]	107686	4.69	376481	5.91	172029	8.27	211076	10.80	117013	15.74	78315	18.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS [c]	216703	5.19	754557	6.41	361004	8.77	434369	11.30	256270	16.24	167650	18.74
OP4993-MB	252297	5.18	888555	6.41	422232	8.76	519142	11.30	340099	16.23	215247	18.74
OP4993-MS	221104	5.18	762546	6.41	359228	8.77	436091	11.30	249853	16.24	170968	18.74
OP4993-MSD	243017	5.19	842234	6.41	394079	8.77	466192	11.30	270515	16.24	176656	18.74
ZZZZZZ	257390	5.18	892534	6.41	429496	8.76	536398	11.30	354267	16.24	234156	18.74
ZZZZZZ	265813	5.18	928815	6.41	425423	8.76	526875	11.30	318922	16.23	196810	18.74
ZZZZZZ	262246	5.18	913022	6.41	433316	8.76	541441	11.30	343478	16.23	221373	18.74
ZZZZZZ	272033	5.18	935376	6.41	432929	8.77	527313	11.30	325697	16.23	205386	18.74
ZZZZZZ	251938	5.19	890257	6.41	412798	8.76	513119	11.30	325568	16.23	215080	18.74

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.
(c) Recovery within control limits in MS/MSD.

Semivolatile Internal Standard Area Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW530-CC518	**Injection Date:**	04/25/02
Lab File ID:	W009578.D	**Injection Time:**	15:51
Instrument ID:	GCMSW	**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	274442	5.18	973388	6.41	479331	8.76	618179	11.29	361231	16.23	246631	18.73
Upper Limit [a]	548884	5.68	1946776	6.91	958662	9.26	1236358	11.79	722462	16.73	493262	19.23
Lower Limit [b]	137221	4.68	486694	5.91	239666	8.26	309090	10.79	180616	15.73	123316	18.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS2	256527	5.18	915716	6.40	440962	8.76	569383	11.29	344512	16.23	232014	18.73
OP4993-MB2	261751	5.18	944140	6.40	466170	8.76	603552	11.29	411404	16.22	263246	18.73
F12899-2	277639	5.18	989197	6.40	482294	8.76	627621	11.29	406800	16.22	260294	18.72
ZZZZZZ	264410	5.18	914081	6.40	430581	8.76	528304	11.30	315850	16.24	197868	18.74
ZZZZZZ	277440	5.18	937870	6.40	429250	8.77	527525	11.31	310557	16.23	186675	18.73
ZZZZZZ	255811	5.18	902179	6.40	432850	8.76	540247	11.29	355128	16.22	217765	18.73
ZZZZZZ	286105	5.18	1021891	6.40	511319	8.75	655606	11.29	430458	16.22	259262	18.73
ZZZZZZ	276609	5.18	968260	6.40	478175	8.75	610362	11.29	398308	16.23	237566	18.73
ZZZZZZ	263271	5.18	927923	6.40	461325	8.76	586366	11.29	367910	16.22	225781	18.73
ZZZZZZ	268454	5.18	888830	6.41	409801	8.76	491297	11.30	286971	16.24	173933	18.74
ZZZZZZ	280659	5.18	1023157	6.40	502917	8.76	656347	11.29	416263	16.23	254451	18.73
ZZZZZZ	272450	5.18	972538	6.40	468699	8.76	580984	11.29	363220	16.22	224168	18.73
ZZZZZZ	264656	5.18	925670	6.40	437250	8.76	535550	11.29	338159	16.22	204720	18.72
ZZZZZZ	278789	5.18	989729	6.40	480080	8.76	582475	11.29	382863	16.22	235788	18.73
ZZZZZZ	273366	5.18	970291	6.40	471939	8.76	614266	11.29	391140	16.22	243650	18.73
ZZZZZZ	261072	5.18	935631	6.40	458238	8.75	581518	11.29	380457	16.22	234104	18.73
ZZZZZZ	279618	5.18	993353	6.40	492310	8.76	636523	11.29	420886	16.22	250046	18.73
ZZZZZZ	288451	5.18	1026709	6.40	501030	8.75	641121	11.29	399251	16.22	243398	18.72
ZZZZZZ	274877	5.18	979167	6.40	474530	8.76	613383	11.29	396529	16.22	239959	18.73
OP4993-MB	249019	5.18	889322	6.40	430803	8.76	548354	11.29	352790	16.22	213060	18.72
ZZZZZZ	281878	5.18	1016784	6.40	497588	8.76	643368	11.29	404184	16.22	241597	18.73

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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12883-1	W009527.D	36.0	25.0	94.0	62.0	67.0	93.0
OP4993-BS	W009525.D	28.0	22.0	51.0	86.0	87.0	98.0
OP4993-BS	W009557.D	30.0	25.0	56.0	98.0	96.0	106.0
OP4993-MB	W009526.D	46.0	31.0	77.0	69.0	68.0	88.0
OP4993-MB	W009558.D	46.0	32.0	79.0	70.0	66.0	84.0
OP4993-MB	W009600.D	47.0	32.0	81.0	72.0	70.0	94.0
OP4993-MS	W009559.D	79.0	62.0	97.0	95.0	94.0	98.0
OP4993-MSD	W009560.D	74.0	61.0	89.0	88.0	87.0	90.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

Initial Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW518-ICC518
Lab FileID: W009337.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:51:43 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------ISTD----------							
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22

Initial Calibration Summary

Job Number: F12883 **Sample:** SW518-ICC518
Account: ITTNKNOX IT Corporation **Lab FileID:** W009337.D
Project: Plum Brook Ordnance WKS.

45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.5

(#) = Out of Range

8270C.M Thu Apr 11 16:38:38 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: SW527-CC518
Lab FileID: W009520.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01
44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

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(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009334.D  8270C.M          Wed Apr 24 13:53:45 2002   MSBNA01
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Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW528-CC518
Lab FileID: W009556.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042402\W009556.D Vial: 2
Acq On : 24 Apr 2002 3:27 pm Operator: marke
Sample : cc518-75 Inst : MSBNA01
Misc : op5023,sw528,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.445	0.474	-6.5	88	0.00
3		N-nitrosodimethylamine	0.558	0.542	2.9	75	-0.08
4		Pyridine	1.008	1.044	-3.6	85	-0.07
5		Benzaldehyde	0.502	0.489	2.6	96	-0.01
6		Aniline	1.505	1.410	6.3	85	-0.01
7	S	2-Fluorophenol	1.207	1.175	2.7	88	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.270	-0.3	87	-0.01
9	S	Phenol-d5	1.457	1.382	5.1	88	0.00
10	C	Phenol	1.599	1.524	4.7	89	-0.01
11		2-Chlorophenol	1.394	1.338	4.0	85	-0.01
12		1,3-Dichlorobenzene	1.523	1.471	3.4	87	0.00
13	C	1,4-Dichlorobenzene	1.484	1.450	2.3	88	0.00
14		1,2-Dichlorobenzene	1.387	1.367	1.4	88	-0.01
15		Benzyl alcohol	0.859	0.830	3.4	85	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.782	0.9	91	-0.01
17		2-Methylphenol	1.143	1.082	5.3	85	0.00
18		Acetophenone	1.539	1.385	10.0	84	0.00
19		Hexachloroethane	0.548	0.538	1.8	88	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.706	10.9	82	-0.01
21		3&4-Methylphenol	1.094	0.989	9.6	85	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
23	S	Nitrobenzene-d5	0.369	0.361	2.2	85	0.00
24		Nitrobenzene	0.351	0.346	1.4	86	-0.01
25		Isophorone	0.640	0.594	7.2	82	-0.01
26	C	2-Nitrophenol	0.212	0.207	2.4	86	0.00
27		2,4-Dimethylphenol	0.344	0.322	6.4	83	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.363	6.4	85	0.00
29		Benzoic Acid	0.247	0.256	-3.6	82	0.02
30	C	2,4-Dichlorophenol	0.304	0.295	3.0	86	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	85	0.00
32		Naphthalene	0.959	0.918	4.3	85	0.00
33		4-Chloroaniline	0.350	0.321	8.3	84	0.00
34		2,6-Dichlorophenol	0.288	0.271	5.9	85	0.00
35	C	Hexachlorobutadiene	0.179	0.169	5.6	84	0.00
36		Caprolactam	0.194	0.180	7.2	80	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.258	6.5	82	0.00
38		2-Methylnaphthalene	0.647	0.614	5.1	83	0.00
39		1-Methylnaphthalene	0.614	0.575	6.4	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.257	6.5	85	0.00

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW528-CC518
Lab FileID: W009556.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.01
42	P	Hexachlorocyclopentadiene	0.282	0.285	-1.1	77	-0.02
43	C	2,4,6-Trichlorophenol	0.405	0.401	1.0	81	-0.02
44		2,4,5-Trichlorophenol	0.423	0.419	0.9	81	-0.02
45	S	2-Fluorobiphenyl	1.362	1.342	1.5	82	-0.02
46		1,1'-Biphenyl	1.455	1.439	1.1	82	-0.02
47		2-Chloronaphthalene	1.182	1.193	-0.9	84	-0.02
48		2-Nitroaniline	0.357	0.360	-0.8	81	-0.02
49		Acenaphthylene	1.551	1.527	1.5	80	-0.02
50		Dimethylphthalate	1.254	1.199	4.4	78	-0.02
51		2,6-Dinitrotoluene	0.292	0.287	1.7	78	-0.01
52	C	Acenaphthene	1.083	1.056	2.5	81	-0.02
53		3-Nitroaniline	0.319	0.308	3.4	76	-0.01
54	P	2,4-Dinitrophenol	0.167	0.152	9.0	70	-0.01
55		Dibenzofuran	1.534	1.495	2.5	83	-0.01
56		2,4-Dinitrotoluene	0.348	0.340	2.3	81	-0.01
57	P	4-Nitrophenol	0.142	0.130	8.5	73	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.266	5.3	77	0.00
59		Fluorene	1.173	1.141	2.7	81	0.00
60		4-Chlorophenyl-phenylether	0.544	0.528	2.9	82	0.00
61		Diethylphthalate	1.121	1.031	8.0	74	0.00
62		4-Nitroaniline	0.281	0.279	0.7	80	-0.02
63	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
64		4,6-Dinitro-2-methylphenol	0.174	0.164	5.7	73	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.612	1.6	78	-0.02
66		1,2-Diphenylhydrazine	0.886	0.866	2.3	78	-0.03
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	77	-0.03
68		4-Bromophenyl-phenylether	0.213	0.210	1.4	78	-0.02
69		Hexachlorobenzene	0.213	0.205	3.8	78	-0.02
70		Atrazine	0.095	0.073	23.2#	63	-0.01
71	C	Pentachlorophenol	0.131	0.114	13.0	66	-0.01
72		Phenanthrene	1.155	1.113	3.6	78	-0.01
73		Anthracene	1.146	1.094	4.5	77	-0.02
74		Carbazole	1.095	1.049	4.2	78	-0.01
75		Di-n-butylphthalate	1.238	1.121	9.5	72	0.00
76	C	Fluoranthene	1.088	1.006	7.5	76	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	80	-0.02
78		Benzidine	0.192	0.132	31.3#	69	-0.03
79		Pyrene	1.874	1.825	2.6	76	-0.04
80	S	Terphenyl-d14	1.108	1.058	4.5	74	-0.03
81		Butylbenzylphthalate	0.761	0.714	6.2	72	-0.01
82		3,3'-Dichlorobenzidine	0.346	0.354	-2.3	85	-0.01
83		Benzo[a]anthracene	1.303	1.282	1.6	77	-0.01
84		Chrysene	1.276	1.240	2.8	76	-0.02
85		bis(2-Ethylhexyl)phthalate	0.948	0.849	10.4	68	0.00
86	I	Perylene-d12	1.000	1.000	0.0	76	-0.02
87	C	Di-n-octylphthalate	2.177	1.994	8.4	67	-0.02
88		Benzo[b]fluoranthene	1.460	1.415	3.1	73	-0.02
89		Benzo[k]fluoranthene	1.498	1.439	3.9	76	-0.03
90	C	Benzo[a]pyrene	1.267	1.263	0.3	76	-0.02
91		Indeno[1,2,3-cd]pyrene	0.945	0.995	-5.3	81	0.00
92		Dibenz[a,h]anthracene	1.019	1.074	-5.4	80	-0.01
93		Benzo[g,h,i]perylene	1.028	1.062	-3.3	81	-0.02

Average % D = 4.8

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW528-CC518
Lab FileID: W009556.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009337.D  8270C.M          Thu Apr 25 09:30:16 2002   MSBNA01
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-CC518
Lab FileID: W009578.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042502A\W009578.D Vial: 2
Acq On : 25 Apr 2002 3:51 pm Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op5034,sw530,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	-0.02
2		1,4-Dioxane	0.445	0.473	-6.3	130	0.00
3		N-nitrosodimethylamine	0.558	0.493	11.6	120	-0.08
4		Pyridine	1.008	0.997	1.1	125	-0.07
5		Benzaldehyde	0.502	0.595	-18.5	139	-0.02
6		Aniline	1.505	1.508	-0.2	118	-0.02
7	S	2-Fluorophenol	1.207	1.215	-0.7	122	-0.03
8		bis(2-Chloroethyl)ether	1.266	1.297	-2.4	125	-0.02
9	S	Phenol-d5	1.457	1.442	1.0	121	-0.02
10	C	Phenol	1.599	1.595	0.3	120	-0.02
11		2-Chlorophenol	1.394	1.369	1.8	120	-0.02
12		1,3-Dichlorobenzene	1.523	1.520	0.2	125	-0.02
13	C	1,4-Dichlorobenzene	1.484	1.487	-0.2	123	-0.02
14		1,2-Dichlorobenzene	1.387	1.404	-1.2	122	-0.02
15		Benzyl alcohol	0.859	0.858	0.1	123	-0.02
16		bis(2-chloroisopropyl)ether	2.806	2.938	-4.7	126	-0.02
17		2-Methylphenol	1.143	1.139	0.3	125	-0.02
18		Acetophenone	1.539	1.479	3.9	119	-0.02
19		Hexachloroethane	0.548	0.543	0.9	120	-0.01
20	P	N-Nitroso-di-n-propylamine	0.792	0.757	4.4	119	-0.02
21		3&4-Methylphenol	1.094	1.060	3.1	120	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.01
23	S	Nitrobenzene-d5	0.369	0.369	0.0	122	-0.02
24		Nitrobenzene	0.351	0.354	-0.9	124	-0.02
25		Isophorone	0.640	0.633	1.1	122	-0.02
26	C	2-Nitrophenol	0.212	0.214	-0.9	124	-0.02
27		2,4-Dimethylphenol	0.344	0.341	0.9	121	-0.02
28		bis(2-Chloroethoxy)methane	0.388	0.382	1.5	118	-0.02
29		Benzoic Acid	0.247	0.261	-5.7	132	0.00
30	C	2,4-Dichlorophenol	0.304	0.309	-1.6	121	-0.02
31		1,2,4-Trichlorobenzene	0.306	0.309	-1.0	124	-0.02
32		Naphthalene	0.959	0.956	0.3	123	-0.02
33		4-Chloroaniline	0.350	0.356	-1.7	124	-0.01
34		2,6-Dichlorophenol	0.288	0.287	0.3	122	-0.01
35	C	Hexachlorobutadiene	0.179	0.175	2.2	119	-0.01
36		Caprolactam	0.194	0.203	-4.6	130	-0.03
37	C	4-Chloro-3-methylphenol	0.276	0.278	-0.7	124	-0.01
38		2-Methylnaphthalene	0.647	0.646	0.2	123	0.00
39		1-Methylnaphthalene	0.614	0.621	-1.1	126	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.275	0.275	0.0	122	-0.01

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-CC518
Lab FileID: W009578.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.02
42	P	Hexachlorocyclopentadiene	0.282	0.268	5.0	113	-0.03
43	C	2,4,6-Trichlorophenol	0.405	0.407	-0.5	127	-0.03
44		2,4,5-Trichlorophenol	0.423	0.423	0.0	121	-0.03
45	S	2-Fluorobiphenyl	1.362	1.359	0.2	124	-0.03
46		1,1'-Biphenyl	1.455	1.444	0.8	123	-0.03
47		2-Chloronaphthalene	1.182	1.186	-0.3	123	-0.03
48		2-Nitroaniline	0.357	0.363	-1.7	127	-0.03
49		Acenaphthylene	1.551	1.577	-1.7	128	-0.03
50		Dimethylphthalate	1.254	1.273	-1.5	128	-0.03
51		2,6-Dinitrotoluene	0.292	0.294	-0.7	126	-0.02
52	C	Acenaphthene	1.083	1.079	0.4	124	-0.03
53		3-Nitroaniline	0.319	0.334	-4.7	129	-0.02
54	P	2,4-Dinitrophenol	0.167	0.165	1.2	129	-0.02
55		Dibenzofuran	1.534	1.521	0.8	125	-0.02
56		2,4-Dinitrotoluene	0.348	0.349	-0.3	124	-0.02
57	P	4-Nitrophenol	0.142	0.138	2.8	119	-0.03
58		2,3,4,6-Tetrachlorophenol	0.281	0.280	0.4	121	-0.02
59		Fluorene	1.173	1.194	-1.8	126	-0.02
60		4-Chlorophenyl-phenylether	0.544	0.557	-2.4	127	-0.01
61		Diethylphthalate	1.121	1.123	-0.2	126	-0.02
62		4-Nitroaniline	0.281	0.303	-7.8	129	-0.03
63	I	Phenanthrene-d10	1.000	1.000	0.0	129	-0.02
64		4,6-Dinitro-2-methylphenol	0.174	0.169	2.9	126	-0.04
65	C	n-Nitrosodiphenylamine	0.622	0.624	-0.3	129	-0.03
66		1,2-Diphenylhydrazine	0.886	0.845	4.6	122	-0.04
67	S	2,4,6-Tribromophenol	0.104	0.102	1.9	124	-0.04
68		4-Bromophenyl-phenylether	0.213	0.207	2.8	122	-0.03
69		Hexachlorobenzene	0.213	0.207	2.8	125	-0.03
70		Atrazine	0.095	0.084	11.6	112	-0.02
71	C	Pentachlorophenol	0.131	0.121	7.6	109	-0.03
72		Phenanthrene	1.155	1.139	1.4	127	-0.03
73		Anthracene	1.146	1.115	2.7	124	-0.03
74		Carbazole	1.095	1.070	2.3	121	-0.02
75		Di-n-butylphthalate	1.238	1.205	2.7	119	0.00
76	C	Fluoranthene	1.088	1.054	3.1	119	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	120	-0.03
78		Benzidine	0.192	0.237	-23.4#	136	-0.04
79		Pyrene	1.874	1.851	1.2	123	-0.05
80	S	Terphenyl-d14	1.108	1.099	0.8	122	-0.04
81		Butylbenzylphthalate	0.761	0.769	-1.1	121	-0.02
82		3,3'-Dichlorobenzidine	0.346	0.373	-7.8	128	-0.03
83		Benzo[a]anthracene	1.303	1.315	-0.9	121	-0.03
84		Chrysene	1.276	1.290	-1.1	123	-0.04
85		bis(2-Ethylhexyl)phthalate	0.948	0.977	-3.1	123	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	119	-0.03
87	C	Di-n-octylphthalate	2.177	2.188	-0.5	119	-0.03
88		Benzo[b]fluoranthene	1.460	1.433	1.8	119	-0.04
89		Benzo[k]fluoranthene	1.498	1.454	2.9	117	-0.04
90	C	Benzo[a]pyrene	1.267	1.263	0.3	118	-0.03
91		Indeno[1,2,3-cd]pyrene	0.945	0.916	3.1	109	-0.03
92		Dibenz[a,h]anthracene	1.019	1.024	-0.5	115	-0.03
93		Benzo[g,h,i]perylene	1.028	1.004	2.3	115	-0.04

Average % D = 2.5

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-CC518
Lab FileID: W009578.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009334.D  8270C.M          Fri Apr 26 14:17:17 2002   MSBNA01
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GC Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-BS	GG003013.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.5	100	80-120
121-82-4	RDX	2.5	2.4	96	80-120
99-65-0	1,3-Dinitrobenzene	2.5	2.4	96	80-120
606-20-2	2,6-Dinitrotoluene	2.5	3.0	120	80-120
121-14-2	2,4-Dinitrotoluene	2.5	2.3	92	80-120
35572-78-2	2-amino-4,6-Dinitrotoluene	2.5	2.6	104	80-120
19406-51-0	4-amino-2,6-Dinitrotoluene	2.5	2.6	104	80-120
98-95-3	Nitrobenzene	2.5	2.1	84	80-120
88-72-2	o-Nitrotoluene	2.5	2.2	88	74-120
99-08-1	m-Nitrotoluene	2.5	2.2	88	76-120
99-99-0	p-Nitrotoluene	2.5	2.3	92	76-120
479-45-8	Tetryl	2.5	2.8	112	74-120
99-35-4	1,3,5-Trinitrobenzene	2.5	2.5	100	80-120
118-96-7	2,4,6-Trinitrotoluene	2.5	2.4	96	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	106%	58-131%

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-BS	GG003074.D	1	04/26/02	MRE	04/24/02	OP5028	GGG156

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	103%	58-131%

Blank Spike Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-BS	GG003121.D	1	04/30/02	MRE	04/24/02	OP5028	GGG158

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	94%	58-131%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MB	GG003014.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	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	81%	58-131%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MB	GG003046.D	1	04/23/02	MRE	04/16/02	OP4980	GGG154

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	ug/l	
98-95-3	Nitrobenzene	ND	0.20	ug/l	
99-08-1	m-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	89%	58-131%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-MB	GG003075.D	1	04/26/02	MRE	04/24/02	OP5028	GGG156

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	74%	58-131%

Method Blank Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-MB	GG003122.D	1	04/30/02	MRE	04/24/02	OP5028	GGG158

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	77%	58-131%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MS	GG003018.D	10	04/22/02	MRE	04/16/02	OP4980	GGG153
OP4980-MSD [a]	GG003019.D	10	04/22/02	MRE	04/16/02	OP4980	GGG153
F12898-1 [b]	GG003016.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153
F12898-1	GG003044.D	1	04/23/02	MRE	04/16/02	OP4980	GGG154

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	F12898-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
121-82-4	RDX	ND		5	5.9	118	6.4	128*	8	79-120/20
99-65-0	1,3-Dinitrobenzene	ND		5	5.1	102	4.8	96	6	78-125/20
606-20-2	2,6-Dinitrotoluene	1.4 [c]		5	7.7	126*	8.0	132*	4	80-120/20
121-14-2	2,4-Dinitrotoluene	4.6		5	9.3	94	9.2	92	1	80-120/20
35572-78-2	2-amino-4,6-Dinitrotoluene	23.0 [e]		5	30.5	150* [d]	29.7	134* [d]	3	80-120/20
19406-51-0	4-amino-2,6-Dinitrotoluene	17.1 [e]		5	24.3	144* [d]	23.6	130* [d]	3	80-120/22
98-95-3	Nitrobenzene	ND		5	4.7	94	4.3	86	9	80-120/22
88-72-2	o-Nitrotoluene	ND		5	4.9	98	5.6	112	13	72-120/20
99-08-1	m-Nitrotoluene	ND		5	4.2	84	4.2	84	0	72-120/20
99-99-0	p-Nitrotoluene	ND		5	5.1	102	5.2	104	2	74-120/20
479-45-8	Tetryl	ND		5	6.0	120	5.4	108	11	52-120/25
99-35-4	1,3,5-Trinitrobenzene	ND		5	3.8	76*	3.9	78*	3	80-120/20
118-96-7	2,4,6-Trinitrotoluene	59.8 [e]		5	66.0	124* [d]	66.4	132* [d]	1	66-120/20

CAS No.	Surrogate Recoveries	MS	MSD	F12898-1	F12898-1	Limits
610-39-9	3,4-Dinitrotoluene	85% [g]	88% [g]	0%* [f]	107%	58-131%

(a) HMX recovery not reported due to matrix interference.
(b) All hits confirmed by reanalysis on a dissimilar column.
(c) Result is from Run #2.
(d) Outside control limits due to high level in sample relative to spike amount.
(e) Result is from Run #3.
(f) Not calculated due to matrix interference.
(g) Recoveries reported from confirmation run due to matrix interference on primary column.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5028-MS	GG003165.D	2	05/01/02	MRE	04/24/02	OP5028	GGG158
OP5028-MSD	GG003166.D	2	05/01/02	MRE	04/24/02	OP5028	GGG158
N12566-4 [a]	GG003124.D	1	04/30/02	MRE	04/24/02	OP5028	GGG158
N12566-4 [a]	GG003164.D	2	05/01/02	MRE	04/24/02	OP5028	GGG158

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12883-1

CAS No.	Compound	N12566-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	N12566-4	N12566-4	Limits
610-39-9	3,4-Dinitrotoluene	92%	94%	95%	95%	58-131%

(a) All hits confirmed by reanalysis on a dissimilar column.

Semivolatile Surrogate Recovery Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F12883-1	GG003077.D	24.0*
F12883-1	GG003015.D	26.0 [b]
OP4980-BS	GG003013.D	106.0
OP4980-MB	GG003014.D	81.0
OP4980-MB	GG003046.D	89.0
OP4980-MS	GG003018.D	85.0 [c]
OP4980-MSD	GG003019.D	88.0 [c]
OP5028-BS	GG003074.D	103.0
OP5028-BS	GG003121.D	94.0
OP5028-MB	GG003075.D	74.0
OP5028-MB	GG003122.D	77.0
OP5028-MS	GG003165.D	92.0
OP5028-MSD	GG003166.D	94.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	58-131%

(a) Recovery from GC signal #1
(b) Surrogates outside of control limits, all values should be considered estimated.
(c) Recoveries reported from confirmation run due to matrix interference on primary column.

GC Surrogate Retention Time Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG153-CC150	**Injection Date:**	04/22/02
Lab File ID:	GG003011.D	**Injection Time:**	10:25
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	13.82

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP4980-BS	GG003013.D	04/22/02	11:21	13.85
OP4980-MB	GG003014.D	04/22/02	11:49	13.83
F12883-1	GG003015.D	04/22/02	12:17	13.82
F12898-1	GG003016.D	04/22/02	12:45	0.00
F12898-1	GG003017.D	04/22/02	13:20	0.00
OP4980-MS	GG003018.D	04/22/02	13:48	0.00
OP4980-MSD	GG003019.D	04/22/02	14:16	0.00

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG156-CC150	**Injection Date:**	04/26/02
Lab File ID:	GG003073.D	**Injection Time:**	11:42
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	14.03	14.03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP5028-BS	GG003074.D	04/26/02	12:14	14.05	
OP5028-MB	GG003075.D	04/26/02	12:46	14.02	
ZZZZZZ	GG003076.D	04/26/02	13:18	14.03	
F12883-1	GG003077.D	04/26/02	13:50	14.02	
GGG156-ECC150	GG003079.D	04/26/02	15:52	14.04	14.04

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG154-CC149	**Injection Date:**	04/23/02
Lab File ID:	GG003042.D	**Injection Time:**	09:57
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	16.65

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
F12898-1	GG003044.D	04/23/02	11:01	16.64
OP4980-MB	GG003046.D	04/23/02	12:05	16.65

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG158-CC157	**Injection Date:**	04/30/02
Lab File ID:	GG003120.D	**Injection Time:**	12:07
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	15.49

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP5028-BS	GG003121.D	04/30/02	12:39	15.52
OP5028-MB	GG003122.D	04/30/02	13:11	15.53
ZZZZZZ	GG003123.D	04/30/02	13:43	15.52
N12566-4	GG003124.D	04/30/02	14:15	15.51
ZZZZZZ	GG003127.D	04/30/02	16:05	15.51

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG158-CC157	**Injection Date:**	05/01/02
Lab File ID:	GG003162.D	**Injection Time:**	11:39
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	15.50	15.50

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
N12566-4	GG003164.D	05/01/02	12:43	15.49	
OP5028-MS	GG003165.D	05/01/02	13:15	15.48	
OP5028-MSD	GG003166.D	05/01/02	13:47	15.50	
ZZZZZZ	GG003167.D	05/01/02	14:19	15.49	
GGG158-ECC157	GG003168.D	05/01/02	14:51	15.49	15.49

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: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-ICC150
Lab FileID: GG002910.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Apr 17 09:04:04 2002
Response via : Initial Calibration

Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	3.208	3.005	2.931	2.974	2.912	2.973	3.000	E3	3.57
2)		RDX	4.439	3.889	3.862	3.700	3.628	3.673	3.865	E3	7.77
3)		1,3,5-Trinitrobenze	8.300	7.994	7.858	7.651	7.723	7.922	7.908	E3	2.91
4)		1,3-Dinitrobenzene	1.145	1.080	1.070	1.040	1.052	1.062	1.075	E4	3.47
5)		Tetryl	6.230	6.384	6.202	5.818	5.903	5.939	6.080	E3	3.68
6)		Nitrobenzene	7.310	6.837	6.709	6.491	6.645	6.672	6.777	E3	4.19
7)	S	3,4-Dinitrotoluene	5.007	5.095	4.865	4.751	4.894	4.872	4.914	E3	2.45
8)		2,4,6-Trinitrotolue	7.446	7.453	7.161	7.004	7.126	7.178	7.228	E3	2.52
9)		4-Amino-2,6-Dinitro	4.860	5.051	4.779	4.688	4.789	4.778	4.824	E3	2.57
10)		2-Amino-4,6-Dinitro	6.456	6.662	6.333	6.240	6.312	6.347	6.392	E3	2.34
11)		2,6-Dinitrotoluene	5.076	5.080	5.001	5.037	5.045	4.952	5.032	E3	0.97
12)		2,4-Dinitrotoluene	9.639	9.900	9.193	9.189	9.059	9.185	9.361	E3	3.54
13)		o-Nitrotoluene	4.600	4.138	4.187	3.985	4.002	4.105	4.170	E3	5.40
14)		p-Nitrotoluene	3.657	3.491	3.566	3.367	3.352	3.486	3.486	E3	3.34
15)		m-Nitrotoluene	4.705	4.511	4.564	4.338	4.389	4.484	4.499	E3	2.90

Signal #2 Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	9.471	9.091	8.622	8.402	8.401	8.634	8.770	E3	4.86
2)		RDX		7.225	6.578	6.341	6.356	6.336	6.568	E3	5.81
3)		1,3,5-Trinitrobenze	1.666	1.599	1.599	1.545	1.569	1.597	1.596	E4	2.54
4)		1,3-Dinitrobenzene	1.379	1.296	1.283	1.246	1.261	1.274	1.290	E4	3.64
5)		Tetryl	1.101	1.115	1.088	1.033	1.042	1.056	1.073	E4	3.11
6)		Nitrobenzene	3.341	2.878	2.860	2.744	2.824	2.831	2.913	E3	7.37
7)	S	3,4-Dinitrotoluene	6.912	6.805	6.674	6.507	6.616	6.651	6.694	E3	2.15
8)		2,4,6-Trinitrotolue	1.117	1.083	1.053	1.032	1.043	1.058	1.064	E4	2.91
9)		4-Amino-2,6-Dinitro	1.377	1.335	1.290	1.271	1.279	1.296	1.308	E4	3.10
10)		2-Amino-4,6-Dinitro	1.138	1.090	1.051	1.039	1.043	1.058	1.070	E4	3.55
11)		2,6-Dinitrotoluene	7.440	7.508	7.249	7.070	7.170	7.207	7.274	E3	2.30
12)		2,4-Dinitrotoluene	9.096	8.104	7.952	7.787	7.877	7.949	8.128	E3	5.98
13)		o-Nitrotoluene	4.788	4.444	4.373	4.281	4.297	4.375	4.426	E3	4.21
14)		p-Nitrotoluene	7.137	6.933	6.940	6.744	6.754	6.918	6.904	E3	2.10
15)		m-Nitrotoluene	7.076	6.673	6.667	6.465	6.510	6.618	6.668	E3	3.25

Average % RSD = 3.6

(#) = Out of Range

8330_EX.M Wed Apr 17 15:20:31 2002

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003011.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0422EXP\GG003011.D\DAD1B.CH Vial: 1
Signal #2 : G:\HPCHEM\1\DATA\0422EXP\GG003011.D\DAD1A.CH
Acq On : 22-Apr-2002, 10:25:23 Operator: MIKEE
Sample : CC150-200 Inst : G1315B
Misc : op4980,ggg153,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Mon Apr 22 13:55:06 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	200.000	197.063	1.5	101	0.00
2		RDX	200.000	198.568	0.7	99	0.00
3		1,3,5-Trinitrobenzene	200.000	193.277	3.4	97	0.00
4		1,3-Dinitrobenzene	200.000	192.686	3.7	97	0.00
5		Tetryl	200.000	191.628	4.2	94	0.00
6		Nitrobenzene	200.000	187.518	6.2	95	0.00
7	S	3,4-Dinitrotoluene	200.000	207.079	-3.5	105	0.00
8		2,4,6-Trinitrotoluene	200.000	186.851	6.6	94	0.00
9		4-Amino-2,6-Dinitrotoluene	200.000	195.227	2.4	99	0.00
10		2-Amino-4,6-Dinitrotoluene	200.000	191.548	4.2	97	0.00
11		2,6-Dinitrotoluene	200.000	223.542	-11.8	112	0.00
12		2,4-Dinitrotoluene	200.000	182.296	8.9	93	0.00
13		o-Nitrotoluene	200.000	191.621	4.2	95	0.00
14		p-Nitrotoluene	200.000	187.930	6.0	92	0.00
15		m-Nitrotoluene	200.000	191.715	4.1	94	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	194.427	2.8	99	0.00
2		RDX	200.000	201.977	-1.0	101	0.00
3		1,3,5-Trinitrobenzene	200.000	192.163	3.9	96	0.00
4		1,3-Dinitrobenzene	200.000	192.760	3.6	97	0.00
5		Tetryl	200.000	188.730	5.6	93	0.00
6		Nitrobenzene	200.000	187.723	6.1	96	0.00
7	S	3,4-Dinitrotoluene	200.000	209.089	-4.5	105	0.00
8		2,4,6-Trinitrotoluene	200.000	188.377	5.8	95	0.00
9		4-Amino-2,6-Dinitrotoluen	200.000	194.834	2.6	99	0.00
10		2-Amino-4,6-Dinitrotoluen	200.000	190.395	4.8	97	0.00
11		2,6-Dinitrotoluene	200.000	209.023	-4.5	105	0.00
12		2,4-Dinitrotoluene	200.000	177.719	11.1	91	0.00
13		o-Nitrotoluene	200.000	193.101	3.4	98	0.00
14		p-Nitrotoluene	200.000	193.748	3.1	96	0.00
15		m-Nitrotoluene	200.000	193.448	3.3	97	0.00

Average % D = 4.6

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003011.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG002909.D 8330_EX.M        Tue Apr 23 09:13:21 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003021.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0422EXP\GG003021.D\DAD1B.CH Vial: 11
Signal #2 : G:\HPCHEM\1\DATA\0422EXP\GG003021.D\DAD1A.CH
Acq On : 22-Apr-2002, 15:12:21 Operator: MIKEE
Sample : CC150-300 Inst : G1315B
Misc : op4980,ggg153,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 23 09:16:54 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	291.930	2.7	98	0.00
2		RDX	300.000	287.801	4.1	100	0.00
3		1,3,5-Trinitrobenzene	300.000	293.863	2.0	101	0.00
4		1,3-Dinitrobenzene	300.000	296.871	1.0	102	0.00
5		Tetryl	300.000	311.113	-3.7	108	0.00
6		Nitrobenzene	300.000	281.336	6.2	98	0.00
7	S	3,4-Dinitrotoluene	300.000	319.498	-6.5	110	0.00
8		2,4,6-Trinitrotoluene	300.000	286.975	4.3	99	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	299.993	0.0	103	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	294.523	1.8	101	0.00
11		2,6-Dinitrotoluene	300.000	311.302	-3.8	104	0.02
12		2,4-Dinitrotoluene	300.000	291.454	2.8	99	0.00
13		o-Nitrotoluene	300.000	291.071	3.0	102	0.00
14		p-Nitrotoluene	300.000	291.753	2.7	101	0.00
15		m-Nitrotoluene	300.000	297.376	0.9	103	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	294.721	1.8	103	0.00
2		RDX	300.000	295.249	1.6	102	0.00
3		1,3,5-Trinitrobenzene	300.000	295.197	1.6	102	0.00
4		1,3-Dinitrobenzene	300.000	295.464	1.5	102	0.00
5		Tetryl	300.000	299.922	0.0	104	0.00
6		Nitrobenzene	300.000	260.887	13.0	92	0.00
7	S	3,4-Dinitrotoluene	300.000	315.848	-5.3	108	0.00
8		2,4,6-Trinitrotoluene	300.000	286.325	4.6	98	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	296.525	1.2	102	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	290.193	3.3	100	0.00
11		2,6-Dinitrotoluene	300.000	315.756	-5.3	108	0.00
12		2,4-Dinitrotoluene	300.000	269.174	10.3	94	0.00
13		o-Nitrotoluene	300.000	295.578	1.5	102	0.00
14		p-Nitrotoluene	300.000	297.451	0.8	102	0.00
15		m-Nitrotoluene	300.000	297.243	0.9	102	0.00

Average % D = 3.3

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003021.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG002910.D 8330_EX.M        Tue Apr 23 09:34:08 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-CC150
Lab FileID: GG003073.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0426EXP\GG003073.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0426EXP\GG003073.D\DAD1A.CH
Acq On : 26-Apr-2002, 11:42:38 Operator: MIKEE
Sample : CC150-200 Inst : G1315B
Misc : op5028,ggg156,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 26 13:15:30 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	200.000	196.257	1.9	100	0.00
2		RDX	200.000	191.364	4.3	96	0.00
3		1,3,5-Trinitrobenzene	200.000	193.790	3.1	98	0.00
4		1,3-Dinitrobenzene	200.000	194.720	2.6	98	0.00
5		Tetryl	200.000	196.781	1.6	96	0.00
6		Nitrobenzene	200.000	181.042	9.5	91	0.00
7	S	3,4-Dinitrotoluene	200.000	202.648	-1.3	102	0.00
8		2,4,6-Trinitrotoluene	200.000	188.909	5.5	95	0.00
9		4-Amino-2,6-Dinitrotoluene	200.000	193.843	3.1	98	0.00
10		2-Amino-4,6-Dinitrotoluene	200.000	192.984	3.5	97	0.00
11		2,6-Dinitrotoluene	200.000	194.257	2.9	98	0.02
12		2,4-Dinitrotoluene	200.000	193.713	3.1	99	0.00
13		o-Nitrotoluene	200.000	182.722	8.6	91	0.00
14		p-Nitrotoluene	200.000	183.981	8.0	90	0.01
15		m-Nitrotoluene	200.000	184.310	7.8	91	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	196.673	1.7	100	0.00
2		RDX	200.000	212.093	-6.0	106	0.00
3		1,3,5-Trinitrobenzene	200.000	192.351	3.8	96	0.00
4		1,3-Dinitrobenzene	200.000	194.449	2.8	98	0.00
5		Tetryl	200.000	196.397	1.8	97	0.00
6		Nitrobenzene	200.000	161.174	19.4#	82	0.00
7	S	3,4-Dinitrotoluene	200.000	200.497	-0.2	101	0.00
8		2,4,6-Trinitrotoluene	200.000	188.130	5.9	95	0.00
9		4-Amino-2,6-Dinitrotoluen	200.000	191.745	4.1	97	0.00
10		2-Amino-4,6-Dinitrotoluen	200.000	190.885	4.6	97	0.00
11		2,6-Dinitrotoluene	200.000	196.657	1.7	99	0.00
12		2,4-Dinitrotoluene	200.000	188.420	5.8	96	0.00
13		o-Nitrotoluene	200.000	185.556	7.2	94	-0.01
14		p-Nitrotoluene	200.000	186.716	6.6	93	0.00
15		m-Nitrotoluene	200.000	184.916	7.5	92	0.00

Average % D = 4.9

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-CC150
Lab FileID: GG003073.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG002909.D 8330_EX.M        Fri Apr 26 15:38:30 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-ECC150
Lab FileID: GG003079.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0426EXP\GG003079.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0426EXP\GG003079.D\DAD1A.CH
Acq On : 26-Apr-2002, 15:52:32 Operator: MIKEE
Sample : ECC150-300 Inst : G1315B
Misc : op5028,ggg156,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Apr 26 13:15:30 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	300.222	-0.1	101	0.00
2		RDX	300.000	288.291	3.9	100	0.00
3		1,3,5-Trinitrobenzene	300.000	292.991	2.3	101	0.00
4		1,3-Dinitrobenzene	300.000	296.680	1.1	102	0.00
5		Tetryl	300.000	311.529	-3.8	109	0.02
6		Nitrobenzene	300.000	274.061	8.6	95	0.00
7	S	3,4-Dinitrotoluene	300.000	304.845	-1.6	105	0.02
8		2,4,6-Trinitrotoluene	300.000	281.546	6.2	97	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	287.681	4.1	99	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	289.476	3.5	99	0.02
11		2,6-Dinitrotoluene	300.000	284.936	5.0	95	0.00
12		2,4-Dinitrotoluene	300.000	300.964	-0.3	102	0.00
13		o-Nitrotoluene	300.000	279.866	6.7	98	-0.03
14		p-Nitrotoluene	300.000	279.692	6.8	97	0.00
15		m-Nitrotoluene	300.000	283.699	5.4	98	-0.01

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	288.600	3.8	100	0.00
2		RDX	300.000	298.982	0.3	103	0.00
3		1,3,5-Trinitrobenzene	300.000	291.618	2.8	100	0.00
4		1,3-Dinitrobenzene	300.000	296.337	1.2	102	0.00
5		Tetryl	300.000	303.431	-1.1	105	0.00
6		Nitrobenzene	300.000	236.043	21.3#	84	0.00
7	S	3,4-Dinitrotoluene	300.000	301.835	-0.6	104	0.02
8		2,4,6-Trinitrotoluene	300.000	280.243	6.6	96	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	286.521	4.5	98	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	285.254	4.9	98	0.01
11		2,6-Dinitrotoluene	300.000	299.569	0.1	103	0.03
12		2,4-Dinitrotoluene	300.000	278.840	7.1	97	0.00
13		o-Nitrotoluene	300.000	285.564	4.8	98	-0.03
14		p-Nitrotoluene	300.000	288.303	3.9	98	0.00
15		m-Nitrotoluene	300.000	286.836	4.4	99	-0.01

Average % D = 4.2

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG156-ECC150
Lab FileID: GG003079.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG002910.D 8330_EX.M        Fri Apr 26 16:12:39 2002
```

Initial Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG149-ICC149
Lab FileID: GG002881.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Mon Apr 15 09:40:10 2002
Response via : Initial Calibration

Calibration Files
20 =GG002878.D 100 =GG002879.D 200 =GG002880.D
300 =GG002881.D 400 =GG002882.D 500 =GG002883.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		Nitrobenzene	4.208	3.791	3.737	3.661	3.691	3.709	3.799	E3	5.40
2)		1,3-Dinitrobenzene	6.653	6.418	6.305	6.103	6.208	6.272	6.327	E3	3.02
3)		1,3,5-Trinitrobenze	5.024	4.863	4.765	4.647	4.712	4.748	4.793	E3	2.78
4)		RDX	2.498	2.425	2.291	2.239	2.285	2.316	2.343	E3	4.19
5)		o&p-Nitrotoluene	1.923	1.976	1.986	1.893	1.945	1.944	1.945	E3	1.75
6)		m-Nitrotoluene	1.967	2.501	2.492	2.349	2.407	2.406	2.354	E3	8.41
7)		2,4-Dinitrotoluene	4.728	5.774	5.802	5.466	5.608	5.633	5.502	E3	7.24
8)		2,6-Dinitrotoluene	2.417	2.931	3.031	2.841	2.894	2.899	2.835	E3	7.57
9)		2-Amino-4,6-Dinitro	2.216	2.863	2.999	2.894	2.987	3.032	2.832	E3	10.90
10)		4-Amino-2,6-Dinitro	3.126	3.059	3.146	2.916	2.937	2.964	3.025	E3	3.28
11)		HMX	1.771	1.923	2.024	1.876	1.871	1.886	1.892	E3	4.34
12)		2,4,6-Trinitrotolue	4.569	4.356	4.667	4.379	4.424	4.509	4.484	E3	2.68
13)	S	3,4-Dinitrotoluene	2.582	2.522	2.749	2.593	2.618	2.697	2.627	E3	3.14
14)		Tetryl	2.903	3.086	3.075	3.021	3.112	3.119	3.053	E3	2.65

Signal #2 Calibration Files
20 =GG002878.D 100 =GG002879.D 200 =GG002880.D
300 =GG002881.D 400 =GG002882.D 500 =GG002883.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		Nitrobenzene	1.899	1.719	1.690	1.635	1.696	1.654	1.715	E3	5.54
2)		1,3-Dinitrobenzene	7.514	7.063	6.967	6.728	6.877	6.911	7.010	E3	3.86
3)		1,3,5-Trinitrobenze	9.801	9.538	9.378	9.078	9.246	9.308	9.392	E3	2.67
4)		RDX	3.983	3.759	3.673	3.578	3.633	3.668	3.716	E3	3.86
5)		o&p-Nitrotoluene	1.157	1.189	1.205	1.147	1.168	1.171	1.173	E3	1.78
6)		m-Nitrotoluene	0.959	1.285	1.333	1.240	1.274	1.268	1.226	E3	10.97
7)		2,4-Dinitrotoluene	4.318	4.869	4.843	4.579	4.674	4.705	4.665	E3	4.32
8)		2,6-Dinitrotoluene	3.387	3.529	3.642	3.429	3.487	3.516	3.498	E3	2.54
9)		2-Amino-4,6-Dinitro	4.012	4.365	4.615	4.486	4.642	4.741	4.477	E3	5.86
10)		4-Amino-2,6-Dinitro	8.087	8.088	7.947	7.548	7.636	7.698	7.834	E3	3.03
11)		HMX	5.645	5.614	5.604	5.285	5.311	5.339	5.466	E3	3.12
12)		2,4,6-Trinitrotolue	6.643	6.575	6.598	6.275	6.320	6.437	6.475	E3	2.38
13)	S	3,4-Dinitrotoluene	3.441	3.576	3.575	3.372	3.405	3.528	3.483	E3	2.55
14)		Tetryl	5.054	5.400	5.597	5.488	5.635	5.689	5.477	E3	4.24

Average % RSD = 4.4

(#) = Out of Range

8330_CN2.M Mon Apr 15 10:25:19 2002

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG154-CC149
Lab FileID: GG003042.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0423CN\GG003042.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0423CN\GG003042.D\DAD1A.CH
Acq On : 23-Apr-2002, 09:57:42 Operator: MIKEE
Sample : CC149-200 Inst : G1315B
Misc : op4980,ggg154,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Wed Apr 24 07:58:24 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	Nitrobenzene	200.000	193.457	3.3	98	0.02
2	1,3-Dinitrobenzene	200.000	199.862	0.1	100	0.02
3	1,3,5-Trinitrobenzene	200.000	193.505	3.2	97	0.02
4	RDX	200.000	195.622	2.2	100	0.02
5	o&p-Nitrotoluene	400.000	413.960	-3.5	101	0.02
6	m-Nitrotoluene	200.000	202.956	-1.5	96	0.02
7	2,4-Dinitrotoluene	200.000	200.735	-0.4	95	0.02
8	2,6-Dinitrotoluene	200.000	206.672	-3.3	97	0.02
9	2-Amino-4,6-Dinitrotoluene	200.000	180.089	10.0	85	0.02
10	4-Amino-2,6-Dinitrotoluene	200.000	207.089	-3.5	100	0.03
11	HMX	200.000	201.182	-0.6	94	0.02
12	2,4,6-Trinitrotoluene	200.000	191.320	4.3	92	0.02
13 S	3,4-Dinitrotoluene	200.000	198.208	0.9	95	0.02
14	Tetryl	200.000	191.794	4.1	95	0.02

Signal #2

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Nitrobenzene	200.000	189.237	5.4	96	0.02
2	1,3-Dinitrobenzene	200.000	203.027	-1.5	102	0.02
3	1,3,5-Trinitrobenzene	200.000	191.247	4.4	96	0.02
4	RDX	200.000	187.240	6.4	95	0.02
5	o&p-Nitrotoluene	400.000	391.621	2.1	95	0.02
6	m-Nitrotoluene	200.000	195.501	2.2	90	0.02
7	2,4-Dinitrotoluene	200.000	191.754	4.1	92	0.02
8	2,6-Dinitrotoluene	200.000	193.473	3.3	93	0.02
9	2-Amino-4,6-Dinitrotoluen	200.000	170.700	14.7	83	0.08
10	4-Amino-2,6-Dinitrotoluen	200.000	200.802	-0.4	99	0.02
11	HMX	200.000	191.244	4.4	93	0.02
12	2,4,6-Trinitrotoluene	200.000	186.054	7.0	91	0.02
13 S	3,4-Dinitrotoluene	200.000	191.345	4.3	93	0.02
14	Tetryl	200.000	192.660	3.7	94	0.02

Average % D = 3.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002880.D 8330_CN2.M Wed Apr 24 08:33:01 2002

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG154-CC149
Lab FileID: GG003049.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0423CN\GG003049.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0423CN\GG003049.D\DAD1A.CH
Acq On : 23-Apr-2002, 14:14:28 Operator: MIKEE
Sample : CC149-300 Inst : G1315B
Misc : op4998,ggg154,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Wed Apr 24 07:58:24 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		Nitrobenzene	300.000	290.923	3.0	101	0.01
2		1,3-Dinitrobenzene	300.000	295.653	1.4	102	0.00
3		1,3,5-Trinitrobenzene	300.000	294.675	1.8	101	0.00
4		RDX	300.000	299.560	0.1	104	0.00
5		o&p-Nitrotoluene	600.000	604.057	-0.7	103	0.00
6		m-Nitrotoluene	300.000	297.000	1.0	99	0.00
7		2,4-Dinitrotoluene	300.000	304.247	-1.4	102	-0.01
8		2,6-Dinitrotoluene	300.000	309.829	-3.3	103	0.00
9		2-Amino-4,6-Dinitrotoluene	300.000	294.805	1.7	96	-0.03
10		4-Amino-2,6-Dinitrotoluene	300.000	300.052	-0.0	104	0.00
11		HMX	300.000	303.888	-1.3	102	0.00
12		2,4,6-Trinitrotoluene	300.000	291.095	3.0	99	-0.02
13	S	3,4-Dinitrotoluene	300.000	295.764	1.4	100	-0.02
14		Tetryl	300.000	297.968	0.7	100	-0.02

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Nitrobenzene	300.000	292.394	2.5	102	0.01
2		1,3-Dinitrobenzene	300.000	295.300	1.6	103	0.00
3		1,3,5-Trinitrobenzene	300.000	294.859	1.7	102	0.00
4		RDX	300.000	298.454	0.5	103	0.00
5		o&p-Nitrotoluene	600.000	600.259	-0.0	102	0.00
6		m-Nitrotoluene	300.000	298.334	0.6	98	0.00
7		2,4-Dinitrotoluene	300.000	299.565	0.1	102	0.00
8		2,6-Dinitrotoluene	300.000	303.576	-1.2	103	0.00
9		2-Amino-4,6-Dinitrotoluen	300.000	275.793	8.1	92	-0.05
10		4-Amino-2,6-Dinitrotoluen	300.000	306.651	-2.2	106	0.00
11		HMX	300.000	294.862	1.7	102	0.00
12		2,4,6-Trinitrotoluene	300.000	287.430	4.2	99	-0.02
13	S	3,4-Dinitrotoluene	300.000	291.552	2.8	100	-0.02
14		Tetryl	300.000	305.141	-1.7	102	-0.02

Average % D = 1.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002881.D 8330_CN2.M Wed Apr 24 09:02:01 2002

Initial Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG157-ICC157
Lab FileID: GG003085.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 2002
Response via : Initial Calibration

Calibration Files
20 =GG003082.D 100 =GG003083.D 200 =GG003084.D
300 =GG003085.D 400 =GG003086.D 500 =GG003087.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	3.568	3.390	3.226	3.296	3.177	3.219	3.313	E3	4.40
2)		RDX	5.103	4.423	4.249	4.277	4.069	4.063	4.364	E3	8.86
3)		1,3,5-Trinitrobenze	1.074	0.894	0.866	0.876	0.853	0.868	0.905	E4	9.25
4)		1,3-Dinitrobenzene	1.490	1.239	1.188	1.203	1.162	1.178	1.243	E4	9.95
5)		Tetryl	7.053	6.450	6.341	6.455	6.194	6.248	6.457	E3	4.81
6)		Nitrobenzene	9.207	7.989	7.808	7.891	7.652	7.725	8.046	E3	7.23
7)	S	3,4-Dinitrotoluene	5.984	5.293	5.296	5.421	5.122	5.166	5.380	E3	5.83
8)		2,4,6-Trinitrotolue	9.687	8.443	8.287	8.517	8.147	8.221	8.550	E3	6.71
9)		4-Amino-2,6-Dinitro	5.580	5.454	5.379	5.598	5.207	5.280	5.417	E3	2.92
10)		2-Amino-4,6-Dinitro	7.537	7.335	7.065	7.390	6.985	7.022	7.222	E3	3.16
11)		2,6-Dinitrotoluene	5.681	5.712	5.450	5.742	5.354	5.412	5.558	E3	3.09
12)		2,4-Dinitrotoluene	1.248	1.118	1.065	1.125	1.050	1.063	1.112	E4	6.64
13)		o-Nitrotoluene	4.736	4.344	4.203	4.464	4.466	4.495	4.451	E3	3.97
14)		p-Nitrotoluene	4.049	3.551	3.448	3.693	3.694	3.711	3.691	E3	5.52
15)		m-Nitrotoluene	5.160	5.050	4.757	4.927	4.835	4.851	4.930	E3	3.04

Signal #2 Calibration Files
20 =GG003082.D 100 =GG003083.D 200 =GG003084.D
300 =GG003085.D 400 =GG003086.D 500 =GG003087.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	1.143	0.992	0.966	0.975	0.943	0.952	0.995	E4	7.48
2)		RDX	9.045	7.521	7.504	7.313	7.115	6.915	7.569	E3	10.04
3)		1,3,5-Trinitrobenze	2.138	1.799	1.755	1.768	1.721	1.743	1.821	E4	8.65
4)		1,3-Dinitrobenzene	1.703	1.474	1.410	1.437	1.389	1.411	1.471	E4	7.98
5)		Tetryl	1.287	1.141	1.101	1.131	1.089	1.098	1.141	E4	6.49
6)		Nitrobenzene	4.230	3.831	3.661	3.844	3.679	3.706	3.825	E3	5.57
7)	S	3,4-Dinitrotoluene	7.785	7.243	6.998	7.356	6.931	7.007	7.220	E3	4.45
8)		2,4,6-Trinitrotolue	1.327	1.244	1.200	1.235	1.181	1.195	1.230	E4	4.33
9)		4-Amino-2,6-Dinitro	1.508	1.479	1.421	1.473	1.404	1.418	1.450	E4	2.88
10)		2-Amino-4,6-Dinitro	1.269	1.219	1.173	1.230	1.162	1.173	1.204	E4	3.47
11)		2,6-Dinitrotoluene	7.481	7.508	7.150	7.466	7.030	7.103	7.290	E3	2.99
12)		2,4-Dinitrotoluene	1.112	1.007	0.960	1.033	0.950	0.962	1.004	E4	6.16
13)		o-Nitrotoluene	4.926	4.716	4.807	4.825	4.796	4.843	4.819	E3	1.42
14)		p-Nitrotoluene	7.832	7.377	7.569	7.592	7.488	7.558	7.569	E3	1.99
15)		m-Nitrotoluene	8.006	7.458	7.283	7.370	7.237	7.280	7.439	E3	3.88

Average % RSD = 5.4

(#) = Out of Range

8330_EX.M Tue Apr 30 10:47:24 2002

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003120.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0430EXP\GG003120.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0430EXP\GG003120.D\DAD1A.CH
Acq On : 30-Apr-2002, 12:07:07 Operator: MIKEE
Sample : CC157-200 Inst : G1315B
Misc : op5028,ggg158,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 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	200.000	198.767	0.6	102	0.01
2		RDX	200.000	191.768	4.1	98	0.00
3		1,3,5-Trinitrobenzene	200.000	192.394	3.8	101	0.00
4		1,3-Dinitrobenzene	200.000	195.339	2.3	102	0.00
5		Tetryl	200.000	191.546	4.2	98	0.00
6		Nitrobenzene	200.000	190.672	4.7	98	0.00
7	S	3,4-Dinitrotoluene	200.000	190.613	4.7	97	0.00
8		2,4,6-Trinitrotoluene	200.000	196.111	1.9	101	-0.01
9		4-Amino-2,6-Dinitrotoluene	200.000	199.226	0.4	100	0.00
10		2-Amino-4,6-Dinitrotoluene	200.000	197.307	1.3	101	0.00
11		2,6-Dinitrotoluene	200.000	193.989	3.0	99	-0.02
12		2,4-Dinitrotoluene	200.000	193.655	3.2	101	-0.02
13		o-Nitrotoluene	200.000	195.443	2.3	103	-0.03
14		p-Nitrotoluene	200.000	201.233	-0.6	108	-0.03
15		m-Nitrotoluene	200.000	196.337	1.8	102	-0.03

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	192.903	3.5	99	0.00
2		RDX	200.000	191.112	4.4	96	0.00
3		1,3,5-Trinitrobenzene	200.000	192.303	3.8	100	0.00
4		1,3-Dinitrobenzene	200.000	191.229	4.4	100	0.00
5		Tetryl	200.000	192.863	3.6	100	0.00
6		Nitrobenzene	200.000	193.059	3.5	101	0.00
7	S	3,4-Dinitrotoluene	200.000	193.355	3.3	100	0.00
8		2,4,6-Trinitrotoluene	200.000	198.852	0.6	102	-0.01
9		4-Amino-2,6-Dinitrotoluen	200.000	197.885	1.1	101	0.00
10		2-Amino-4,6-Dinitrotoluen	200.000	197.556	1.2	101	0.00
11		2,6-Dinitrotoluene	200.000	195.110	2.4	99	-0.02
12		2,4-Dinitrotoluene	200.000	193.286	3.4	101	-0.02
13		o-Nitrotoluene	200.000	192.445	3.8	96	-0.03
14		p-Nitrotoluene	200.000	198.014	1.0	99	-0.04
15		m-Nitrotoluene	200.000	194.835	2.6	100	-0.04

Average % D = 2.7

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003120.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG003084.D 8330_EX.M        Wed May 01 13:22:08 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003128.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0430EXP\GG003128.D\DAD1B.CH Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0430EXP\GG003128.D\DAD1A.CH
Acq On : 30-Apr-2002, 16:37:50 Operator: MIKEE
Sample : CC157-300 Inst : G1315B
Misc : op5028,ggg158,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 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	295.615	1.5	99	0.02
2		RDX	300.000	288.605	3.8	98	0.02
3		1,3,5-Trinitrobenzene	300.000	288.643	3.8	99	0.01
4		1,3-Dinitrobenzene	300.000	287.888	4.0	99	0.02
5		Tetryl	300.000	288.370	3.9	96	0.01
6		Nitrobenzene	300.000	286.438	4.5	97	0.02
7	S	3,4-Dinitrotoluene	300.000	285.137	5.0	94	0.01
8		2,4,6-Trinitrotoluene	300.000	291.259	2.9	97	0.01
9		4-Amino-2,6-Dinitrotoluene	300.000	295.552	1.5	95	0.02
10		2-Amino-4,6-Dinitrotoluene	300.000	295.984	1.3	96	0.02
11		2,6-Dinitrotoluene	300.000	288.624	3.8	93	0.01
12		2,4-Dinitrotoluene	300.000	294.492	1.8	97	0.01
13		o-Nitrotoluene	300.000	301.918	-0.6	100	0.01
14		p-Nitrotoluene	300.000	304.476	-1.5	101	0.01
15		m-Nitrotoluene	300.000	293.307	2.2	98	0.02

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	290.322	3.2	99	0.01
2		RDX	300.000	285.982	4.7	99	0.01
3		1,3,5-Trinitrobenzene	300.000	289.188	3.6	99	0.02
4		1,3-Dinitrobenzene	300.000	291.602	2.8	99	0.02
5		Tetryl	300.000	288.518	3.8	97	0.01
6		Nitrobenzene	300.000	286.903	4.4	95	0.02
7	S	3,4-Dinitrotoluene	300.000	287.045	4.3	94	0.01
8		2,4,6-Trinitrotoluene	300.000	295.177	1.6	98	0.01
9		4-Amino-2,6-Dinitrotoluen	300.000	294.398	1.9	97	0.02
10		2-Amino-4,6-Dinitrotoluen	300.000	294.853	1.7	96	0.02
11		2,6-Dinitrotoluene	300.000	289.890	3.4	94	0.01
12		2,4-Dinitrotoluene	300.000	291.735	2.8	95	0.01
13		o-Nitrotoluene	300.000	296.973	1.0	99	0.01
14		p-Nitrotoluene	300.000	297.398	0.9	99	0.01
15		m-Nitrotoluene	300.000	290.994	3.0	98	0.02

Average % D = 2.8

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003128.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG003085.D 8330_EX.M        Wed May 01 13:22:35 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003162.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0430EXP\GG003162.D\DAD1B.CH Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0430EXP\GG003162.D\DAD1A.CH
Acq On : 01-May-2002, 11:39:21 Operator: MIKEE
Sample : CC157-300 Inst : G1315B
Misc : op5051,ggg158,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 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	300.911	-0.3	101	0.02
2		RDX	300.000	288.860	3.7	98	0.01
3		1,3,5-Trinitrobenzene	300.000	289.156	3.6	100	0.00
4		1,3-Dinitrobenzene	300.000	290.714	3.1	100	0.00
5		Tetryl	300.000	294.007	2.0	98	0.00
6		Nitrobenzene	300.000	286.011	4.7	97	0.00
7	S	3,4-Dinitrotoluene	300.000	297.550	0.8	98	0.00
8		2,4,6-Trinitrotoluene	300.000	291.929	2.7	98	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	298.288	0.6	96	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	296.014	1.3	96	0.00
11		2,6-Dinitrotoluene	300.000	296.860	1.0	96	0.00
12		2,4-Dinitrotoluene	300.000	287.777	4.1	95	0.00
13		o-Nitrotoluene	300.000	294.322	1.9	98	0.00
14		p-Nitrotoluene	300.000	292.504	2.5	97	0.00
15		m-Nitrotoluene	300.000	289.232	3.6	96	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	300.550	-0.2	102	0.02
2		RDX	300.000	290.370	3.2	100	0.01
3		1,3,5-Trinitrobenzene	300.000	288.782	3.7	99	0.00
4		1,3-Dinitrobenzene	300.000	293.890	2.0	100	0.00
5		Tetryl	300.000	289.141	3.6	97	0.00
6		Nitrobenzene	300.000	280.142	6.6	93	0.00
7	S	3,4-Dinitrotoluene	300.000	293.062	2.3	96	0.00
8		2,4,6-Trinitrotoluene	300.000	292.296	2.6	97	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	294.713	1.8	97	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	292.867	2.4	96	0.00
11		2,6-Dinitrotoluene	300.000	294.389	1.9	96	0.00
12		2,4-Dinitrotoluene	300.000	286.334	4.6	93	0.00
13		o-Nitrotoluene	300.000	292.799	2.4	97	0.00
14		p-Nitrotoluene	300.000	294.394	1.9	98	0.00
15		m-Nitrotoluene	300.000	287.424	4.2	97	0.00

Average % D = 2.6

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-CC157
Lab FileID: GG003162.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG003085.D 8330_EX.M        Wed May 01 13:43:19 2002
```

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-ECC157
Lab FileID: GG003168.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0430EXP\GG003168.D\DAD1B.CH Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0430EXP\GG003168.D\DAD1A.CH
Acq On : 01-May-2002, 14:51:51 Operator: MIKEE
Sample : ECC157-300 Inst : G1315B
Misc : op5028,ggg158,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 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	304.789	-1.6	102	0.02
2		RDX	300.000	288.653	3.8	98	0.01
3		1,3,5-Trinitrobenzene	300.000	289.646	3.5	100	0.01
4		1,3-Dinitrobenzene	300.000	291.775	2.7	101	0.00
5		Tetryl	300.000	291.479	2.8	97	0.00
6		Nitrobenzene	300.000	285.086	5.0	97	0.00
7	S	3,4-Dinitrotoluene	300.000	290.197	3.3	96	-0.02
8		2,4,6-Trinitrotoluene	300.000	290.455	3.2	97	-0.01
9		4-Amino-2,6-Dinitrotoluene	300.000	297.495	0.8	96	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	294.250	1.9	96	0.00
11		2,6-Dinitrotoluene	300.000	294.022	2.0	95	-0.02
12		2,4-Dinitrotoluene	300.000	291.412	2.9	96	-0.02
13		o-Nitrotoluene	300.000	299.014	0.3	99	-0.03
14		p-Nitrotoluene	300.000	302.475	-0.8	101	-0.03
15		m-Nitrotoluene	300.000	293.993	2.0	98	-0.03

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	291.472	2.8	99	0.02
2		RDX	300.000	286.183	4.6	99	0.01
3		1,3,5-Trinitrobenzene	300.000	288.410	3.9	99	0.01
4		1,3-Dinitrobenzene	300.000	295.577	1.5	101	0.00
5		Tetryl	300.000	289.483	3.5	97	0.00
6		Nitrobenzene	300.000	283.028	5.7	94	0.00
7	S	3,4-Dinitrotoluene	300.000	289.750	3.4	95	-0.02
8		2,4,6-Trinitrotoluene	300.000	292.027	2.7	97	-0.01
9		4-Amino-2,6-Dinitrotoluen	300.000	293.884	2.0	96	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	292.775	2.4	96	0.00
11		2,6-Dinitrotoluene	300.000	292.343	2.6	95	-0.02
12		2,4-Dinitrotoluene	300.000	287.824	4.1	93	-0.02
13		o-Nitrotoluene	300.000	297.230	0.9	99	-0.03
14		p-Nitrotoluene	300.000	295.560	1.5	98	-0.03
15		m-Nitrotoluene	300.000	290.421	3.2	98	-0.03

Average % D = 2.7

Continuing Calibration Summary

Job Number: F12883
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG158-ECC157
Lab FileID: GG003168.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 GG003085.D 8330_EX.M        Wed May 01 15:17:29 2002
```

Metals Analysis

QC Data Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
Analyst: LIR Run ID: MA2770
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2770-ICV1	1		
00:00	MA2770-ICB1	1		
00:00	MA2770-CCV1	1		
00:00	MA2770-CCB1	1		
00:00	MA2770-CRI1	1		
00:00	MP4341-MB1	1		
00:00	MP4341-B1	1		
00:00	MP4341-S1	1		
00:00	MP4341-S2	1		
00:00	MP4341-D1	1		
00:00	F12898-1	1		(sample used for QC only; not part of login F12883)
00:00	ZZZZZZ	1		
00:00	F12883-1	1		
00:00	F12883-1A	1		
00:00	ZZZZZZ	1		
00:00	MA2770-CCV2	1		
00:00	MA2770-CCB2	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	MA2770-CCV3	1		
00:00	MA2770-CCB3	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA2770 Units: ug/l

Metal	RL	IDL	ICB raw	ICB final	CCB raw	CCB final	CCB raw	CCB final	CCB raw	CCB final
Mercury	1.0	.06	-0.0011	<1.0	-0.0011	<1.0	-0.0011	<1.0	-0.0011	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2770 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.3	110.0	3.0	3.3	110.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2770 Units: ug/l

Metal	CCV True	CCV Results	% Rec
Mercury	3.0	3.1	103.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: to % Recovery Run ID: MA2770 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.50		0.66	132.0

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
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
13:08	MA2775-ICV1	1		
13:12	MA2775-ICB1	1		
13:15	MA2775-CRI1	1		
13:18	MA2775-ICSA1	1		
13:24	MA2775-ICSA2	1		
13:25	MA2775-ICSAB1	1		
13:29	MA2775-CCV1	1		
13:34	MA2775-CCB1	1		
13:38	MP4347-MB1	1		
13:42	MP4347-B1	1		
13:47	F12925-1	1		(sample used for QC only; not part of login F12883)
13:51	MP4347-S1	1		
13:54	MP4347-S2	1		
14:01	MP4347-D1	1		
14:05	MP4347-SD1	5		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:20	MA2775-CCV2	1		
14:25	MA2775-CCB2	1		
14:29	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:37	F12883-1	1		
14:41	F12883-1A	1		
14:45	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:53	ZZZZZZ	1		
14:57	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:08	MA2775-CCV3	1		
15:14	MA2775-CCB3	1		
15:17	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
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
	15:21	ZZZZZZ	1		
	15:25	ZZZZZZ	1		
	15:29	ZZZZZZ	1		
	15:33	ZZZZZZ	1		
	15:37	ZZZZZZ	1		
	15:41	MP4348-MB1	1		
	15:45	MP4348-B1	1		
	15:50	F12924-1	1		(sample used for QC only; not part of login F12883)
	15:54	MP4348-S1	1		
	15:58	MA2775-CCV4	1		
	16:03	MA2775-CCB4	1		
	16:07	MP4348-S2	1		
	16:13	MP4348-D1	1		
	16:17	MP4348-SD1	5		
	16:21	ZZZZZZ	1		
	16:25	ZZZZZZ	1		
	16:29	ZZZZZZ	1		
	16:33	ZZZZZZ	1		
	16:37	ZZZZZZ	1		
	16:40	ZZZZZZ	1		
	16:44	ZZZZZZ	1		
	16:48	MA2775-CCV5	1		
	16:53	MA2775-CCB5	1		
	16:58	ZZZZZZ	1		
	17:02	ZZZZZZ	1		
	17:06	ZZZZZZ	1		
	17:10	ZZZZZZ	1		
	17:13	ZZZZZZ	1		
	17:17	MP4347-MB1	1		
---------->	Last reportable sample/prep for job F12883				
	17:21	MA2775-CCV6	1		
	17:26	MA2775-CCB6	1		
---------->	Last reportable CCB for job F12883				

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2775 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	-6.3	<200	33.2	<200<	6.3	<200	8.1	<200
Antimony	0.0050	1.52	3.8	<5.0	2.3	<5.0	0.49	<5.0	3.7	<5.0
Arsenic	0.010	2.83	1.5	<10	2.0	<10	0.16	<10	2.7	<10
Barium	200	.49	0.21	<200	-0.19	<200	-0.20	<200	0.050	<200
Beryllium	5.0	.26	-0.040	<5.0	-0.28	<5.0	-0.24	<5.0	0.0	<5.0
Cadmium	5.0	.26	-0.060	<5.0	-0.34	<5.0	-0.55	<5.0	-0.31	<5.0
Calcium	1000	3.82	-1.6	<1000	14.7	<1000	5.0	<1000	5.0	<1000
Chromium	10	.43	0.57	<10	0.56	<10	-0.080	<10	0.49	<10
Cobalt	50	.5	0.78	<50	-0.11	<50	-0.15	<50	0.0	<50
Copper	25	.44	1.0	<25	-0.21	<25	-0.96	<25	0.18	<25
Iron	300	7.11	14.2	<300	0.86	<300	1.9	<300	16.2	<300
Lead	0.0050	1.22	1.0	<5.0	2.9	<5.0	1.4	<5.0	0.44	<5.0
Magnesium	5000	9.88	6.7	<5000	15.0	<5000	-1.6	<5000	9.4	<5000
Manganese	15	.16	0.0	<15	-0.53	<15	-0.58	<15	-0.39	<15
Molybdenum	50	.75	anr							
Nickel	40	1.08	0.62	<40	-0.11	<40	-0.050	<40	0.27	<40
Potassium	5000	13.9	549	<5000<	649	<5000<	573	<5000<	550	<5000<
Selenium	0.010	1.98	-0.95	<10	3.2	<10	3.8	<10	0.67	<10
Silver	10	.55	-1.2	<10	2.0	<10<	-1.0	<10	-1.4	<10
Sodium	5000	145	435	<5000	73.3	<5000	8.0	<5000	291	<5000
Thallium	0.010	1.49	0.97	<10	1.2	<10	-0.43	<10	-1.5	<10
Tin	50	2.18								
Vanadium	50	.47	0.83	<50	-0.15	<50	-0.11	<50	0.25	<50
Zinc	20	.59	-0.51	<20	-0.030	<20	-0.41	<20	-0.61	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2775 Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	27.6	<200<	25.0	<200<	19.7	<200
Antimony	0.0050	1.52	3.8	<5.0	6.0	* (a)	2.8	<5.0
Arsenic	0.010	2.83	2.5	<10	0.79	<10	1.4	<10
Barium	200	.49	0.33	<200	0.090	<200	-0.080	<200
Beryllium	5.0	.26	-0.040	<5.0	-0.070	<5.0	-0.050	<5.0
Cadmium	5.0	.26	-0.21	<5.0	-0.21	<5.0	-0.42	<5.0
Calcium	1000	3.82	5.9	<1000	2.1	<1000	1.2	<1000
Chromium	10	.43	0.48	<10	0.75	<10	0.16	<10
Cobalt	50	.5	0.19	<50	0.49	<50	-0.090	<50
Copper	25	.44	-0.080	<25	1.1	<25	-0.41	<25
Iron	300	7.11	13.6	<300	30.6	<300<	14.4	<300
Lead	0.0050	1.22	2.8	<5.0	1.3	<5.0	0.84	<5.0
Magnesium	5000	9.88	6.4	<5000	7.4	<5000	0.90	<5000
Manganese	15	.16	-0.34	<15	-0.17	<15	-0.31	<15
Molybdenum	50	.75	anr					
Nickel	40	1.08	0.44	<40	0.68	<40	-0.15	<40
Potassium	5000	13.9	678	<5000<	642	<5000<	623	<5000<
Selenium	0.010	1.98	1.1	<10	2.1	<10	2.4	<10
Silver	10	.55	2.3	<10<	3.2	<10<	2.2	<10<
Sodium	5000	145	444	<5000	476	<5000	139	<5000
Thallium	0.010	1.49	4.2	<10	-0.27	<10	1.4	<10
Tin	50	2.18						
Vanadium	50	.47	0.71	<50	0.94	<50	0.33	<50
Zinc	20	.59	0.20	<20	0.63	<20	0.42	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible positive bias, but all sample results < the DL.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40200	100.5	40	40200	100.5	40	40100	100.3
Antimony	2.0	2060	103.0	2.0	2050	102.5	2.0	2060	103.0
Arsenic	2.0	2020	101.0	2.0	2010	100.5	2.0	2040	102.0
Barium	2.0	2040	102.0	2.0	2050	102.5	2.0	2060	103.0
Beryllium	2.0	2040	102.0	2.0	2030	101.5	2.0	2050	102.5
Cadmium	2.0	1970	98.5	2.0	1950	97.5	2.0	1980	99.0
Calcium	40	42200	105.5	40	41900	104.8	40	42600	106.5
Chromium	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Cobalt	2.0	2020	101.0	2.0	2000	100.0	2.0	2040	102.0
Copper	2.0	2000	100.0	2.0	2000	100.0	2.0	2000	100.0
Iron	40	41500	103.8	40	41300	103.3	40	41700	104.3
Lead	2.0	2050	102.5	2.0	2050	102.5	2.0	2070	103.5
Magnesium	40	41400	103.5	40	41000	102.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Molybdenum	anr								
Nickel	2.0	2070	103.5	2.0	2060	103.0	2.0	2080	104.0
Potassium	40	39900	99.8	40	39800	99.5	40	39900	99.8
Selenium	2.0	2080	104.0	2.0	2070	103.5	2.0	2100	105.0
Silver	0.25	247	98.8	0.25	244	97.6	0.25	244	97.6
Sodium	40	38000	95.0	40	37100	92.8	40	37500	93.8
Thallium	2.0	2020	101.0	2.0	2010	100.5	2.0	2030	101.5
Tin									
Vanadium	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Zinc	2.0	2090	104.5	2.0	2060	103.0	2.0	2120	106.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40200	100.5	40	40200	100.5	40	40200	100.5
Antimony	2.0	2070	103.5	2.0	2070	103.5	2.0	2090	104.5
Arsenic	2.0	2050	102.5	2.0	2050	102.5	2.0	2080	104.0
Barium	2.0	2070	103.5	2.0	2080	104.0	2.0	2070	103.5
Beryllium	2.0	2060	103.0	2.0	2050	102.5	2.0	2070	103.5
Cadmium	2.0	1980	99.0	2.0	1980	99.0	2.0	2000	100.0
Calcium	40	42900	107.3	40	42800	107.0	40	43400	108.5
Chromium	2.0	2100	105.0	2.0	2100	105.0	2.0	2110	105.5
Cobalt	2.0	2050	102.5	2.0	2050	102.5	2.0	2070	103.5
Copper	2.0	2010	100.5	2.0	2010	100.5	2.0	2010	100.5
Iron	40	41900	104.8	40	41800	104.5	40	42200	105.5
Lead	2.0	2080	104.0	2.0	2070	103.5	2.0	2080	104.0
Magnesium	40	42300	105.8	40	42200	105.5	40	42800	107.0
Manganese	2.0	2100	105.0	2.0	2100	105.0	2.0	2110	105.5
Molybdenum	anr								
Nickel	2.0	2100	105.0	2.0	2090	104.5	2.0	2110	105.5
Potassium	40	40000	100.0	40	40200	100.5	40	40100	100.3
Selenium	2.0	2110	105.5	2.0	2110	105.5	2.0	2110	105.5
Silver	0.25	245	98.0	0.25	243	97.2	0.25	245	98.0
Sodium	40	37600	94.0	40	37700	94.3	40	38500	96.3
Thallium	2.0	2030	101.5	2.0	2040	102.0	2.0	2050	102.5
Tin									
Vanadium	2.0	2090	104.5	2.0	2100	105.0	2.0	2110	105.5
Zinc	2.0	2140	107.0	2.0	2130	106.5	2.0	2170	108.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	40	40500	101.3
Antimony	2.0	2100	105.0
Arsenic	2.0	2090	104.5
Barium	2.0	2100	105.0
Beryllium	2.0	2090	104.5
Cadmium	2.0	2010	100.5
Calcium	40	43700	109.3
Chromium	2.0	2130	106.5
Cobalt	2.0	2080	104.0
Copper	2.0	2030	101.5
Iron	40	42500	106.3
Lead	2.0	2090	104.5
Magnesium	40	43200	108.0
Manganese	2.0	2130	106.5
Molybdenum	anr		
Nickel	2.0	2130	106.5
Potassium	40	40400	101.0
Selenium	2.0	2130	106.5
Silver	0.25	247	98.8
Sodium	40	39000	97.5
Thallium	2.0	2060	103.0
Tin			
Vanadium	2.0	2120	106.0
Zinc	2.0	2190	109.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2775 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		383	95.8
Antimony	0.010		12.4	124.0
Arsenic	0.020		23.2	116.0
Barium	0.40		398	99.5
Beryllium	0.010		10.1	101.0
Cadmium	0.010		9.8	98.0
Calcium	2.0		2020	101.0
Chromium	0.020		21.0	105.0
Cobalt	0.10		100	100.0
Copper	0.050		49.3	98.6
Iron	0.60		623	103.8
Lead	0.010		11.6	116.0
Magnesium	10		9720	97.2
Manganese	0.030		30.1	100.3
Molybdenum	0.10		anr	
Nickel	0.080		87.5	109.4
Potassium	10		9430	94.3
Selenium	0.010		12.2	122.0
Silver	0.020		20.5	102.5
Sodium	10		8620	86.2
Thallium	0.020		16.8	84.0
Tin	0.10			
Vanadium	0.10		103	103.0
Zinc	0.040		40.2	100.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2775 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			511000	102.2	495000	99.0
Antimony		1.0			-0.040		1050	105.0
Arsenic		1.0			3.7		1000	100.0
Barium		0.50			1.6		528	105.6
Beryllium		0.50			-0.48		520	104.0
Cadmium		1.0			-3.9		905	90.5
Calcium	500	500			474000	94.8	456000	91.2
Chromium		0.50			4.1		511	102.2
Cobalt		0.50			1.6		505	101.0
Copper		0.50			-18		558	111.6
Iron	200	200			200000	100.0	192000	96.0
Lead		1.0			1.7		967	96.7
Magnesium	500	500			529000	105.8	509000	101.8
Manganese		0.50			-0.53		544	108.8
Molybdenum		1.0			-0.67		978	97.8
Nickel		1.0			1.3		953	95.3
Potassium					593		3480	
Selenium		1.0			1.2		1020	102.0
Silver		1.0			0.42		1050	105.0
Sodium					773		2230	
Thallium		1.0			-0.010		987	98.7
Tin		1.0			-5.2		968	96.8
Vanadium		0.50			11.3		509	101.8
Zinc		1.0			-0.63		918	91.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.06	-0.0011	<1.0

Associated samples MP4341: F12883-1, F12883-1A

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: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02 04/15/02

Metal	F12898-1 Original	DUP	RPD	QC Limits	F12898-1 Original	MS	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.54	0.51	5.7	0-20	0.54	3.7	3	105.3	62-131

Associated samples MP4341: F12883-1, F12883-1A

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: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02

Metal	F12898-1 Original	MSD	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.54	3.7	3	105.3	62-131

Associated samples MP4341: F12883-1, F12883-1A

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: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/15/02

Metal	BSP Result	Spikelot HGFLWS	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP4341: F12883-1, F12883-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	-16	<200
Antimony	5.0	1.52	1.3	<5.0
Arsenic	10	2.83	1.7	<10
Barium	200	.49	-0.24	<200
Beryllium	5.0	.26	-0.31	<5.0
Cadmium	5.0	.26	-0.55	<5.0
Calcium	1000	3.82	1.1	<1000
Chromium	10	.43	0.16	<10
Cobalt	50	.5	0.030	<50
Copper	25	.44	-1.7	<25
Iron	300	7.11	-64	<300
Lead	5.0	1.22	-0.46	<5.0
Magnesium	5000	9.88	-1.9	<5000
Manganese	15	.16	-1.8	<15
Molybdenum	50	.75	anr	
Nickel	40	1.08	-0.35	<40
Potassium	5000	13.9	526	<5000
Selenium	10	1.98	-0.010	<10
Silver	10	.55	-1.4	<10
Sodium	5000	145	268	<5000
Thallium	10	1.49	-4.7	<10
Tin	50	2.18		
Vanadium	50	.47	0.0	<50
Zinc	20	.59	-2.9	<20

Associated samples MP4347: F12883-1, F12883-1A

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: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			04/18/02						04/18/02	
Metal	F12925-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12925-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	6960	37600	29000	105.7	70-122	6960	36700	29000	102.6	70-122
Antimony	0.0	1050	1000	105.0	66-120	0.0	1040	1000	104.0	66-120
Arsenic	0.0	4080	4000	102.0	75-120	0.0	4010	4000	100.3	75-120
Barium	122	4210	4000	102.2	72-120	122	4110	4000	99.7	72-120
Beryllium	0.0	102	100	102.0	73-120	0.0	100	100	100.0	73-120
Cadmium	0.0	94.7	100	94.7	72-120	0.0	93.3	100	93.3	72-120
Calcium	314000	341000	25000	108.0	37-150	314000	335000	25000	84.0	37-150
Chromium	2.0	409	400	101.8	69-122	2.0	402	400	100.0	69-122
Cobalt	2.3	989	1000	98.7	69-120	2.3	971	1000	96.9	69-120
Copper	0.0	526	500	105.2	70-120	0.0	513	500	102.6	70-120
Iron	9250	37200	27000	103.5	72-122	9250	36400	27000	100.6	72-122
Lead	3.5	1000	1000	99.7	70-126	3.5	985	1000	98.2	70-126
Magnesium	9870	34600	25000	98.9	73-127	9870	34100	25000	96.9	73-127
Manganese	25.8	1060	1000	103.4	74-122	25.8	1040	1000	101.4	74-122
Molybdenum										
Nickel	5.4	1010	1000	100.5	69-120	5.4	989	1000	98.4	69-120
Potassium	66800	94700	25000	111.6	61-122	66800	92900	25000	104.4	61-122
Selenium	0.0	4080	4000	102.0	74-120	0.0	4050	4000	101.3	74-120
Silver	0.0	104	100	104.0	52-126	0.0	102	100	102.0	52-126
Sodium	133000	169000	25000	144.0(a)	56-130	133000	165000	25000	128.0	56-130
Thallium	2.6	4120	4000	102.9	80-122	2.6	4060	4000	101.4	80-122
Tin										
Vanadium	4.1	1050	1000	104.6	75-122	4.1	1030	1000	102.6	75-122
Zinc	8.8	1010	1000	100.1	68-123	8.8	996	1000	98.7	68-123

Associated samples MP4347: F12883-1, F12883-1A

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) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	F12925-1 Original	DUP	RPD	QC Limits
Aluminum	6960	7050	1.3	0-23
Antimony	0.0	2.4	200.0(a)	0-20
Arsenic	0.0	4.9	200.0(a)	0-29
Barium	122	124	1.6	0-20
Beryllium	0.0	0.0	NC	0-25
Cadmium	0.0	0.0	NC	0-20
Calcium	314000	317000	1.0	0-20
Chromium	2.0	2.4	18.2	0-47
Cobalt	2.3	2.9	23.1	0-30
Copper	0.0	0.93	200.0(a)	0-21
Iron	9250	9390	1.5	0-23
Lead	3.5	3.0	15.4	0-44
Magnesium	9870	10100	2.3	0-20
Manganese	25.8	26.2	1.5	0-30
Molybdenum	anr			
Nickel	5.4	6.4	16.9	0-56
Potassium	66800	67900	1.6	0-20
Selenium	0.0	0.0	NC	0-36
Silver	0.0	2.6	200.0(a)	0-20
Sodium	133000	137000	3.0	0-20
Thallium	2.6	4.8	59.5 (a)	0-26
Tin				
Vanadium	4.1	5.1	21.7	0-28
Zinc	8.8	9.1	3.4	0-54

Associated samples MP4347: F12883-1, F12883-1A

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.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	29500	29000	101.7	80-120
Antimony	1040	1000	104.0	80-120
Arsenic	3990	4000	99.8	80-120
Barium	4110	4000	102.8	80-120
Beryllium	104	100	104.0	80-120
Cadmium	98.6	100	98.6	80-120
Calcium	25900	25000	103.6	80-120
Chromium	416	400	104.0	80-120
Cobalt	1010	1000	101.0	80-120
Copper	519	500	103.8	80-120
Iron	28500	27000	105.6	80-120
Lead	1040	1000	104.0	80-120
Magnesium	25000	25000	100.0	80-120
Manganese	1060	1000	106.0	80-120
Molybdenum				
Nickel	1040	1000	104.0	80-120
Potassium	25100	25000	100.4	80-120
Selenium	4120	4000	103.0	80-120
Silver	100	100	100.0	80-120
Sodium	23500	25000	94.0	80-120
Thallium	4240	4000	106.0	80-120
Tin				
Vanadium	1040	1000	104.0	80-120
Zinc	1040	1000	104.0	80-120

Associated samples MP4347: F12883-1, F12883-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12883
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	F12925-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	6960	6850	1.5	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	122	122	0.2	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	314000	330000	5.2	0-10
Chromium	1.97	0.00	100.0(a)	0-10
Cobalt	2.29	0.00	100.0(a)	0-10
Copper	0.00	0.00	NC	0-10
Iron	9250	9340	1.0	0-10
Lead	3.52	16.0	354.0(a)	0-10
Magnesium	9870	10300	4.0	0-10
Manganese	25.8	19.4	24.6*(b)	0-10
Molybdenum	anr			
Nickel	5.37	0.00	100.0(a)	0-10
Potassium	66800	63900	4.2	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	8.57		0-10
Sodium	133000	116000	12.7*(b)	0-10
Thallium	2.56	0.00	100.0(a)	0-10
Tin				
Vanadium	4.09	0.00	100.0(a)	0-10
Zinc	8.77	0.00	100.0(a)	0-10

Associated samples MP4347: F12883-1, F12883-1A

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.

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

F12883

Reference Document No: 04112002A

Project Number: 825635
Samples Shipment Date: 11 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: Accutest Laboratories
Sample Coordinator: Don Dill
Lab Contact: Sue Bell
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095398

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Dm Dill	Date: 4/11/02 Time: 1800	1. Received By (Signature/Affiliation) Miranda Arquit	Date: 4/12/02 Time: 1330
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CB3035	PBOW-02-GW-IT-AA3-BEDGW-001-CB3035-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
CB3035	PBOW-02-GW-IT-AA3-BEDGW-001-CB3035-48-48	10 APR 2002	17:00	500 mL HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010B/7470A in water	N		
CB3035	PBOW-02-GW-IT-AA3-BEDGW-001-CB3035-48-48	10 APR 2002	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
CB3035	PBOW-02-GW-IT-AA3-BEDGW-001-CB3035-48-48	10 APR 2002	17:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
CB3035	PBOW-02-GW-IT-AA3-BEDGW-001-CB3035-48-48	10 APR 2002	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
CB5015	PBOW-02-BW-FIELDQC-CB5015-	11 APR 2002	18:00	40 mL GVIAL,SEP	3		TCL Volatiles by SW-846 8260B	N		

on ice + Pellets

Southeast ACCUTEST

SET 2

05/07/02

Technical Report for

IT Corporation

Plum Brook Ordnance WKS.

825635

Accutest Job Number: F12898

Report to:

IT Corporation

mmcmyler@theitgroup.com

ATTN: Maureen McMyler

Total number of pages in report: 110

ACCREDITED IN ACCORDANCE WITH NELAC

Harry Behzadi, Ph.D.
Laboratory Director

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.

Certification: Florida DOH E83510

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Sample Summary

IT Corporation

Job No: F12898

Plum Brook Ordnance WKS.
Project No: 825635

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12898-1	04/12/02	13:05	DD	04/13/02	AQ	Ground Water	CB3047
F12898-2	04/12/02	00:00	DD	04/13/02	AQ	Trip Blank Water	CB5017
F12898-1A	04/12/02	13:05	DD	04/13/02	AQ	Groundwater Filtered	CB3047

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015978.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	102%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009561.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009601.D	1	04/26/02	ME	04/18/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic Acid	ND	28	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phe	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalat	ND	5.5	ug/l	
100-51-6	Benzyl Alcohol	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)me	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)eth	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang
J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
108-60-1	bis(2-Chloroisopropyl	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl	ND	5.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	5.4	5.5	ug/l	J
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidir	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracer	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phtl	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentac	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrer	ND	5.5	ug/l	
78-59-1	Isophorone	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propyl	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamir	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	
120-82-1	1,2,4-Trichlorobenzer	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	11%	11% [b]	20-125%
4165-62-2	Phenol-d5	17%	17%	10-125%
118-79-6	2,4,6-Tribromophenol	17%	17% [b]	35-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rang
J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%	73%	46-125%
321-60-8	2-Fluorobiphenyl	75%	73%	46-125%
1718-51-0	Terphenyl-d14	86%	90%	49-126%

(a) Surrogates outside of control limits, all values should be considered estimated.
(b) Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration rangN
J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1[a]	GG003016.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153
Run #2	GG003044.D	1	04/23/02	MRE	04/16/02	OP4980	GGG154
Run #3[a]	GG003017.D	20	04/22/02	MRE	04/16/02	OP4980	GGG153

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2	1000 ml	10.0 ml
Run #3	1000 ml	10.0 ml

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND [b]	10	ug/l	
121-82-4	RDX	ND	0.50	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.40	ug/l	
606-20-2	2,6-Dinitrotoluene	1.4[d]	0.20	ug/l	
121-14-2	2,4-Dinitrotoluene	4.6	0.20	ug/l	
35572-78-2	2-amino-4,6-Dinitrotc	23.0[b]	4.0	ug/l	
19406-51-0	4-amino-2,6-Dinitrotc	17.1[b]	4.0	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	59.8[b]	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
610-39-9	3,4-Dinitrotoluene	0% [e]	107%	0% [e]	58-131%

(a) All hits confirmed by reanalysis on a dissimilar column.
(b) Result is from Run# 3
(c) Elevated reporting limits due to matrix interference.
(d) Result is from Run# 2
(e) Not calculated due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated n
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4340	200	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Calcium	78400	1000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Cobalt	90.9	50	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Iron	12000	300	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Magnesium	22200	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Manganese	1350	15	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/15/02	04/16/02	IR	SW846 7470A	EPA 245.1
Nickel	216	40	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Potassium	<5000	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Sodium	<5000	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Zinc	187	20	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CB5017		
Lab Sample ID:	F12898-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015979.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CB5017		
Lab Sample ID:	F12898-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Plum Brook Ordnance WKS.		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	122% [a]		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Outside control limits; however sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated m
N = Indicates presumptive evidence of a con

Accutest Laboratories

Report of Analysis

Client Sample ID:	CB3047		
Lab Sample ID:	F12898-1A	**Date Sampled:**	04/12/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	Plum Brook Ordnance WKS.		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4340	200	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Calcium	78200	1000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Cobalt	91.3	50	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Iron	11900	300	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Magnesium	22100	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Manganese	1340	15	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	04/15/02	04/16/02	IR	SW846 7470A	EPA 245.1
Nickel	217	40	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Potassium	<5000	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Sodium	<5000	5000	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A
Zinc	185	20	ug/l	1	04/15/02	04/16/02	M	SW846 6010B	SW846 3010A

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-BS	G0015972.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	67-125
71-43-2	Benzene	25	27.3	109	75-125
75-27-4	Bromodichloromethane	25	22.4	90	75-125
75-25-2	Bromoform	25	25.9	104	72-125
108-90-7	Chlorobenzene	25	26.2	105	75-125
75-00-3	Chloroethane	25	26.2	105	58-136
67-66-3	Chloroform	25	26.9	108	75-125
75-15-0	Carbon disulfide	125	136	109	48-142
56-23-5	Carbon tetrachloride	25	29.7	119	75-136
75-34-3	1,1-Dichloroethane	25	27.3	109	75-125
75-35-4	1,1-Dichloroethylene	25	26.4	106	67-138
107-06-2	1,2-Dichloroethane	25	26.3	105	75-125
78-87-5	1,2-Dichloropropane	25	28.2	113	75-125
124-48-1	Dibromochloromethane	25	26.1	104	75-125
156-59-2	cis-1,2-Dichloroethyl	25	28.0	112	75-129
10061-01-5	cis-1,3-Dichloroprope	25	21.0	84	75-125
156-60-5	trans-1,2-Dichloroeth	25	27.2	109	73-125
10061-02-6	trans-1,3-Dichloropro	25	24.0	96	75-125
100-41-4	Ethylbenzene	25	27.3	109	68-135
591-78-6	2-Hexanone	125	124	99	68-125
108-10-1	4-Methyl-2-pentanone	125	108	86	75-125
74-83-9	Methyl bromide	25	21.8	87	59-146
74-87-3	Methyl chloride	25	27.1	108	50-142
75-09-2	Methylene chloride	25	26.5	106	69-125
78-93-3	Methyl ethyl ketone	125	127	102	70-125
100-42-5	Styrene	25	25.8	103	75-125
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-132
79-34-5	1,1,2,2-Tetrachloroet	25	24.9	100	75-125
79-00-5	1,1,2-Trichloroethane	25	25.2	101	75-125
127-18-4	Tetrachloroethylene	25	27.4	110	75-126
108-88-3	Toluene	25	27.3	109	75-125
79-01-6	Trichloroethylene	25	27.7	111	75-125
75-01-4	Vinyl chloride	25	25.2	101	60-147
1330-20-7	Xylene (total)	75	82.5	110	75-125

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-BS	G0015972.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12906-5DUP	G0015985.D	1	04/17/02	KW	n/a	n/a	VG500
F12906-5	G0015984.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Compound	F12906-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	37.3	J	43.1	J	14	15
71-43-2	Benzene	ND		ND		nc	15
75-27-4	Bromodichloromethane	3.1		3.2		3	15
75-25-2	Bromoform	ND		ND		nc	15
108-90-7	Chlorobenzene	ND		ND		nc	15
75-00-3	Chloroethane	ND		ND		nc	15
67-66-3	Chloroform	52.2		60.4		15	15
75-15-0	Carbon disulfide	ND		ND		nc	15
56-23-5	Carbon tetrachloride	ND		ND		nc	15
75-34-3	1,1-Dichloroethane	ND		ND		nc	15
75-35-4	1,1-Dichloroethylene	ND		ND		nc	15
107-06-2	1,2-Dichloroethane	ND		ND		nc	15
78-87-5	1,2-Dichloropropane	ND		ND		nc	15
124-48-1	Dibromochloromethane	ND		ND		nc	15
156-59-2	cis-1,2-Dichloroethyl	ND		ND		nc	15
10061-01-5	cis-1,3-Dichloroprope	ND		ND		nc	15
156-60-5	trans-1,2-Dichloroeth	ND		ND		nc	15
10061-02-6	trans-1,3-Dichloropro	ND		ND		nc	15
100-41-4	Ethylbenzene	ND		ND		nc	15
591-78-6	2-Hexanone	ND		ND		nc	15
108-10-1	4-Methyl-2-pentanone	ND		ND		nc	15
74-83-9	Methyl bromide	ND		ND		nc	15
74-87-3	Methyl chloride	ND		ND		nc	15
75-09-2	Methylene chloride	ND		ND		nc	15
78-93-3	Methyl ethyl ketone	ND		ND		nc	15
100-42-5	Styrene	ND		ND		nc	15
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	15
79-34-5	1,1,2,2-Tetrachloroet	ND		ND		nc	15
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	15
127-18-4	Tetrachloroethylene	0.99	J	1.1	J	11	15
108-88-3	Toluene	ND		ND		nc	15
79-01-6	Trichloroethylene	ND		ND		nc	15
75-01-4	Vinyl chloride	ND		ND		nc	15
1330-20-7	Xylene (total)	ND		ND		nc	15

Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12906-5DUP	G0015985.D	1	04/17/02	KW	n/a	n/a	VG500
F12906-5	G0015984.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Surrogate Recoveries	DUP	F12906-5	Limits
1868-53-7	Dibromofluoromethane	126%*	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	129%*	109%	80-120%
2037-26-5	Toluene-D8	102%	102%	80-120%
460-00-4	4-Bromofluorobenzene	102%	99%	80-120%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-MB	G0015973.D1		04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

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	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	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	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	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: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-MB	G0015973.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	80-120%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12898-2MS	G0015980.D		04/17/02	KW	n/a	n/a	VG500
F12898-2MSD	G0015981.D		04/17/02	KW	n/a	n/a	VG500
F12898-2	G0015979.D		04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Compound	F12898-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	156	125	146	117	7	61-125/15
71-43-2	Benzene	ND		25	26.5	106	30.4	122	14	75-125/15
75-27-4	Bromodichloromethane	ND		25	26.4	106	25.4	102	4	75-125/15
75-25-2	Bromoform	ND		25	26.0	104	25.4	102	2	66-125/15
108-90-7	Chlorobenzene	ND		25	25.9	104	25.9	104	0	75-125/15
75-00-3	Chloroethane	ND		25	29.0	116	28.5	114	2	53-125/15
67-66-3	Chloroform	ND		25	32.4	130*	32.7	131*	1	75-125/15
75-15-0	Carbon disulfide	ND		125	161	129	155	124	4	51-138/15
56-23-5	Carbon tetrachloride	ND		25	29.6	118	33.8	135*	13	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	31.6	126*	31.2	125	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	31.4	126	29.9	120	5	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	27.0	108	30.9	124	13	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.7	107	27.6	110	3	75-125/15
124-48-1	Dibromochloromethane	ND		25	26.0	104	25.6	102	2	75-125/15
156-59-2	cis-1,2-Dichloroethyl	ND		25	32.1	128	31.7	127	1	75-136/15
10061-01-5	cis-1,3-Dichloroprope	ND		25	24.8	99	24.2	97	2	71-125/15
156-60-5	trans-1,2-Dichloroeth	ND		25	31.4	126*	31.3	125	0	73-125/15
10061-02-6	trans-1,3-Dichloropro	ND		25	23.7	95	22.8	91	4	62-125/15
100-41-4	Ethylbenzene	ND		25	26.5	106	27.1	108	2	75-125/15
591-78-6	2-Hexanone	ND		125	127	102	121	97	5	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	128	102	124	99	3	75-125/15
74-83-9	Methyl bromide	ND		25	27.7	111	27.2	109	2	67-146/15
74-87-3	Methyl chloride	ND		25	29.3	117	29.4	118	0	47-160/15
75-09-2	Methylene chloride	ND		25	30.6	122	30.6	122	0	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	152	122	139	111	9	70-125/15
100-42-5	Styrene	ND		25	25.7	103	25.2	101	2	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	29.2	117	32.8	131	12	75-131/15
79-34-5	1,1,2,2-Tetrachloroet	ND		25	24.9	100	24.2	97	3	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	24.7	99	24.0	96	3	75-125/15
127-18-4	Tetrachloroethylene	ND		25	26.1	104	24.1	96	8	75-125/15
108-88-3	Toluene	ND		25	26.9	108	25.6	102	5	75-125/15
79-01-6	Trichloroethylene	ND		25	27.7	111	26.2	105	6	75-125/15
75-01-4	Vinyl chloride	ND		25	29.3	117	30.0	120	2	52-169/15
1330-20-7	Xylene (total)	ND		75	81.2	108	79.7	106	2	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12898-2MS	G0015980.D	1	04/17/02	KW	n/a	n/a	VG500
F12898-2MSD	G0015981.D	1	04/17/02	KW	n/a	n/a	VG500
F12898-2	G0015979.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12898-1, F12898-2

CAS No.	Surrogate Recoveries	MS	MSD	F12898-2	Limits
1868-53-7	Dibromofluoromethane	104%	125%*	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	109%	124%*	107%	80-120%
2037-26-5	Toluene-D8	103%	102%	122%*[a]	80-120%
460-00-4	4-Bromofluorobenzene	97%	98%	98%	80-120%

(a) Outside control limits; however sample is ND.

Instrument Performance Check (BFB)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG500-BFB
Lab File ID: G0015969.D
Instrument ID: GCMSG
Injection Date: 04/17/02
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27448	24.9		Pass
75	30.0 - 60.0% of mass 95	63888	57.9		Pass
95	Base peak, 100% relative abundance	110371	100.0		Pass
96	5.0 - 9.0% of mass 95	7728	7.0		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0a)	Pass
174	50.0 - 100.0% of mass 95	75947	68.8		Pass
175	5.0 - 9.0% of mass 174	6060	5.5	(8.0a)	Pass
176	95.0 - 101.0% of mass 174	74104	67.1	(97.6a)	Pass
177	5.0 - 9.0% of mass 176	4839	4.4	(6.5b)	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
VG500-CC491	G0015971.D	04/17/02	10:58	01:17	Continuing cal 40
VG500-BS	G0015972.D	04/17/02	11:29	01:48	Blank Spike
VG500-MB	G0015973.D	04/17/02	12:01	02:20	Method Blank
ZZZZZZ	G0015974.D	04/17/02	12:32	02:51	(unrelated sample)
ZZZZZZ	G0015975.D	04/17/02	13:03	03:22	(unrelated sample)
ZZZZZZ	G0015976.D	04/17/02	13:34	03:53	(unrelated sample)
F12898-1	G0015978.D	04/17/02	14:36	04:55	CB3047
F12898-2	G0015979.D	04/17/02	15:07	05:26	CB5017
F12898-2MS	G0015980.D	04/17/02	15:38	05:57	Matrix Spike
F12898-2MSD	G0015981.D	04/17/02	16:09	06:28	Matrix Spike Duplicate
ZZZZZZ	G0015983.D	04/17/02	17:12	07:31	(unrelated sample)
F12906-5	G0015984.D	04/17/02	17:43	08:02	(used for QC only; not part of job 1
F12906-5DUP	G0015985.D	04/17/02	18:14	08:33	Duplicate
ZZZZZZ	G0015986.D	04/17/02	18:45	09:04	(unrelated sample)
ZZZZZZ	G0015987.D	04/17/02	19:16	09:35	(unrelated sample)
ZZZZZZ	G0015988.D	04/17/02	19:47	10:06	(unrelated sample)
ZZZZZZ	G0015989.D	04/17/02	20:19	10:38	(unrelated sample)
ZZZZZZ	G0015990.D	04/17/02	20:50	11:09	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG491-BFB
Lab File ID: G0015802.D
Instrument ID: GCMSG
Injection Date: 04/08/02
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	37600	22.7		Pass
75	30.0 - 60.0% of mass 95	86099	52.0		Pass
95	Base peak, 100% relative abundance	165675	100.0		Pass
96	5.0 - 9.0% of mass 95	11417	6.9		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0)	Pass
174	50.0 - 100.0% of mass 95	122307	73.8		Pass
175	5.0 - 9.0% of mass 174	9111	5.5	(7.4)	Pass
176	95.0 - 101.0% of mass 174	118421	71.5	(96.8)	Pass
177	5.0 - 9.0% of mass 176	8806	5.3	(7.4)	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
VG491-IC491	G0015803.D	04/08/02	11:24	00:18	Initial cal 1
VG491-IC491	G0015804.D	04/08/02	11:56	00:50	Initial cal 5
VG491-IC491	G0015805.D	04/08/02	12:27	01:21	Initial cal 20
VG491-ICC491	G0015806.D	04/08/02	12:58	01:52	Initial cal 40
VG491-IC491	G0015807.D	04/08/02	13:30	02:24	Initial cal 70
VG491-IC491	G0015808.D	04/08/02	14:01	02:55	Initial cal 100
ZZZZZZ	G0015811.D	04/08/02	16:00	04:54	(unrelated sample)
ZZZZZZ	G0015812.D	04/08/02	16:32	05:26	(unrelated sample)
ZZZZZZ	G0015813.D	04/08/02	17:03	05:57	(unrelated sample)
ZZZZZZ	G0015814.D	04/08/02	17:35	06:29	(unrelated sample)
ZZZZZZ	G0015815.D	04/08/02	18:06	07:00	(unrelated sample)
ZZZZZZ	G0015816.D	04/08/02	18:38	07:32	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	VG500-CC491	**Injection Date:**	04/17/02
Lab File ID:	G0015971.D	**Injection Time:**	10:58
Instrument ID:	GCMSG	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1274963	7.78	989638	12.88	461684	17.29
Upper Limit[a]	2549926	8.28	1979276	13.38	923368	17.79
Lower Limit[b]	637482	7.28	494819	12.38	230842	16.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VG500-BS	1368002	7.79	872981	12.88	495210	17.29
VG500-MB	1165742	7.79	873549	12.88	486218	17.29
ZZZZZZ	1141569	7.79	831019	12.88	467013	17.29
ZZZZZZ	1113843	7.79	839327	12.88	469892	17.30
ZZZZZZ	1133947	7.80	833504	12.88	467498	17.29
F12898-1	1237523	7.80	828495	12.89	452994	17.30
F12898-2	1302843	7.80	806971	12.89	462325	17.30
F12898-2MS	1065733	7.80	815175	12.89	468500	17.31
F12898-2MSD	1093890	7.80	827967	12.89	471381	17.30
ZZZZZZ	1294439	7.80	827731	12.90	466345	17.30
F12906-5	1275048	7.80	835346	12.90	472114	17.31
F12906-5DUP	1085814	7.80	827348	12.89	455805	17.31
ZZZZZZ	1091388	7.80	838765	12.90	456952	17.30
ZZZZZZ	1084865	7.79	826868	12.89	461610	17.31
ZZZZZZ	1115622	7.80	846498	12.89	464780	17.30
ZZZZZZ	1082787	7.80	817673	12.89	449527	17.30
ZZZZZZ	1091589	7.80	802092	12.89	455605	17.30

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12898-1	G0015978.D	110.0	116.0	104.0	102.0
F12898-2	G0015979.D	104.0	107.0	122.0*	98.0
F12898-2MS	G0015980.D	104.0	109.0	103.0	97.0
F12898-2MSD	G0015981.D	125.0*	124.0*	102.0	98.0
F12906-5DUP	G0015985.D	126.0*	129.0*	102.0	102.0
VG500-BS	G0015972.D	100.0	104.0	101.0	97.0
VG500-MB	G0015973.D	107.0	104.0	104.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

(a) Outside control limits; however sample is ND.

Initial Calibration Summary

Job Number: F12898 **Sample:** VG491-ICC491
Account: ITTNKNOX IT Corporation **Lab FileID:** G0015806.D
Project: Plum Brook Ordnance WKS.

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.275	0.275	0.364	0.308	0.289	0.268	0.296	12.11
3)	P	Chloromethane		0.374	0.422	0.389	0.319	0.301	0.361	13.95
4)	C	Vinyl Chloride	0.313	0.327	0.373	0.362	0.289	0.271	0.323	12.40
5)		Bromomethane	0.259	0.233	0.224	0.220	0.172	0.169	0.213	16.72
6)		Chloroethane	0.213	0.199	0.222	0.207	0.170	0.164	0.196	12.01
7)		Trichlorofluorometh	0.356	0.344	0.411	0.394	0.346	0.339	0.365	8.26
8)		Acrolein		0.028	0.031	0.032	0.026	0.025	0.028	10.93
9)	C	1,1-Dichloroethene	0.484	0.434	0.445	0.435	0.374	0.349	0.420	11.81
10)		Freon 113	0.262	0.242	0.273	0.266	0.227	0.208	0.246	10.28
11)		Acetone		0.094	0.103	0.097	0.083	0.078	0.091	11.34
12)		Iodomethane		0.395	0.456	0.412	0.358	0.334	0.391	12.15
13)		Carbon Disulfide	0.839	0.783	0.883	0.810	0.686	0.638	0.773	12.10
14)		Methyl acetate		0.204	0.250	0.201	0.200	0.194	0.210	10.97
15)		Methylene Chloride		0.465	0.436	0.354	0.354	0.334	0.389	14.97
16)		Tert Butyl Alcohol		0.028	0.035	0.028	0.027	0.028	0.029	10.92
17)		trans-1,2-Dichloroe	0.437	0.433	0.462	0.387	0.378	0.356	0.409	10.06
18)		Acrylonitrile		0.088	0.106	0.087	0.084	0.082	0.089	10.38
19)		Methyl Tert Butyl E		0.817	0.955	0.762	0.762	0.721	0.803	11.38
20)		Hexane	0.377	0.360	0.407	0.315	0.330	0.299	0.348	11.67
21)	P	1,1-Dichloroethane	0.518	0.523	0.548	0.448	0.458	0.427	0.487	10.06
22)		Vinyl acetate		0.583	0.614	0.514	0.511	0.477	0.540	10.51
23)		Di-isopropyl ether		1.126	1.041	0.916	0.943	0.866	0.978	10.66
24)		ETBE		1.066	0.923	0.891	0.914	0.856	0.930	8.64
25)		2,2-Dichloropropane		0.346	0.299	0.290	0.282	0.251	0.293	11.69
26)		cis-1,2-Dichloroeth		0.294	0.274	0.264	0.267	0.242	0.268	6.92
27)		2-Butanone		0.127	0.134	0.125	0.126	0.119	0.126	4.15
28)		Bromochloromethane	0.140	0.167	0.154	0.147	0.146	0.140	0.149	6.92
29)		Tetrahydrofuran		0.101	0.094	0.086	0.087	0.083	0.090	7.91
30)	C	Chloroform		0.574	0.504	0.486	0.492	0.450	0.501	9.07
31)		1,1,1-Trichloroetha	0.473	0.441	0.408	0.381	0.390	0.370	0.411	9.60
32)	S	Dibromofluoromethan	0.302	0.303	0.308	0.307	0.311	0.312	0.307	1.40
33)		Cyclohexane		0.475	0.445	0.427	0.441	0.414	0.440	5.26
34)		1,1-Dichloropropene		0.379	0.338	0.323	0.341	0.325	0.341	6.56
35)		Carbon Tetrachlorid	0.352	0.355	0.356	0.348	0.358	0.340	0.351	1.94
36)	S	1,2-Dichloroethane-	0.413	0.408	0.420	0.411	0.414	0.435	0.417	2.33
37)		Benzene		1.045	0.911	0.868	0.886	0.826	0.907	9.15
38)		1,2-Dichloroethane		0.518	0.465	0.454	0.456	0.433	0.465	6.88
39)		TAME		0.893	0.828	0.790	0.803	0.754	0.813	6.38
40)		Trichloroethene		0.308	0.271	0.268	0.276	0.262	0.277	6.52
41)		Methylcyclohexane	0.459	0.423	0.393	0.388	0.396	0.373	0.405	7.68
42)	C	1,2-Dichloropropane		0.323	0.268	0.259	0.264	0.248	0.272	10.80
43)		Dibromomethane	0.230	0.189	0.190	0.184	0.188	0.175	0.193	9.92
44)		1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003	9.91
45)		Bromodichloromethan	0.458	0.402	0.384	0.376	0.405	0.376	0.400	7.76
46)		2-Nitropropane		0.082	0.098	0.099	0.104	0.100	0.097	8.63

Initial Calibration Summary

Job Number: F12898 **Sample:** VG491-ICC491
Account: ITTNKNOX IT Corporation **Lab FileID:** G0015806.D
Project: Plum Brook Ordnance WKS.

47)		2-Chloroethyl vinyl		0.190	0.189	0.179	0.180	0.166	0.181	5.32
48)		4-Methyl-2-pentanon		0.232	0.295	0.274	0.279	0.262	0.269	8.66
49)		cis-1,3-Dichloropro		0.479	0.451	0.437	0.458	0.423	0.450	4.76
50)	I	Chlorobenzene-d5	----------	ISTD	----------					
51)	S	Toluene-d8	1.264	1.252	1.284	1.267	1.294	1.286	1.274	1.26
52)	C	Toluene		1.441	1.290	1.235	1.272	1.173	1.282	7.74
53)		trans-1,3-Dichlorop	0.678	0.603	0.611	0.561	0.597	0.557	0.601	7.26
54)		1,1,2-Trichloroetha	0.324	0.290	0.287	0.270	0.275	0.262	0.285	7.75
55)		Tetrachloroethene		0.395	0.366	0.347	0.350	0.317	0.355	8.07
56)		2-hexanone		0.253	0.275	0.260	0.268	0.251	0.261	3.88
57)		1,3-Dichloropropane		0.613	0.581	0.541	0.555	0.514	0.561	6.74
58)		Dibromochloromethan	0.419	0.336	0.338	0.338	0.358	0.344	0.356	9.11
59)		1,2-Dibromoethane		0.334	0.330	0.333	0.331	0.317	0.329	2.13
60)		1-Chlorohexane		0.538	0.466	0.450	0.463	0.428	0.469	8.75
61)	P	Chlorobenzene		1.012	0.876	0.838	0.843	0.790	0.872	9.68
62)		1,1,1,2-Tetrachloro	0.415	0.361	0.366	0.333	0.341	0.321	0.356	9.40
63)	C	Ethylbenzene		1.651	1.522	1.428	1.460	1.340	1.480	7.82
64)		m,p-Xylene		1.354	1.259	1.150	1.182	1.075	1.204	8.85
65)		o-Xylene		1.435	1.378	1.250	1.272	1.183	1.303	7.80
66)		Styrene	1.142	1.007	0.975	0.896	0.927	0.873	0.970	10.07
67)	P	Bromoform	0.242	0.178	0.230	0.221	0.246	0.240	0.226	11.17
68)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
69)		Isopropylbenzene		2.602	2.485	2.371	2.479	2.360	2.459	4.03
70)		Cyclohexanone		0.025	0.031	0.026	0.030	0.029	0.028	8.64
71)	S	4-Bromofluorobenzen	1.109	1.091	1.076	1.120	1.113	1.156	1.111	2.44
72)		Bromobenzene		0.800	0.730	0.695	0.721	0.674	0.724	6.61
73)	P	1,1,2,2-Tetrachloro		0.806	0.832	0.760	0.788	0.761	0.789	3.90
74)		1,2,3-Trichloroprop		0.240	0.248	0.246	0.244	0.241	0.244	1.52
75)		trans-1,4-Dichloro-		0.311	0.310	0.313	0.323	0.314	0.314	1.64
76)		n-Propylbenzene		3.493	3.227	3.142	3.179	2.950	3.198	6.11
77)		2-Chlorotoluene		2.447	2.121	2.027	2.123	1.980	2.139	8.53
78)		4-Chlorotoluene		2.829	2.452	2.395	2.400	2.288	2.473	8.41
79)		1,3,5-Trimethylbenz		2.450	2.267	2.227	2.231	2.122	2.260	5.29
80)		sec-Butylbenzene	3.182	2.945	2.632	2.593	2.682	2.529	2.760	9.10
81)		1,3-Dichlorobenzene		1.476	1.314	1.283	1.332	1.246	1.330	6.62
82)		4-Isopropyltoluene	2.800	2.489	2.273	2.221	2.307	2.155	2.374	9.98
83)		1,4-Dichlorobenzene		1.463	1.332	1.294	1.356	1.261	1.341	5.74
84)		tert-Butylbenzene		1.636	1.552	1.511	1.573	1.458	1.546	4.32
85)		n-Butylbenzene	2.710	2.389	2.297	2.267	2.309	2.205	2.363	7.63
86)		1,2-Dichlorobenzene		1.404	1.272	1.232	1.293	1.218	1.284	5.73
87)		1,2,4-Trimethylbenz		2.576	2.430	2.343	2.355	2.200	2.381	5.76
88)		1,2-Dibromo-3-Chlor		0.138	0.176	0.173	0.188	0.186	0.172	11.70
89)		1,2,4-Trichlorobenz	1.185	1.037	0.982	0.952	0.998	0.893	1.008	9.87
90)		Hexachlorobutadiene	0.455	0.432	0.407	0.402	0.383	0.371	0.409	7.64
91)		Naphthalene		2.243	2.332	2.170	2.249	2.141	2.227	3.36
92)		1,2,3-Trichlorobenz	1.099	0.991	0.894	0.892	0.907	0.854	0.939	9.61

Average % RSD = 8.1

(#) = Out of Range

624.M Wed Apr 10 13:15:47 2002 RP1

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG500-CC491
Lab FileID: G0015971.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041702\G0015971.D
Acq On : 17 Apr 2002 10:58 am
Sample : CC491-40
Misc : ms1455,vg500,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 1
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:04:50 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)
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00
2		Dichlorodifluoromethane	0.296	0.309	-4.4	87	0.00
3	P	Chloromethane	0.361	0.352	2.5	79	0.01
4	C	Vinyl Chloride	0.323	0.283	12.4	68	0.00
5		Bromomethane	0.213	0.204	4.2	81	0.02
6		Chloroethane	0.196	0.201	-2.6	84	0.02
7		Trichlorofluoromethane	0.365	0.410	-12.3	91	-0.02
8		Acrolein	0.028	0.019	32.1#	52	0.00
9	C	1,1-Dichloroethene	0.420	0.444	-5.7	89	0.00
10		Freon 113	0.246	0.257	-4.5	84	0.01
11		Acetone	0.091	0.093	-2.2	83	0.01
12		Iodomethane	0.391	0.367	6.1	78	0.00
13		Carbon Disulfide	0.773	0.815	-5.4	88	0.00
14		Methyl acetate	0.210	0.224	-6.7	97	0.00
15		Methylene Chloride	0.389	0.431	-10.8	106	0.00
16		Tert Butyl Alcohol	0.029	0.027	6.9	84	0.04
17		trans-1,2-Dichloroethene	0.409	0.452	-10.5	102	0.00
18		Acrylonitrile	0.089	0.072	19.1	72	0.00
19		Methyl Tert Butyl Ether	0.803	0.838	-4.4	96	0.00
20		Hexane	0.348	0.356	-2.3	98	0.00
21	P	1,1-Dichloroethane	0.487	0.528	-8.4	103	0.00
22		Vinyl acetate	0.540	0.564	-4.4	96	0.01
23		Di-isopropyl ether	0.978	1.013	-3.6	96	0.00
24		ETBE	0.930	0.940	-1.1	92	0.00
25		2,2-Dichloropropane	0.293	0.346	-18.1	104	0.00
26		cis-1,2-Dichloroethene	0.268	0.297	-10.8	98	0.00
27		2-Butanone	0.126	0.133	-5.6	93	0.01
28		Bromochloromethane	0.149	0.158	-6.0	94	0.01
29		Tetrahydrofuran	0.090	0.086	4.4	87	0.01
30	C	Chloroform	0.501	0.557	-11.2	100	0.00
31		1,1,1-Trichloroethane	0.411	0.447	-8.8	102	0.00
32	S	Dibromofluoromethane	0.307	0.310	-1.0	88	0.01
33		Cyclohexane	0.440	0.445	-1.1	91	0.00
34		1,1-Dichloropropene	0.341	0.393	-15.2	106	0.00
35		Carbon Tetrachloride	0.351	0.416	-18.5	104	0.01
36	S	1,2-Dichloroethane-d4	0.417	0.446	-7.0	95	0.01
37		Benzene	0.907	0.988	-8.9	99	0.00
38		1,2-Dichloroethane	0.465	0.553	-18.9	106	0.01
39		TAME	0.813	0.836	-2.8	92	0.01
40		Trichloroethene	0.277	0.306	-10.5	100	0.00
41		Methylcyclohexane	0.405	0.425	-4.9	95	0.00
42	C	1,2-Dichloropropane	0.272	0.302	-11.0	101	0.00

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: VG500-CC491
Lab FileID: G0015971.D

43		Dibromomethane	0.193	0.203	-5.2	96	0.00
44		1,4-Dioxane	0.003	0.002	33.3#	72	0.03
45		Bromodichloromethane	0.400	0.442	-10.5	102	0.00
46		2-Nitropropane	0.097	0.108	-11.3	95	0.01
47		2-Chloroethyl vinyl ether	0.181	0.196	-8.3	95	0.00
48		4-Methyl-2-pentanone	0.269	0.295	-9.7	94	0.01
49		cis-1,3-Dichloropropene	0.450	0.504	-12.0	100	0.01
50	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.01
51	S	Toluene-d8	1.274	1.274	0.0	88	0.01
52	C	Toluene	1.282	1.391	-8.5	99	0.01
53		trans-1,3-Dichloropropene	0.601	0.659	-9.7	103	0.01
54		1,1,2-Trichloroethane	0.285	0.305	-7.0	99	0.01
55		Tetrachloroethene	0.355	0.368	-3.7	93	0.01
56		2-hexanone	0.261	0.280	-7.3	94	0.01
57		1,3-Dichloropropane	0.561	0.614	-9.4	100	0.01
58		Dibromochloromethane	0.356	0.405	-13.8	105	0.00
59		1,2-Dibromoethane	0.329	0.372	-13.1	98	0.01
60		1-Chlorohexane	0.469	0.512	-9.2	100	0.01
61	P	Chlorobenzene	0.872	0.930	-6.7	97	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.383	-7.6	101	0.01
63	C	Ethylbenzene	1.480	1.628	-10.0	100	0.01
64		m,p-Xylene	1.204	1.340	-11.3	102	0.01
65		o-Xylene	1.303	1.437	-10.3	101	0.01
66		Styrene	0.970	1.037	-6.9	102	0.01
67	P	Bromoform	0.226	0.213	5.8	84	0.01
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.01
69		Isopropylbenzene	2.459	2.598	-5.7	83	0.01
70		Cyclohexanone	0.028	0.020	28.6#	58	0.00
71	S	4-Bromofluorobenzene	1.111	1.098	1.2	75	0.01
72		Bromobenzene	0.724	0.726	-0.3	79	0.01
73	P	1,1,2,2-Tetrachloroethane	0.789	0.832	-5.4	83	0.00
74		1,2,3-Trichloropropane	0.244	0.267	-9.4	82	0.00
75		trans-1,4-Dichloro-2-Butene	0.314	0.206	34.4#	50	0.00
76		n-Propylbenzene	3.198	3.414	-6.8	83	0.01
77		2-Chlorotoluene	2.139	2.258	-5.6	85	0.01
78		4-Chlorotoluene	2.473	2.654	-7.3	84	0.01
79		1,3,5-Trimethylbenzene	2.260	2.450	-8.4	84	0.01
80		sec-Butylbenzene	2.760	2.835	-2.7	83	0.01
81		1,3-Dichlorobenzene	1.330	1.361	-2.3	81	0.01
82		4-Isopropyltoluene	2.374	2.421	-2.0	83	0.01
83		1,4-Dichlorobenzene	1.341	1.371	-2.2	81	0.00
84		tert-Butylbenzene	1.546	1.668	-7.9	84	0.01
85		n-Butylbenzene	2.363	2.526	-6.9	85	0.01
86		1,2-Dichlorobenzene	1.284	1.325	-3.2	82	0.01
87		1,2,4-Trimethylbenzene	2.381	2.507	-5.3	81	0.01
88		1,2-Dibromo-3-Chloropropane	0.172	0.198	-15.1	87	0.00
89		1,2,4-Trichlorobenzene	1.008	0.958	5.0	76	0.00
90		Hexachlorobutadiene	0.409	0.392	4.2	74	0.01
91		Naphthalene	2.227	2.277	-2.2	80	0.01
92		1,2,3-Trichlorobenzene	0.939	0.900	4.2	77	0.01

Average % D = 8.4

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G0015806.D 624.M Thu Apr 18 09:25:02 2002 RP1

GC/MS Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	20.7	41*	60-125
59-50-7	4-Chloro-3-methyl phe	50	31.1	62*	70-125
120-83-2	2,4-Dichlorophenol	50	22.6	45*	68-125
105-67-9	2,4-Dimethylphenol	50	28.0	56	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	30.7	61	51-125
	3&4-Methylphenol	100	52.1	52	46-125
88-75-5	2-Nitrophenol	50	22.0	44*	64-125
100-02-7	4-Nitrophenol	50	2.8	6*	17-125
87-86-5	Pentachlorophenol	50	11.8	24*	60-125
108-95-2	Phenol	50	13.5	27	16-125
95-95-4	2,4,5-Trichlorophenol	50	23.2	46*	74-125
88-06-2	2,4,6-Trichlorophenol	50	20.0	40*	70-125
83-32-9	Acenaphthene	50	44.9	90	70-125
208-96-8	Acenaphthylene	50	52.6	105	75-125
120-12-7	Anthracene	50	50.1	100	75-125
56-55-3	Benzo(a)anthracene	50	50.0	100	75-125
50-32-8	Benzo(a)pyrene	50	51.3	103	75-125
205-99-2	Benzo(b)fluoranthene	50	46.9	94	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.0	108	57-135
207-08-9	Benzo(k)fluoranthene	50	48.2	96	75-125
101-55-3	4-Bromophenyl phenyl	50	47.9	96	74-125
85-68-7	Butyl benzyl phthalat	50	49.2	98	38-134
100-51-6	Benzyl Alcohol	50	36.8	74	30-125
91-58-7	2-Chloronaphthalene	50	46.2	92	59-125
106-47-8	4-Chloroaniline	50	46.3	93	31-125
86-74-8	Carbazole	50	49.2	98	75-125
218-01-9	Chrysene	50	47.9	96	75-125
111-91-1	bis(2-Chloroethoxy)me	50	43.1	86	64-125
111-44-4	bis(2-Chloroethyl)eth	50	41.9	84	62-125
108-60-1	bis(2-Chloroisopropyl	50	45.7	91	60-125
7005-72-3	4-Chlorophenyl phenyl	50	49.0	98	75-125
95-50-1	1,2-Dichlorobenzene	50	40.3	81	35-125
541-73-1	1,3-Dichlorobenzene	50	37.3	75	30-125
106-46-7	1,4-Dichlorobenzene	50	38.1	76	32-125

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	47.9	96	73-125
606-20-2	2,6-Dinitrotoluene	50	49.6	99	75-125
91-94-1	3,3'-Dichlorobenzidir	50	54.0	108	55-125
53-70-3	Dibenzo(a,h)anthracer	50	53.0	106	64-130
132-64-9	Dibenzofuran	50	44.6	89	73-125
84-74-2	Di-n-butyl phthalate	50	49.7	99	47-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	52-125
84-66-2	Diethyl phthalate	50	48.5	97	59-125
131-11-3	Dimethyl phthalate	50	48.9	98	24-142
117-81-7	bis(2-Ethylhexyl)phtl	50	52.5	105	71-125
206-44-0	Fluoranthene	50	49.9	100	75-125
86-73-7	Fluorene	50	48.4	97	75-125
118-74-1	Hexachlorobenzene	50	47.9	96	74-125
87-68-3	Hexachlorobutadiene	50	35.4	71	22-125
77-47-4	Hexachlorocyclopentad	50	26.2	52	10-125
67-72-1	Hexachloroethane	50	36.4	73	23-125
193-39-5	Indeno(1,2,3-cd)pyrer	50	52.8	106	53-130
78-59-1	Isophorone	50	43.8	88	63-125
91-57-6	2-Methylnaphthalene	50	41.0	82	51-125
88-74-4	2-Nitroaniline	50	48.1	96	75-125
99-09-2	3-Nitroaniline	50	48.1	96	62-125
100-01-6	4-Nitroaniline	50	51.3	103	67-125
91-20-3	Naphthalene	50	42.6	85	53-125
98-95-3	Nitrobenzene	50	43.9	88	67-125
621-64-7	N-Nitroso-di-n-propyl	50	44.4	89	61-125
86-30-6	N-Nitrosodiphenylamir	50	52.3	105	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	46.8	94	67-125
120-82-1	1,2,4-Trichlorobenzer	50	41.6	83	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	28%	20-125%
4165-62-2	Phenol-d5	22%	10-125%
118-79-6	2,4,6-Tribromophenol	51%	35-140%

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS[a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	87%	46-125%
1718-51-0	Terphenyl-d14	98%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	23.1	46*	60-125
59-50-7	4-Chloro-3-methyl phe	50	35.5	71	70-125
120-83-2	2,4-Dichlorophenol	50	25.7	51*	68-125
105-67-9	2,4-Dimethylphenol	50	24.3	49	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	33.6	67	51-125
	3&4-Methylphenol	100	58.4	58	46-125
88-75-5	2-Nitrophenol	50	25.2	50*	64-125
100-02-7	4-Nitrophenol	50	3.1	6*	17-125
87-86-5	Pentachlorophenol	50	11.3	23*	60-125
108-95-2	Phenol	50	15.0	30	16-125
95-95-4	2,4,5-Trichlorophenol	50	26.3	53*	74-125
88-06-2	2,4,6-Trichlorophenol	50	22.1	44*	70-125
83-32-9	Acenaphthene	50	48.7	97	70-125
208-96-8	Acenaphthylene	50	56.6	113	75-125
120-12-7	Anthracene	50	56.0	112	75-125
56-55-3	Benzo(a)anthracene	50	54.4	109	75-125
50-32-8	Benzo(a)pyrene	50	57.9	116	75-125
205-99-2	Benzo(b)fluoranthene	50	54.2	108	75-125
191-24-2	Benzo(g,h,i)perylene	50	58.2	116	57-135
207-08-9	Benzo(k)fluoranthene	50	54.6	109	75-125
101-55-3	4-Bromophenyl phenyl	50	52.6	105	74-125
85-68-7	Butyl benzyl phthalat	50	53.2	106	38-134
100-51-6	Benzyl Alcohol	50	42.1	84	30-125
91-58-7	2-Chloronaphthalene	50	50.8	102	59-125
106-47-8	4-Chloroaniline	50	52.4	105	31-125
86-74-8	Carbazole	50	55.0	110	75-125
218-01-9	Chrysene	50	52.7	105	75-125
111-91-1	bis(2-Chloroethoxy)me	50	48.6	97	64-125
111-44-4	bis(2-Chloroethyl)eth	50	47.9	96	62-125
108-60-1	bis(2-Chloroisopropyl	50	50.6	101	60-125
7005-72-3	4-Chlorophenyl phenyl	50	52.4	105	75-125
95-50-1	1,2-Dichlorobenzene	50	44.8	90	35-125
541-73-1	1,3-Dichlorobenzene	50	40.9	82	30-125
106-46-7	1,4-Dichlorobenzene	50	42.5	85	32-125

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	54.2	108	73-125
606-20-2	2,6-Dinitrotoluene	50	55.0	110	75-125
91-94-1	3,3'-Dichlorobenzidir	50	57.5	115	55-125
53-70-3	Dibenzo(a,h)anthracer	50	57.2	114	64-130
132-64-9	Dibenzofuran	50	48.7	97	73-125
84-74-2	Di-n-butyl phthalate	50	54.4	109	47-140
117-84-0	Di-n-octyl phthalate	50	51.2	102	52-125
84-66-2	Diethyl phthalate	50	52.2	104	59-125
131-11-3	Dimethyl phthalate	50	52.9	106	24-142
117-81-7	bis(2-Ethylhexyl)phtl	50	51.7	103	71-125
206-44-0	Fluoranthene	50	55.2	110	75-125
86-73-7	Fluorene	50	52.6	105	75-125
118-74-1	Hexachlorobenzene	50	54.3	109	74-125
87-68-3	Hexachlorobutadiene	50	39.3	79	22-125
77-47-4	Hexachlorocyclopentac	50	30.5	61	10-125
67-72-1	Hexachloroethane	50	40.4	81	23-125
193-39-5	Indeno(1,2,3-cd)pyrer	50	57.1	114	53-130
78-59-1	Isophorone	50	49.6	99	63-125
91-57-6	2-Methylnaphthalene	50	45.7	91	51-125
88-74-4	2-Nitroaniline	50	53.4	107	75-125
99-09-2	3-Nitroaniline	50	54.0	108	62-125
100-01-6	4-Nitroaniline	50	57.0	114	67-125
91-20-3	Naphthalene	50	48.9	98	53-125
98-95-3	Nitrobenzene	50	50.1	100	67-125
621-64-7	N-Nitroso-di-n-propyl	50	50.7	101	61-125
86-30-6	N-Nitrosodiphenylamir	50	58.1	116	75-125
85-01-8	Phenanthrene	50	53.4	107	75-125
129-00-0	Pyrene	50	52.1	104	67-125
120-82-1	1,2,4-Trichlorobenzer	50	46.5	93	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	20-125%
4165-62-2	Phenol-d5	25%	10-125%
118-79-6	2,4,6-Tribromophenol	56%	35-140%

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS[a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	96%	46-125%
1718-51-0	Terphenyl-d14	106%	49-126%

(a) Recovery within control limits in MS/MSD.

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	25	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: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	46%	20-125%
4165-62-2	Phenol-d5	31%	10-125%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	77%	35-140%
4165-60-0	Nitrobenzene-d5	69%	46-125%
321-60-8	2-Fluorobiphenyl	68%	46-125%
1718-51-0	Terphenyl-d14	88%	49-126%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	25	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: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	46%	20-125%
4165-62-2	Phenol-d5	32%	10-125%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	79%	35-140%
4165-60-0	Nitrobenzene-d5	70%	46-125%
321-60-8	2-Fluorobiphenyl	66%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	25	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: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

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	47%	20-125%
4165-62-2	Phenol-d5	32%	10-125%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	81%	35-140%
4165-60-0	Nitrobenzene-d5	72%	46-125%
321-60-8	2-Fluorobiphenyl	70%	46-125%
1718-51-0	Terphenyl-d14	94%	49-126%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	89.7	90	83.3	83	7	59-125/20
59-50-7	4-Chloro-3-methyl phe	ND		100	91.3	91	86.1	86	6	72-125/20
120-83-2	2,4-Dichlorophenol	ND		100	94.5	95	89.3	89	6	65-125/20
105-67-9	2,4-Dimethylphenol	ND		100	57.7	58	57.2	57	1	37-125/20
51-28-5	2,4-Dinitrophenol	ND		100	47.4	47	68.8	69	37	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		100	78.1	78	80.2	80	3	54-125/20
95-48-7	2-Methylphenol	ND		100	88.7	89	85.0	85	4	57-125/20
	3&4-Methylphenol	ND		200	174	87	164	82	6	55-125/20
88-75-5	2-Nitrophenol	ND		100	95.1	95	88.5	89	7	67-125/20
100-02-7	4-Nitrophenol	ND		100	57.1	57	59.1	59	3	41-125/23
87-86-5	Pentachlorophenol	ND		100	74.9	75	68.6	69	9	67-126/20
108-95-2	Phenol	ND		100	67.6	68	65.2	65	4	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		100	99.7	100	91.8	92	8	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		100	94.3	94	87.7	88	7	70-125/20
83-32-9	Acenaphthene	ND		100	95.5	96	89.3	89	7	74-125/20
208-96-8	Acenaphthylene	ND		100	112	112	105	105	6	75-125/20
120-12-7	Anthracene	ND		100	103	103	97.4	97	6	75-125/20
56-55-3	Benzo(a)anthracene	ND		100	99.6	100	93.8	94	6	75-125/20
50-32-8	Benzo(a)pyrene	ND		100	105	105	99.6	100	5	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		100	98.0	98	94.1	94	4	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		100	107	107	99.5	100	7	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		100	99.8	100	95.2	95	5	75-125/20
101-55-3	4-Bromophenyl phenyl	ND		100	100	100	95.8	96	4	73-125/20
85-68-7	Butyl benzyl phthalat	ND		100	95.8	96	89.8	90	6	66-125/20
100-51-6	Benzyl Alcohol	ND		100	92.1	92	87.2	87	5	53-125/20
91-58-7	2-Chloronaphthalene	ND		100	99.0	99	96.0	96	3	64-125/20
106-47-8	4-Chloroaniline	ND		100	91.1	91	85.1	85	7	44-125/20
86-74-8	Carbazole	ND		100	103	103	96.5	97	7	75-125/20
218-01-9	Chrysene	ND		100	97.8	98	89.8	90	9	75-125/20
111-91-1	bis(2-Chloroethoxy)me	ND		100	95.6	96	89.6	90	6	62-125/20
111-44-4	bis(2-Chloroethyl)eth	ND		100	94.0	94	89.9	90	4	61-125/20
108-60-1	bis(2-Chloroisopropyl	ND		100	99.8	100	94.5	95	5	56-125/22
7005-72-3	4-Chlorophenyl phenyl	ND		100	99.2	99	93.1	93	6	75-125/20
95-50-1	1,2-Dichlorobenzene	ND		100	86.3	86	82.7	83	4	39-125/20
541-73-1	1,3-Dichlorobenzene	ND		100	80.2	80	76.8	77	4	36-125/20
106-46-7	1,4-Dichlorobenzene	ND		100	82.7	83	79.2	79	4	39-125/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Compound	F12899-2 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		100	99.5	100	94.1	94	6	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		100	102	102	96.7	97	5	75-125/20
91-94-1	3,3'-Dichlorobenzidir	ND		100	99.8	100	90.6	91	10	20-125/29
53-70-3	Dibenzo(a,h)anthracer	ND		100	102	102	95.3	95	7	64-127/20
132-64-9	Dibenzofuran	ND		100	94.9	95	90.0	90	5	73-125/20
84-74-2	Di-n-butyl phthalate	ND		100	98.3	98	93.8	94	5	71-125/20
117-84-0	Di-n-octyl phthalate	ND		100	96.4	96	85.9	86	12	66-125/30
84-66-2	Diethyl phthalate	ND		100	95.4	95	89.0	89	7	64-125/20
131-11-3	Dimethyl phthalate	ND		100	99.6	100	92.4	92	7	32-139/20
117-81-7	bis(2-Ethylhexyl)phtl	ND		100	101	101	89.2	89	12	74-125/20
206-44-0	Fluoranthene	ND		100	102	102	93.7	94	8	75-125/20
86-73-7	Fluorene	ND		100	102	102	94.2	94	8	75-125/20
118-74-1	Hexachlorobenzene	ND		100	98.8	99	96.1	96	3	75-125/20
87-68-3	Hexachlorobutadiene	ND		100	78.8	79	75.4	75	4	26-125/21
77-47-4	Hexachlorocyclopentac	ND		100	58.9	59	72.3	72	20	18-125/27
67-72-1	Hexachloroethane	ND		100	78.3	78	76.5	77	2	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrer	ND		100	105	105	96.5	97	8	54-125/20
78-59-1	Isophorone	ND		100	97.0	97	90.2	90	7	62-125/20
91-57-6	2-Methylnaphthalene	ND		100	90.9	91	84.6	85	7	58-125/20
88-74-4	2-Nitroaniline	ND		100	98.7	99	94.0	94	5	67-125/20
99-09-2	3-Nitroaniline	ND		100	85.0	85	76.0	76	11	53-125/20
100-01-6	4-Nitroaniline	ND		100	100	100	92.3	92	8	63-125/20
91-20-3	Naphthalene	ND		100	94.1	94	91.2	91	3	55-125/20
98-95-3	Nitrobenzene	ND		100	98.2	98	94.1	94	4	63-125/20
621-64-7	N-Nitroso-di-n-propyl	ND		100	95.1	95	88.9	89	7	58-125/20
86-30-6	N-Nitrosodiphenylamir	ND		100	109	109	102	102	7	75-125/20
85-01-8	Phenanthrene	ND		100	99.0	99	93.1	93	6	75-125/20
129-00-0	Pyrene	ND		100	99.1	99	89.6	90	10	67-125/20
120-82-1	1,2,4-Trichlorobenzer	ND		100	91.6	92	87.2	87	5	45-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
367-12-4	2-Fluorophenol	79%	74%	49%	44%	20-125%
4165-62-2	Phenol-d5	62%	61%	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	97%	89%	84%	82%	35-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12898-1

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
4165-60-0	Nitrobenzene-d5	95%	88%	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	94%	87%	77%	73%	46-125%
1718-51-0	Terphenyl-d14	98%	90%	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW528-DFTPP
Lab File ID: W009555.D
Instrument ID: GCMSW
Injection Date: 04/24/02
Injection Time: 15:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97809	57.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0[a])	Pass
69	Mass 69 relative abundance	68655	40.1		Pass
70	Less than 2.0% of mass 69	347	0.2	(0.51[a])	Pass
127	40.0 - 60.0% of mass 198	79722	46.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	171025	100.0		Pass
199	5.0 - 9.0% of mass 198	11119	6.5		Pass
275	10.0 - 30.0% of mass 198	33556	19.6		Pass
365	1.0 - 100.0% of mass 198	3085	1.8		Pass
441	Present, but less than mass 443	18476	10.8	(78.9[b])	Pass
442	40.0 - 100.0% of mass 198	122253	71.5		Pass
443	17.0 - 23.0% of mass 442	23527	13.8	(19.2[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
SW528-CC518	W009556.D	04/24/02	15:27	00:18	Continuing cal 75
OP4993-BS	W009557.D	04/24/02	15:57	00:48	Blank Spike
OP4993-MB	W009558.D	04/24/02	16:27	01:18	Method Blank
OP4993-MS	W009559.D	04/24/02	16:57	01:48	Matrix Spike
OP4993-MSD	W009560.D	04/24/02	17:28	02:19	Matrix Spike Duplicate
F12898-1	W009561.D	04/24/02	17:58	02:49	CB3047
ZZZZZZ	W009562.D	04/24/02	18:28	03:19	(unrelated sample)
ZZZZZZ	W009563.D	04/24/02	18:58	03:49	(unrelated sample)
ZZZZZZ	W009564.D	04/24/02	19:28	04:19	(unrelated sample)
ZZZZZZ	W009565.D	04/24/02	19:58	04:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-DFTPP
Lab File ID: W009577.D
Instrument ID: GCMSW
Injection Date: 04/25/02
Injection Time: 15:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99158	47.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0)[a]	Pass
69	Mass 69 relative abundance	70918	33.8		Pass
70	Less than 2.0% of mass 69	410	0.2	(0.58)[a]	Pass
127	40.0 - 60.0% of mass 198	90603	43.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	209933	100.0		Pass
199	5.0 - 9.0% of mass 198	13726	6.5		Pass
275	10.0 - 30.0% of mass 198	45787	21.8		Pass
365	1.0 - 100.0% of mass 198	4120	2.0		Pass
441	Present, but less than mass 443	29685	14.1	(75.4)[b]	Pass
442	40.0 - 100.0% of mass 198	204309	97.3		Pass
443	17.0 - 23.0% of mass 442	39352	18.7	(19.3)[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
SW530-CC518	W009578.D	04/25/02	15:51	00:18	Continuing cal 50
OP4993-BS2	W009579.D	04/25/02	16:21	00:48	Blank Spike
OP4993-MB2	W009580.D	04/25/02	16:51	01:18	Method Blank
F12899-2	W009581.D	04/25/02	17:21	01:48	(used for QC only; not part of job 1
ZZZZZZ	W009584.D	04/25/02	18:51	03:18	(unrelated sample)
ZZZZZZ	W009585.D	04/25/02	19:20	03:47	(unrelated sample)
ZZZZZZ	W009586.D	04/25/02	19:51	04:18	(unrelated sample)
ZZZZZZ	W009587.D	04/25/02	20:20	04:47	(unrelated sample)
ZZZZZZ	W009588.D	04/25/02	20:50	05:17	(unrelated sample)
ZZZZZZ	W009589.D	04/25/02	21:20	05:47	(unrelated sample)
ZZZZZZ	W009590.D	04/25/02	21:50	06:17	(unrelated sample)
ZZZZZZ	W009591.D	04/25/02	22:20	06:47	(unrelated sample)
ZZZZZZ	W009592.D	04/25/02	22:49	07:16	(unrelated sample)
ZZZZZZ	W009593.D	04/25/02	23:19	07:46	(unrelated sample)
ZZZZZZ	W009594.D	04/25/02	23:49	08:16	(unrelated sample)
ZZZZZZ	W009595.D	04/26/02	00:19	08:46	(unrelated sample)
ZZZZZZ	W009596.D	04/26/02	00:48	09:15	(unrelated sample)
ZZZZZZ	W009597.D	04/26/02	01:18	09:45	(unrelated sample)
ZZZZZZ	W009598.D	04/26/02	01:48	10:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW530-DFTPP	**Injection Date:**	04/25/02
Lab File ID:	W009577.D	**Injection Time:**	15:33
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009599.D	04/26/02	02:18	10:45	(unrelated sample)
OP4993-MB	W009600.D	04/26/02	02:48	11:15	Method Blank
F12898-1	W009601.D	04/26/02	03:17	11:44	CB3047

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW518-DFTPP **Injection Date:** 04/11/02
Lab File ID: W009333.D **Injection Time:** 09:03
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29)a	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51)a	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9)b	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6)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
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job I
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job I
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW527-DFTPP	**Injection Date:**	04/23/02
Lab File ID:	W009519.D	**Injection Time:**	10:03
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0a)	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6a)	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9b)	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8c)	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
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
ZZZZZZ	W009528.D	04/23/02	14:24	04:21	(unrelated sample)
ZZZZZZ	W009529.D	04/23/02	14:54	04:51	(unrelated sample)
ZZZZZZ	W009530.D	04/23/02	15:24	05:21	(unrelated sample)
ZZZZZZ	W009531.D	04/23/02	15:54	05:51	(unrelated sample)
ZZZZZZ	W009532.D	04/23/02	16:25	06:22	(unrelated sample)
ZZZZZZ	W009533.D	04/23/02	16:54	06:51	(unrelated sample)
ZZZZZZ	W009534.D	04/23/02	17:24	07:21	(unrelated sample)
ZZZZZZ	W009535.D	04/23/02	17:55	07:52	(unrelated sample)
ZZZZZZ	W009536.D	04/23/02	18:25	08:22	(unrelated sample)
ZZZZZZ	W009537.D	04/23/02	18:55	08:52	(unrelated sample)
ZZZZZZ	W009538.D	04/23/02	19:24	09:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample:	SW527-DFTPP	**Injection Date:**	04/23/02
Lab File ID:	W009519.D	**Injection Time:**	10:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job I
ZZZZZZ	W009542.D	04/23/02	21:25	11:22	(unrelated sample)
ZZZZZZ	W009543.D	04/23/02	21:55	11:52	(unrelated sample)
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job I
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Semivolatile Internal Standard Area Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW528-CC518	**Injection Date:**	04/24/02
Lab File ID:	W009556.D	**Injection Time:**	15:27
Instrument ID:	GCMSW	**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	215371	5.19	752961	6.41	344058	8.77	422152	11.30	234026	16.24	156629	18.74
Upper Limit[a]	430742	5.69	1505922	6.91	688116	9.27	844304	11.80	468052	16.74	313258	19.24
Lower Limit[b]	107686	4.69	376481	5.91	172029	8.27	211076	10.80	117013	15.74	78315	18.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS[c]	216703	5.19	754557	6.41	361004	8.77	434369	11.30	256270	16.24	167650	18.74
OP4993-MB	252297	5.18	888555	6.41	422232	8.76	519142	11.30	340099	16.23	215247	18.74
OP4993-MS	221104	5.18	762546	6.41	359228	8.77	436091	11.30	249853	16.24	170968	18.74
OP4993-MSD	243017	5.19	842234	6.41	394079	8.77	466192	11.30	270515	16.24	176656	18.74
F12898-1[d]	257390	5.18	892534	6.41	429496	8.76	536398	11.30	354267	16.24	234156	18.74
ZZZZZZ	265813	5.18	928815	6.41	425423	8.76	526875	11.30	318922	16.23	196810	18.74
ZZZZZZ	262246	5.18	913022	6.41	433316	8.76	541441	11.30	343478	16.23	221373	18.74
ZZZZZZ	272033	5.18	935376	6.41	432929	8.77	527313	11.30	325697	16.23	205386	18.74
ZZZZZZ	251938	5.19	890257	6.41	412798	8.76	513119	11.30	325568	16.23	215080	18.74

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.
(c) Recovery within control limits in MS/MSD.
(d) Surrogates outside of control limits, all values should be considered estimated.

Semivolatile Internal Standard Area Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW530-CC518	**Injection Date:**	04/25/02
Lab File ID:	W009578.D	**Injection Time:**	15:51
Instrument ID:	GCMSW	**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	274442	5.18	973388	6.41	479331	8.76	618179	11.29	361231	16.23	246631	18.73
Upper Limit	548884	5.68	1946776	6.91	958662	9.26	1236358	11.79	722462	16.73	493262	19.23
Lower Limit	137221	4.68	486694	5.91	239666	8.26	309090	10.79	180616	15.73	123316	18.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS2	256527	5.18	915716	6.40	440962	8.76	569383	11.29	344512	16.23	232014	18.73
OP4993-MB2	261751	5.18	944140	6.40	466170	8.76	603552	11.29	411404	16.22	263246	18.73
F12899-2	277639	5.18	989197	6.40	482294	8.76	627621	11.29	406800	16.22	260294	18.72
ZZZZZZ	264410	5.18	914081	6.40	430581	8.76	528304	11.30	315850	16.24	197868	18.74
ZZZZZZ	277440	5.18	937870	6.40	429250	8.77	527525	11.31	310557	16.23	186675	18.73
ZZZZZZ	255811	5.18	902179	6.40	432850	8.76	540247	11.29	355128	16.22	217765	18.73
ZZZZZZ	286105	5.18	1021891	6.40	511319	8.75	655606	11.29	430458	16.22	259262	18.73
ZZZZZZ	276609	5.18	968260	6.40	478175	8.75	610362	11.29	398308	16.23	237566	18.73
ZZZZZZ	263271	5.18	927923	6.40	461325	8.76	586366	11.29	367910	16.22	225781	18.73
ZZZZZZ	268454	5.18	888830	6.41	409801	8.76	491297	11.30	286971	16.24	173933	18.74
ZZZZZZ	280659	5.18	1023157	6.40	502917	8.76	656347	11.29	416263	16.23	254451	18.73
ZZZZZZ	272450	5.18	972538	6.40	468699	8.76	580984	11.29	363220	16.22	224168	18.73
ZZZZZZ	264656	5.18	925670	6.40	437250	8.76	535550	11.29	338159	16.22	204720	18.72
ZZZZZZ	278789	5.18	989729	6.40	480080	8.76	582475	11.29	382863	16.22	235788	18.73
ZZZZZZ	273366	5.18	970291	6.40	471939	8.76	614266	11.29	391140	16.22	243650	18.73
ZZZZZZ	261072	5.18	935631	6.40	458238	8.75	581518	11.29	380457	16.22	234104	18.73
ZZZZZZ	279618	5.18	993353	6.40	492310	8.76	636523	11.29	420886	16.22	250046	18.73
ZZZZZZ	288451	5.18	1026709	6.40	501030	8.75	641121	11.29	399251	16.22	243398	18.72
ZZZZZZ	274877	5.18	979167	6.40	474530	8.76	613383	11.29	396529	16.22	239959	18.73
OP4993-MB	249019	5.18	889322	6.40	430803	8.76	548354	11.29	352790	16.22	213060	18.72
F12898-1	281878	5.18	1016784	6.40	497588	8.76	643368	11.29	404184	16.22	241597	18.73

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 Internal Standard Area Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	259341	5.19	912494	6.42	433150	8.78	536865	11.32	302343	16.26	199447	18.76
Upper Limit	518682	5.69	1824988	6.92	866300	9.28	1073730	11.82	604686	16.76	398894	19.26
Lower Limit	129671	4.69	456247	5.92	216575	8.28	268433	10.82	151172	15.76	99724	18.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4979-MB	253840	5.19	896872	6.42	421422	8.78	533865	11.31	337085	16.25	209473	18.75
ZZZZZZ	246551	5.19	852067	6.42	403848	8.78	495963	11.31	301638	16.24	193370	18.75
ZZZZZZ	245553	5.19	843939	6.41	392646	8.78	480502	11.31	297606	16.24	192611	18.75
ZZZZZZ	257326	5.19	903992	6.41	435169	8.77	543476	11.31	344822	16.25	223659	18.75
OP4993-BS	234760	5.19	815524	6.42	377077	8.78	469730	11.31	275814	16.25	195065	18.75
OP4993-MB	241156	5.19	860373	6.41	408147	8.78	514950	11.31	327166	16.24	206929	18.75
ZZZZZZ	258616	5.19	890818	6.42	426858	8.78	518945	11.31	312429	16.25	196116	18.75
ZZZZZZ	241752	5.19	807181	6.42	365349	8.78	425282	11.32	244711	16.25	171978	18.76
ZZZZZZ	199444	5.19	659395	6.42	294914	8.78	355167	11.32	243582	16.26	178606	18.76
ZZZZZZ	229066	5.19	818603	6.42	391312	8.78	475830	11.31	302677	16.25	194352	18.76
ZZZZZZ	255637	5.19	889861	6.41	433120	8.78	543199	11.31	337194	16.25	209347	18.75
ZZZZZZ	238509	5.19	839521	6.42	397164	8.78	489377	11.31	309934	16.25	200598	18.75
ZZZZZZ	242231	5.19	840595	6.42	403441	8.78	497498	11.31	297831	16.25	189009	18.75
ZZZZZZ	208193	5.19	683077	6.42	302708	8.78	358078	11.32	241373	16.26	175200	18.76
ZZZZZZ	263053	5.19	923033	6.42	441106	8.78	552182	11.31	344758	16.25	211109	18.76
ZZZZZZ	243365	5.19	852340	6.42	390661	8.78	501427	11.31	315697	16.25	204562	18.75
ZZZZZZ	255982	5.19	886610	6.42	420898	8.78	527416	11.32	334342	16.25	204951	18.75
ZZZZZZ	243087	5.19	862067	6.41	407569	8.77	503719	11.31	318686	16.25	200827	18.75
F12899-2	237783	5.19	833382	6.41	387453	8.78	492519	11.31	304364	16.25	193936	18.75
ZZZZZZ	254705	5.19	866710	6.42	409782	8.78	509097	11.31	322923	16.25	204805	18.75
ZZZZZZ	226499	5.19	773782	6.42	357997	8.78	451904	11.31	289234	16.25	194811	18.75
OP5023-BS	264429	5.19	922367	6.41	441886	8.78	536864	11.31	310342	16.26	209805	18.76
OP5023-MB	231871	5.19	809279	6.42	384930	8.77	469976	11.31	291635	16.25	188431	18.75
F12946-11	245243	5.19	875236	6.41	408086	8.78	497064	11.31	313368	16.24	203875	18.75
OP5023-MS	256126	5.19	899377	6.42	439354	8.78	528716	11.31	303510	16.25	206398	18.75
OP5023-MSD	254868	5.19	907368	6.42	429728	8.78	527860	11.31	308137	16.25	201945	18.75

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.

Semivolatile Internal Standard Area Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recovery within control limits in MS/MSD.

Semivolatile Surrogate Recovery Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

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
F12898-1	W009601.D	11.0*	17.0	17.0*	73.0	73.0	90.0
F12898-1	W009561.D	11.0*	17.0	17.0*	75.0	75.0	86.0
OP4993-BS	W009525.D	28.0	22.0	51.0	86.0	87.0	98.0
OP4993-BS	W009557.D	30.0	25.0	56.0	98.0	96.0	106.0
OP4993-MB	W009526.D	46.0	31.0	77.0	69.0	68.0	88.0
OP4993-MB	W009558.D	46.0	32.0	79.0	70.0	66.0	84.0
OP4993-MB	W009600.D	47.0	32.0	81.0	72.0	70.0	94.0
OP4993-MS	W009559.D	79.0	62.0	97.0	95.0	94.0	98.0
OP4993-MSD	W009560.D	74.0	61.0	89.0	88.0	87.0	90.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

(a) Confirmed by reanalysis. Insufficient sample for re-extraction.

Initial Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW518-ICC518
Lab FileID: W009337.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:51:43 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------ISTD----------							
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22

Initial Calibration Summary

Job Number: F12898 **Sample:** SW518-ICC518
Account: ITTNKNOX IT Corporation **Lab FileID:** W009337.D
Project: Plum Brook Ordnance WKS.

45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.5

(#) = Out of Range

8270C.M Thu Apr 11 16:38:38 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: SW528-CC518
Lab FileID: W009556.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042402\W009556.D Vial: 2
Acq On : 24 Apr 2002 3:27 pm Operator: marke
Sample : cc518-75 Inst : MSBNA01
Misc : op5023,sw528,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.445	0.474	-6.5	88	0.00
3		N-nitrosodimethylamine	0.558	0.542	2.9	75	-0.08
4		Pyridine	1.008	1.044	-3.6	85	-0.07
5		Benzaldehyde	0.502	0.489	2.6	96	-0.01
6		Aniline	1.505	1.410	6.3	85	-0.01
7	S	2-Fluorophenol	1.207	1.175	2.7	88	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.270	-0.3	87	-0.01
9	S	Phenol-d5	1.457	1.382	5.1	88	0.00
10	C	Phenol	1.599	1.524	4.7	89	-0.01
11		2-Chlorophenol	1.394	1.338	4.0	85	-0.01
12		1,3-Dichlorobenzene	1.523	1.471	3.4	87	0.00
13	C	1,4-Dichlorobenzene	1.484	1.450	2.3	88	0.00
14		1,2-Dichlorobenzene	1.387	1.367	1.4	88	-0.01
15		Benzyl alcohol	0.859	0.830	3.4	85	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.782	0.9	91	-0.01
17		2-Methylphenol	1.143	1.082	5.3	85	0.00
18		Acetophenone	1.539	1.385	10.0	84	0.00
19		Hexachloroethane	0.548	0.538	1.8	88	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.706	10.9	82	-0.01
21		3&4-Methylphenol	1.094	0.989	9.6	85	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
23	S	Nitrobenzene-d5	0.369	0.361	2.2	85	0.00
24		Nitrobenzene	0.351	0.346	1.4	86	-0.01
25		Isophorone	0.640	0.594	7.2	82	-0.01
26	C	2-Nitrophenol	0.212	0.207	2.4	86	0.00
27		2,4-Dimethylphenol	0.344	0.322	6.4	83	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.363	6.4	85	0.00
29		Benzoic Acid	0.247	0.256	-3.6	82	0.02
30	C	2,4-Dichlorophenol	0.304	0.295	3.0	86	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	85	0.00
32		Naphthalene	0.959	0.918	4.3	85	0.00
33		4-Chloroaniline	0.350	0.321	8.3	84	0.00
34		2,6-Dichlorophenol	0.288	0.271	5.9	85	0.00
35	C	Hexachlorobutadiene	0.179	0.169	5.6	84	0.00
36		Caprolactam	0.194	0.180	7.2	80	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.258	6.5	82	0.00
38		2-Methylnaphthalene	0.647	0.614	5.1	83	0.00
39		1-Methylnaphthalene	0.614	0.575	6.4	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.257	6.5	85	0.00

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: SW528-CC518
Lab FileID: W009556.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.01
42	P	Hexachlorocyclopentadiene	0.282	0.285	-1.1	77	-0.02
43	C	2,4,6-Trichlorophenol	0.405	0.401	1.0	81	-0.02
44		2,4,5-Trichlorophenol	0.423	0.419	0.9	81	-0.02
45	S	2-Fluorobiphenyl	1.362	1.342	1.5	82	-0.02
46		1,1'-Biphenyl	1.455	1.439	1.1	82	-0.02
47		2-Chloronaphthalene	1.182	1.193	-0.9	84	-0.02
48		2-Nitroaniline	0.357	0.360	-0.8	81	-0.02
49		Acenaphthylene	1.551	1.527	1.5	80	-0.02
50		Dimethylphthalate	1.254	1.199	4.4	78	-0.02
51		2,6-Dinitrotoluene	0.292	0.287	1.7	78	-0.01
52	C	Acenaphthene	1.083	1.056	2.5	81	-0.02
53		3-Nitroaniline	0.319	0.308	3.4	76	-0.01
54	P	2,4-Dinitrophenol	0.167	0.152	9.0	70	-0.01
55		Dibenzofuran	1.534	1.495	2.5	83	-0.01
56		2,4-Dinitrotoluene	0.348	0.340	2.3	81	-0.01
57	P	4-Nitrophenol	0.142	0.130	8.5	73	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.266	5.3	77	0.00
59		Fluorene	1.173	1.141	2.7	81	0.00
60		4-Chlorophenyl-phenylether	0.544	0.528	2.9	82	0.00
61		Diethylphthalate	1.121	1.031	8.0	74	0.00
62		4-Nitroaniline	0.281	0.279	0.7	80	-0.02
63	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
64		4,6-Dinitro-2-methylphenol	0.174	0.164	5.7	73	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.612	1.6	78	-0.02
66		1,2-Diphenylhydrazine	0.886	0.866	2.3	78	-0.03
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	77	-0.03
68		4-Bromophenyl-phenylether	0.213	0.210	1.4	78	-0.02
69		Hexachlorobenzene	0.213	0.205	3.8	78	-0.02
70		Atrazine	0.095	0.073	23.2#	63	-0.01
71	C	Pentachlorophenol	0.131	0.114	13.0	66	-0.01
72		Phenanthrene	1.155	1.113	3.6	78	-0.01
73		Anthracene	1.146	1.094	4.5	77	-0.02
74		Carbazole	1.095	1.049	4.2	78	-0.01
75		Di-n-butylphthalate	1.238	1.121	9.5	72	0.00
76	C	Fluoranthene	1.088	1.006	7.5	76	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	80	-0.02
78		Benzidine	0.192	0.132	31.3#	69	-0.03
79		Pyrene	1.874	1.825	2.6	76	-0.04
80	S	Terphenyl-d14	1.108	1.058	4.5	74	-0.03
81		Butylbenzylphthalate	0.761	0.714	6.2	72	-0.01
82		3,3'-Dichlorobenzidine	0.346	0.354	-2.3	85	-0.01
83		Benzo[a]anthracene	1.303	1.282	1.6	77	-0.01
84		Chrysene	1.276	1.240	2.8	76	-0.02
85		bis(2-Ethylhexyl)phthalate	0.948	0.849	10.4	68	0.00
86	I	Perylene-d12	1.000	1.000	0.0	76	-0.02
87	C	Di-n-octylphthalate	2.177	1.994	8.4	67	-0.02
88		Benzo[b]fluoranthene	1.460	1.415	3.1	73	-0.02
89		Benzo[k]fluoranthene	1.498	1.439	3.9	76	-0.03
90	C	Benzo[a]pyrene	1.267	1.263	0.3	76	-0.02
91		Indeno[1,2,3-cd]pyrene	0.945	0.995	-5.3	81	0.00
92		Dibenz[a,h]anthracene	1.019	1.074	-5.4	80	-0.01
93		Benzo[g,h,i]perylene	1.028	1.062	-3.3	81	-0.02

Average % D = 4.8

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW528-CC518
Lab FileID: W009556.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W009337.D 8270C.M Thu Apr 25 09:30:16 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-CC518
Lab FileID: W009578.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042502A\W009578.D Vial: 2
Acq On : 25 Apr 2002 3:51 pm Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op5034,sw530,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	-0.02
2		1,4-Dioxane	0.445	0.473	-6.3	130	0.00
3		N-nitrosodimethylamine	0.558	0.493	11.6	120	-0.08
4		Pyridine	1.008	0.997	1.1	125	-0.07
5		Benzaldehyde	0.502	0.595	-18.5	139	-0.02
6		Aniline	1.505	1.508	-0.2	118	-0.02
7	S	2-Fluorophenol	1.207	1.215	-0.7	122	-0.03
8		bis(2-Chloroethyl)ether	1.266	1.297	-2.4	125	-0.02
9	S	Phenol-d5	1.457	1.442	1.0	121	-0.02
10	C	Phenol	1.599	1.595	0.3	120	-0.02
11		2-Chlorophenol	1.394	1.369	1.8	120	-0.02
12		1,3-Dichlorobenzene	1.523	1.520	0.2	125	-0.02
13	C	1,4-Dichlorobenzene	1.484	1.487	-0.2	123	-0.02
14		1,2-Dichlorobenzene	1.387	1.404	-1.2	122	-0.02
15		Benzyl alcohol	0.859	0.858	0.1	123	-0.02
16		bis(2-chloroisopropyl)ether	2.806	2.938	-4.7	126	-0.02
17		2-Methylphenol	1.143	1.139	0.3	125	-0.02
18		Acetophenone	1.539	1.479	3.9	119	-0.02
19		Hexachloroethane	0.548	0.543	0.9	120	-0.01
20	P	N-Nitroso-di-n-propylamine	0.792	0.757	4.4	119	-0.02
21		3&4-Methylphenol	1.094	1.060	3.1	120	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.01
23	S	Nitrobenzene-d5	0.369	0.369	0.0	122	-0.02
24		Nitrobenzene	0.351	0.354	-0.9	124	-0.02
25		Isophorone	0.640	0.633	1.1	122	-0.02
26	C	2-Nitrophenol	0.212	0.214	-0.9	124	-0.02
27		2,4-Dimethylphenol	0.344	0.341	0.9	121	-0.02
28		bis(2-Chloroethoxy)methane	0.388	0.382	1.5	118	-0.02
29		Benzoic Acid	0.247	0.261	-5.7	132	0.00
30	C	2,4-Dichlorophenol	0.304	0.309	-1.6	121	-0.02
31		1,2,4-Trichlorobenzene	0.306	0.309	-1.0	124	-0.02
32		Naphthalene	0.959	0.956	0.3	123	-0.02
33		4-Chloroaniline	0.350	0.356	-1.7	124	-0.01
34		2,6-Dichlorophenol	0.288	0.287	0.3	122	-0.01
35	C	Hexachlorobutadiene	0.179	0.175	2.2	119	-0.01
36		Caprolactam	0.194	0.203	-4.6	130	-0.03
37	C	4-Chloro-3-methylphenol	0.276	0.278	-0.7	124	-0.01
38		2-Methylnaphthalene	0.647	0.646	0.2	123	0.00
39		1-Methylnaphthalene	0.614	0.621	-1.1	126	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.275	0.275	0.0	122	-0.01

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: SW530-CC518
Lab FileID: W009578.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.02
42	P	Hexachlorocyclopentadiene	0.282	0.268	5.0	113	-0.03
43	C	2,4,6-Trichlorophenol	0.405	0.407	-0.5	127	-0.03
44		2,4,5-Trichlorophenol	0.423	0.423	0.0	121	-0.03
45	S	2-Fluorobiphenyl	1.362	1.359	0.2	124	-0.03
46		1,1'-Biphenyl	1.455	1.444	0.8	123	-0.03
47		2-Chloronaphthalene	1.182	1.186	-0.3	123	-0.03
48		2-Nitroaniline	0.357	0.363	-1.7	127	-0.03
49		Acenaphthylene	1.551	1.577	-1.7	128	-0.03
50		Dimethylphthalate	1.254	1.273	-1.5	128	-0.03
51		2,6-Dinitrotoluene	0.292	0.294	-0.7	126	-0.02
52	C	Acenaphthene	1.083	1.079	0.4	124	-0.03
53		3-Nitroaniline	0.319	0.334	-4.7	129	-0.02
54	P	2,4-Dinitrophenol	0.167	0.165	1.2	129	-0.02
55		Dibenzofuran	1.534	1.521	0.8	125	-0.02
56		2,4-Dinitrotoluene	0.348	0.349	-0.3	124	-0.02
57	P	4-Nitrophenol	0.142	0.138	2.8	119	-0.03
58		2,3,4,6-Tetrachlorophenol	0.281	0.280	0.4	121	-0.02
59		Fluorene	1.173	1.194	-1.8	126	-0.02
60		4-Chlorophenyl-phenylether	0.544	0.557	-2.4	127	-0.01
61		Diethylphthalate	1.121	1.123	-0.2	126	-0.02
62		4-Nitroaniline	0.281	0.303	-7.8	129	-0.03
63	I	Phenanthrene-d10	1.000	1.000	0.0	129	-0.02
64		4,6-Dinitro-2-methylphenol	0.174	0.169	2.9	126	-0.04
65	C	n-Nitrosodiphenylamine	0.622	0.624	-0.3	129	-0.03
66		1,2-Diphenylhydrazine	0.886	0.845	4.6	122	-0.04
67	S	2,4,6-Tribromophenol	0.104	0.102	1.9	124	-0.04
68		4-Bromophenyl-phenylether	0.213	0.207	2.8	122	-0.03
69		Hexachlorobenzene	0.213	0.207	2.8	125	-0.03
70		Atrazine	0.095	0.084	11.6	112	-0.02
71	C	Pentachlorophenol	0.131	0.121	7.6	109	-0.03
72		Phenanthrene	1.155	1.139	1.4	127	-0.03
73		Anthracene	1.146	1.115	2.7	124	-0.03
74		Carbazole	1.095	1.070	2.3	121	-0.02
75		Di-n-butylphthalate	1.238	1.205	2.7	119	0.00
76	C	Fluoranthene	1.088	1.054	3.1	119	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	120	-0.03
78		Benzidine	0.192	0.237	-23.4#	136	-0.04
79		Pyrene	1.874	1.851	1.2	123	-0.05
80	S	Terphenyl-d14	1.108	1.099	0.8	122	-0.04
81		Butylbenzylphthalate	0.761	0.769	-1.1	121	-0.02
82		3,3'-Dichlorobenzidine	0.346	0.373	-7.8	128	-0.03
83		Benzo[a]anthracene	1.303	1.315	-0.9	121	-0.03
84		Chrysene	1.276	1.290	-1.1	123	-0.04
85		bis(2-Ethylhexyl)phthalate	0.948	0.977	-3.1	123	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	119	-0.03
87	C	Di-n-octylphthalate	2.177	2.188	-0.5	119	-0.03
88		Benzo[b]fluoranthene	1.460	1.433	1.8	119	-0.04
89		Benzo[k]fluoranthene	1.498	1.454	2.9	117	-0.04
90	C	Benzo[a]pyrene	1.267	1.263	0.3	118	-0.03
91		Indeno[1,2,3-cd]pyrene	0.945	0.916	3.1	109	-0.03
92		Dibenz[a,h]anthracene	1.019	1.024	-0.5	115	-0.03
93		Benzo[g,h,i]perylene	1.028	1.004	2.3	115	-0.04

Average % D = 2.5

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW530-CC518
Lab FileID: W009578.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W009334.D 8270C.M Fri Apr 26 14:17:17 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 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)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00

Continuing Calibration Summary

Job Number: F12898 **Sample:** SW527-CC518
Account: ITTNKNOX IT Corporation **Lab FileID:** W009520.D
Project: Plum Brook Ordnance WKS.

41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01
44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: SW527-CC518
Lab FileID: W009520.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W009334.D 8270C.M Wed Apr 24 13:53:45 2002 MSBNA01

GC Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-BS	GG003013.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12898-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.5	100	80-120
121-82-4	RDX	2.5	2.4	96	80-120
99-65-0	1,3-Dinitrobenzene	2.5	2.4	96	80-120
606-20-2	2,6-Dinitrotoluene	2.5	3.0	120	80-120
121-14-2	2,4-Dinitrotoluene	2.5	2.3	92	80-120
35572-78-2	2-amino-4,6-Dinitrotc	2.5	2.6	104	80-120
19406-51-0	4-amino-2,6-Dinitrotc	2.5	2.6	104	80-120
98-95-3	Nitrobenzene	2.5	2.1	84	80-120
88-72-2	o-Nitrotoluene	2.5	2.2	88	74-120
99-08-1	m-Nitrotoluene	2.5	2.2	88	76-120
99-99-0	p-Nitrotoluene	2.5	2.3	92	76-120
479-45-8	Tetryl	2.5	2.8	112	74-120
99-35-4	1,3,5-Trinitrobenzene	2.5	2.5	100	80-120
118-96-7	2,4,6-Trinitrotoluene	2.5	2.4	96	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	106%	58-131%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MB	GG003014.D	1	04/22/02	MRE	04/16/02	OP4980	GGG153

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12898-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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	81%	58-131%

Method Blank Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MB	GG003046.D	1	04/23/02	MRE	04/16/02	OP4980	GGG154

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12898-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.50	ug/l	
121-82-4	RDX	ND	0.50	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	
99-08-1	m-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	89%	58-131%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4980-MS	GG003018.□	10	04/22/02	MRE	04/16/02	OP4980	GGG153
OP4980-MSD[a]	GG003019.□	10	04/22/02	MRE	04/16/02	OP4980	GGG153
F12898-1[b]	GG003016.□	1	04/22/02	MRE	04/16/02	OP4980	GGG153
F12898-1	GG003044.□	1	04/23/02	MRE	04/16/02	OP4980	GGG154

The QC reported here applies to the following samples: **Method:** SW846 8330A

F12898-1

CAS No.	Compound	F12898-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
121-82-4	RDX	ND		5	5.9	118	6.4	128*	8	79-120/20
99-65-0	1,3-Dinitrobenzene	ND		5	5.1	102	4.8	96	6	78-125/20
606-20-2	2,6-Dinitrotoluene	1.4[c]		5	7.7	126*	8.0	132*	4	80-120/20
121-14-2	2,4-Dinitrotoluene	4.6		5	9.3	94	9.2	92	1	80-120/20
35572-78-2	2-amino-4,6-Dinitrotc	23.0[e]		5	30.5	150*[d]	29.7	134*[d]	3	80-120/20
19406-51-4	4-amino-2,6-Dinitrotc	17.1[e]		5	24.3	144*[d]	23.6	130*[d]	3	80-120/22
98-95-3	Nitrobenzene	ND		5	4.7	94	4.3	86	9	80-120/22
88-72-2	o-Nitrotoluene	ND		5	4.9	98	5.6	112	13	72-120/20
99-08-1	m-Nitrotoluene	ND		5	4.2	84	4.2	84	0	72-120/20
99-99-0	p-Nitrotoluene	ND		5	5.1	102	5.2	104	2	74-120/20
479-45-8	Tetryl	ND		5	6.0	120	5.4	108	11	52-120/25
99-35-4	1,3,5-Trinitrobenzene	ND		5	3.8	76*	3.9	78*	3	80-120/20
118-96-7	2,4,6-Trinitrotoluene	59.8[e]		5	66.0	124*[d]	66.4	132*[d]	1	66-120/20

CAS No.	Surrogate Recoveries	MS	MSD	F12898-1	F12898-1	Limits
610-39-9	3,4-Dinitrotoluene	85% [g]	88% [g]	0%* [f]	107%	58-131%

(a) HMX recovery not reported due to matrix interference.
(b) All hits confirmed by reanalysis on a dissimilar column.
(c) Result is from Run #2.
(d) Outside control limits due to high level in sample relative to spike amount.
(e) Result is from Run #3.
(f) Not calculated due to matrix interference.
(g) Recoveries reported from confirmation run due to matrix interference on primary col

Semivolatile Surrogate Recovery Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F12898-1	GG003017.D	0.0[b]
F12898-1	GG003044.D	107.0
F12898-1	GG003016.D	0.0[b]
OP4980-BS	GG003013.D	106.0
OP4980-MB	GG003014.D	81.0
OP4980-MB	GG003046.D	89.0
OP4980-MS	GG003018.D	85.0[c]
OP4980-MSD	GG003019.D	88.0[c]

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	58-131%

(a) Recovery from GC signal #1
(b) Not calculated due to matrix interference.
(c) Recoveries reported from confirmation run due to matrix interference on primary col

GC Surrogate Retention Time Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG153-CC150	**Injection Date:**	04/22/02
Lab File ID:	GG003011.D	**Injection Time:**	10:25
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	13.82

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP4980-BS	GG003013.D	04/22/02	11:21	13.85
OP4980-MB	GG003014.D	04/22/02	11:49	13.83
ZZZZZZ	GG003015.D	04/22/02	12:17	13.82
F12898-1	GG003016.D	04/22/02	12:45	0.00
F12898-1	GG003017.D	04/22/02	13:20	0.00
OP4980-MS	GG003018.D	04/22/02	13:48	0.00
OP4980-MSD	GG003019.D	04/22/02	14:16	0.00

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Check Std:	GGG154-CC149	**Injection Date:**	04/23/02
Lab File ID:	GG003042.D	**Injection Time:**	09:57
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	16.65

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
F12898-1	GG003044.D	04/23/02	11:01	16.64
OP4980-MB	GG003046.D	04/23/02	12:05	16.65

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG150-ICC150
Lab FileID: GG002910.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Apr 17 09:04:04 2002
Response via : Initial Calibration

Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	3.208	3.005	2.931	2.974	2.912	2.973	3.000	E3	3.57
2)		RDX	4.439	3.889	3.862	3.700	3.628	3.673	3.865	E3	7.77
3)		1,3,5-Trinitrobenze	8.300	7.994	7.858	7.651	7.723	7.922	7.908	E3	2.91
4)		1,3-Dinitrobenzene	1.145	1.080	1.070	1.040	1.052	1.062	1.075	E4	3.47
5)		Tetryl	6.230	6.384	6.202	5.818	5.903	5.939	6.080	E3	3.68
6)		Nitrobenzene	7.310	6.837	6.709	6.491	6.645	6.672	6.777	E3	4.19
7)	S	3,4-Dinitrotoluene	5.007	5.095	4.865	4.751	4.894	4.872	4.914	E3	2.45
8)		2,4,6-Trinitrotolue	7.446	7.453	7.161	7.004	7.126	7.178	7.228	E3	2.52
9)		4-Amino-2,6-Dinitro	4.860	5.051	4.779	4.688	4.789	4.778	4.824	E3	2.57
10)		2-Amino-4,6-Dinitro	6.456	6.662	6.333	6.240	6.312	6.347	6.392	E3	2.34
11)		2,6-Dinitrotoluene	5.076	5.080	5.001	5.037	5.045	4.952	5.032	E3	0.97
12)		2,4-Dinitrotoluene	9.639	9.900	9.193	9.189	9.059	9.185	9.361	E3	3.54
13)		o-Nitrotoluene	4.600	4.138	4.187	3.985	4.002	4.105	4.170	E3	5.40
14)		p-Nitrotoluene	3.657	3.491	3.566	3.367	3.352	3.486	3.486	E3	3.34
15)		m-Nitrotoluene	4.705	4.511	4.564	4.338	4.389	4.484	4.499	E3	2.90

Signal #2 Calibration Files
20 =GG002907.D 100 =GG002908.D 200 =GG002909.D
300 =GG002910.D 400 =GG002911.D 500 =GG002912.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	9.471	9.091	8.622	8.402	8.401	8.634	8.770	E3	4.86
2)		RDX		7.225	6.578	6.341	6.356	6.336	6.568	E3	5.81
3)		1,3,5-Trinitrobenze	1.666	1.599	1.599	1.545	1.569	1.597	1.596	E4	2.54
4)		1,3-Dinitrobenzene	1.379	1.296	1.283	1.246	1.261	1.274	1.290	E4	3.64
5)		Tetryl	1.101	1.115	1.088	1.033	1.042	1.056	1.073	E4	3.11
6)		Nitrobenzene	3.341	2.878	2.860	2.744	2.824	2.831	2.913	E3	7.37
7)	S	3,4-Dinitrotoluene	6.912	6.805	6.674	6.507	6.616	6.651	6.694	E3	2.15
8)		2,4,6-Trinitrotolue	1.117	1.083	1.053	1.032	1.043	1.058	1.064	E4	2.91
9)		4-Amino-2,6-Dinitro	1.377	1.335	1.290	1.271	1.279	1.296	1.308	E4	3.10
10)		2-Amino-4,6-Dinitro	1.138	1.090	1.051	1.039	1.043	1.058	1.070	E4	3.55
11)		2,6-Dinitrotoluene	7.440	7.508	7.249	7.070	7.170	7.207	7.274	E3	2.30
12)		2,4-Dinitrotoluene	9.096	8.104	7.952	7.787	7.877	7.949	8.128	E3	5.98
13)		o-Nitrotoluene	4.788	4.444	4.373	4.281	4.297	4.375	4.426	E3	4.21
14)		p-Nitrotoluene	7.137	6.933	6.940	6.744	6.754	6.918	6.904	E3	2.10
15)		m-Nitrotoluene	7.076	6.673	6.667	6.465	6.510	6.618	6.668	E3	3.25

Average % RSD = 3.6

(#) = Out of Range

8330_EX.M Wed Apr 17 15:20:31 2002

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: GGG153-CC150
Lab FileID: GG003011.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0422EXP\GG003011.D\DAD1B.CH Vial: 1
Signal #2 : G:\HPCHEM\1\DATA\0422EXP\GG003011.D\DAD1A.CH
Acq On : 22-Apr-2002, 10:25:23 Operator: MIKEE
Sample : CC150-200 Inst : G1315B
Misc : op4980,ggg153,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Mon Apr 22 13:55:06 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	200.000	197.063	1.5	101	0.00
2		RDX	200.000	198.568	0.7	99	0.00
3		1,3,5-Trinitrobenzene	200.000	193.277	3.4	97	0.00
4		1,3-Dinitrobenzene	200.000	192.686	3.7	97	0.00
5		Tetryl	200.000	191.628	4.2	94	0.00
6		Nitrobenzene	200.000	187.518	6.2	95	0.00
7	S	3,4-Dinitrotoluene	200.000	207.079	-3.5	105	0.00
8		2,4,6-Trinitrotoluene	200.000	186.851	6.6	94	0.00
9		4-Amino-2,6-Dinitrotoluene	200.000	195.227	2.4	99	0.00
10		2-Amino-4,6-Dinitrotoluene	200.000	191.548	4.2	97	0.00
11		2,6-Dinitrotoluene	200.000	223.542	-11.8	112	0.00
12		2,4-Dinitrotoluene	200.000	182.296	8.9	93	0.00
13		o-Nitrotoluene	200.000	191.621	4.2	95	0.00
14		p-Nitrotoluene	200.000	187.930	6.0	92	0.00
15		m-Nitrotoluene	200.000	191.715	4.1	94	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	194.427	2.8	99	0.00
2		RDX	200.000	201.977	-1.0	101	0.00
3		1,3,5-Trinitrobenzene	200.000	192.163	3.9	96	0.00
4		1,3-Dinitrobenzene	200.000	192.760	3.6	97	0.00
5		Tetryl	200.000	188.730	5.6	93	0.00
6		Nitrobenzene	200.000	187.723	6.1	96	0.00
7	S	3,4-Dinitrotoluene	200.000	209.089	-4.5	105	0.00
8		2,4,6-Trinitrotoluene	200.000	188.377	5.8	95	0.00
9		4-Amino-2,6-Dinitrotoluen	200.000	194.834	2.6	99	0.00
10		2-Amino-4,6-Dinitrotoluen	200.000	190.395	4.8	97	0.00
11		2,6-Dinitrotoluene	200.000	209.023	-4.5	105	0.00
12		2,4-Dinitrotoluene	200.000	177.719	11.1	91	0.00
13		o-Nitrotoluene	200.000	193.101	3.4	98	0.00
14		p-Nitrotoluene	200.000	193.748	3.1	96	0.00
15		m-Nitrotoluene	200.000	193.448	3.3	97	0.00

Average % D = 4.6

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003011.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002909.D 8330_EX.M Tue Apr 23 09:13:21 2002

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003021.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0422EXP\GG003021.D\DAD1B.CH Vial: 11
Signal #2 : G:\HPCHEM\1\DATA\0422EXP\GG003021.D\DAD1A.CH
Acq On : 22-Apr-2002, 15:12:21 Operator: MIKEE
Sample : CC150-300 Inst : G1315B
Misc : op4980,ggg153,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 23 09:16:54 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	291.930	2.7	98	0.00
2		RDX	300.000	287.801	4.1	100	0.00
3		1,3,5-Trinitrobenzene	300.000	293.863	2.0	101	0.00
4		1,3-Dinitrobenzene	300.000	296.871	1.0	102	0.00
5		Tetryl	300.000	311.113	-3.7	108	0.00
6		Nitrobenzene	300.000	281.336	6.2	98	0.00
7	S	3,4-Dinitrotoluene	300.000	319.498	-6.5	110	0.00
8		2,4,6-Trinitrotoluene	300.000	286.975	4.3	99	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	299.993	0.0	103	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	294.523	1.8	101	0.00
11		2,6-Dinitrotoluene	300.000	311.302	-3.8	104	0.02
12		2,4-Dinitrotoluene	300.000	291.454	2.8	99	0.00
13		o-Nitrotoluene	300.000	291.071	3.0	102	0.00
14		p-Nitrotoluene	300.000	291.753	2.7	101	0.00
15		m-Nitrotoluene	300.000	297.376	0.9	103	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	294.721	1.8	103	0.00
2		RDX	300.000	295.249	1.6	102	0.00
3		1,3,5-Trinitrobenzene	300.000	295.197	1.6	102	0.00
4		1,3-Dinitrobenzene	300.000	295.464	1.5	102	0.00
5		Tetryl	300.000	299.922	0.0	104	0.00
6		Nitrobenzene	300.000	260.887	13.0	92	0.00
7	S	3,4-Dinitrotoluene	300.000	315.848	-5.3	108	0.00
8		2,4,6-Trinitrotoluene	300.000	286.325	4.6	98	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	296.525	1.2	102	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	290.193	3.3	100	0.00
11		2,6-Dinitrotoluene	300.000	315.756	-5.3	108	0.00
12		2,4-Dinitrotoluene	300.000	269.174	10.3	94	0.00
13		o-Nitrotoluene	300.000	295.578	1.5	102	0.00
14		p-Nitrotoluene	300.000	297.451	0.8	102	0.00
15		m-Nitrotoluene	300.000	297.243	0.9	102	0.00

Average % D = 3.3

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG153-CC150
Lab FileID: GG003021.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002910.D 8330_EX.M Tue Apr 23 09:34:08 2002

Initial Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.

Sample: GGG149-ICC149
Lab FileID: GG002881.D

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Mon Apr 15 09:40:10 2002
Response via : Initial Calibration

Calibration Files
20 =GG002878.D 100 =GG002879.D 200 =GG002880.D
300 =GG002881.D 400 =GG002882.D 500 =GG002883.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		Nitrobenzene	4.208	3.791	3.737	3.661	3.691	3.709	3.799	E3	5.40
2)		1,3-Dinitrobenzene	6.653	6.418	6.305	6.103	6.208	6.272	6.327	E3	3.02
3)		1,3,5-Trinitrobenze	5.024	4.863	4.765	4.647	4.712	4.748	4.793	E3	2.78
4)		RDX	2.498	2.425	2.291	2.239	2.285	2.316	2.343	E3	4.19
5)		o&p-Nitrotoluene	1.923	1.976	1.986	1.893	1.945	1.944	1.945	E3	1.75
6)		m-Nitrotoluene	1.967	2.501	2.492	2.349	2.407	2.406	2.354	E3	8.41
7)		2,4-Dinitrotoluene	4.728	5.774	5.802	5.466	5.608	5.633	5.502	E3	7.24
8)		2,6-Dinitrotoluene	2.417	2.931	3.031	2.841	2.894	2.899	2.835	E3	7.57
9)		2-Amino-4,6-Dinitro	2.216	2.863	2.999	2.894	2.987	3.032	2.832	E3	10.90
10)		4-Amino-2,6-Dinitro	3.126	3.059	3.146	2.916	2.937	2.964	3.025	E3	3.28
11)		HMX	1.771	1.923	2.024	1.876	1.871	1.886	1.892	E3	4.34
12)		2,4,6-Trinitrotolue	4.569	4.356	4.667	4.379	4.424	4.509	4.484	E3	2.68
13)	S	3,4-Dinitrotoluene	2.582	2.522	2.749	2.593	2.618	2.697	2.627	E3	3.14
14)		Tetryl	2.903	3.086	3.075	3.021	3.112	3.119	3.053	E3	2.65

Signal #2 Calibration Files
20 =GG002878.D 100 =GG002879.D 200 =GG002880.D
300 =GG002881.D 400 =GG002882.D 500 =GG002883.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		Nitrobenzene	1.899	1.719	1.690	1.635	1.696	1.654	1.715	E3	5.54
2)		1,3-Dinitrobenzene	7.514	7.063	6.967	6.728	6.877	6.911	7.010	E3	3.86
3)		1,3,5-Trinitrobenze	9.801	9.538	9.378	9.078	9.246	9.308	9.392	E3	2.67
4)		RDX	3.983	3.759	3.673	3.578	3.633	3.668	3.716	E3	3.86
5)		o&p-Nitrotoluene	1.157	1.189	1.205	1.147	1.168	1.171	1.173	E3	1.78
6)		m-Nitrotoluene	0.959	1.285	1.333	1.240	1.274	1.268	1.226	E3	10.97
7)		2,4-Dinitrotoluene	4.318	4.869	4.843	4.579	4.674	4.705	4.665	E3	4.32
8)		2,6-Dinitrotoluene	3.387	3.529	3.642	3.429	3.487	3.516	3.498	E3	2.54
9)		2-Amino-4,6-Dinitro	4.012	4.365	4.615	4.486	4.642	4.741	4.477	E3	5.86
10)		4-Amino-2,6-Dinitro	8.087	8.088	7.947	7.548	7.636	7.698	7.834	E3	3.03
11)		HMX	5.645	5.614	5.604	5.285	5.311	5.339	5.466	E3	3.12
12)		2,4,6-Trinitrotolue	6.643	6.575	6.598	6.275	6.320	6.437	6.475	E3	2.38
13)	S	3,4-Dinitrotoluene	3.441	3.576	3.575	3.372	3.405	3.528	3.483	E3	2.55
14)		Tetryl	5.054	5.400	5.597	5.488	5.635	5.689	5.477	E3	4.24

Average % RSD = 4.4

(#) = Out of Range

8330_CN2.M Mon Apr 15 10:25:19 2002

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: GGG154-CC149
Lab FileID: GG003042.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0423CN\GG003042.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0423CN\GG003042.D\DAD1A.CH
Acq On : 23-Apr-2002, 09:57:42 Operator: MIKEE
Sample : CC149-200 Inst : G1315B
Misc : op4980,ggg154,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Wed Apr 24 07:58:24 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		Nitrobenzene	200.000	193.457	3.3	98	0.02
2		1,3-Dinitrobenzene	200.000	199.862	0.1	100	0.02
3		1,3,5-Trinitrobenzene	200.000	193.505	3.2	97	0.02
4		RDX	200.000	195.622	2.2	100	0.02
5		o&p-Nitrotoluene	400.000	413.960	-3.5	101	0.02
6		m-Nitrotoluene	200.000	202.956	-1.5	96	0.02
7		2,4-Dinitrotoluene	200.000	200.735	-0.4	95	0.02
8		2,6-Dinitrotoluene	200.000	206.672	-3.3	97	0.02
9		2-Amino-4,6-Dinitrotoluene	200.000	180.089	10.0	85	0.02
10		4-Amino-2,6-Dinitrotoluene	200.000	207.089	-3.5	100	0.03
11		HMX	200.000	201.182	-0.6	94	0.02
12		2,4,6-Trinitrotoluene	200.000	191.320	4.3	92	0.02
13	S	3,4-Dinitrotoluene	200.000	198.208	0.9	95	0.02
14		Tetryl	200.000	191.794	4.1	95	0.02

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Nitrobenzene	200.000	189.237	5.4	96	0.02
2		1,3-Dinitrobenzene	200.000	203.027	-1.5	102	0.02
3		1,3,5-Trinitrobenzene	200.000	191.247	4.4	96	0.02
4		RDX	200.000	187.240	6.4	95	0.02
5		o&p-Nitrotoluene	400.000	391.621	2.1	95	0.02
6		m-Nitrotoluene	200.000	195.501	2.2	90	0.02
7		2,4-Dinitrotoluene	200.000	191.754	4.1	92	0.02
8		2,6-Dinitrotoluene	200.000	193.473	3.3	93	0.02
9		2-Amino-4,6-Dinitrotoluen	200.000	170.700	14.7	83	0.08
10		4-Amino-2,6-Dinitrotoluen	200.000	200.802	-0.4	99	0.02
11		HMX	200.000	191.244	4.4	93	0.02
12		2,4,6-Trinitrotoluene	200.000	186.054	7.0	91	0.02
13	S	3,4-Dinitrotoluene	200.000	191.345	4.3	93	0.02
14		Tetryl	200.000	192.660	3.7	94	0.02

Average % D = 3.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002880.D 8330_CN2.M Wed Apr 24 08:33:01 2002

Continuing Calibration Summary

Job Number: F12898
Account: ITTNKNOX IT Corporation
Project: Plum Brook Ordnance WKS.
Sample: GGG154-CC149
Lab FileID: GG003049.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0423CN\GG003049.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0423CN\GG003049.D\DAD1A.CH
Acq On : 23-Apr-2002, 14:14:28 Operator: MIKEE
Sample : CC149-300 Inst : G1315B
Misc : op4998,ggg154,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_CN2.M (Chemstation Integrator)
Title : 8330 Confirmation
Last Update : Wed Apr 24 07:58:24 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		Nitrobenzene	300.000	290.923	3.0	101	0.01
2		1,3-Dinitrobenzene	300.000	295.653	1.4	102	0.00
3		1,3,5-Trinitrobenzene	300.000	294.675	1.8	101	0.00
4		RDX	300.000	299.560	0.1	104	0.00
5		o&p-Nitrotoluene	600.000	604.057	-0.7	103	0.00
6		m-Nitrotoluene	300.000	297.000	1.0	99	0.00
7		2,4-Dinitrotoluene	300.000	304.247	-1.4	102	-0.01
8		2,6-Dinitrotoluene	300.000	309.829	-3.3	103	0.00
9		2-Amino-4,6-Dinitrotoluene	300.000	294.805	1.7	96	-0.03
10		4-Amino-2,6-Dinitrotoluene	300.000	300.052	-0.0	104	0.00
11		HMX	300.000	303.888	-1.3	102	0.00
12		2,4,6-Trinitrotoluene	300.000	291.095	3.0	99	-0.02
13	S	3,4-Dinitrotoluene	300.000	295.764	1.4	100	-0.02
14		Tetryl	300.000	297.968	0.7	100	-0.02

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Nitrobenzene	300.000	292.394	2.5	102	0.01
2		1,3-Dinitrobenzene	300.000	295.300	1.6	103	0.00
3		1,3,5-Trinitrobenzene	300.000	294.859	1.7	102	0.00
4		RDX	300.000	298.454	0.5	103	0.00
5		o&p-Nitrotoluene	600.000	600.259	-0.0	102	0.00
6		m-Nitrotoluene	300.000	298.334	0.6	98	0.00
7		2,4-Dinitrotoluene	300.000	299.565	0.1	102	0.00
8		2,6-Dinitrotoluene	300.000	303.576	-1.2	103	0.00
9		2-Amino-4,6-Dinitrotoluen	300.000	275.793	8.1	92	-0.05
10		4-Amino-2,6-Dinitrotoluen	300.000	306.651	-2.2	106	0.00
11		HMX	300.000	294.862	1.7	102	0.00
12		2,4,6-Trinitrotoluene	300.000	287.430	4.2	99	-0.02
13	S	3,4-Dinitrotoluene	300.000	291.552	2.8	100	-0.02
14		Tetryl	300.000	305.141	-1.7	102	-0.02

Average % D = 1.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG002881.D 8330_CN2.M Wed Apr 24 09:02:01 2002

Metals Analysis

QC Data Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
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
10:22	MA2768-ICV1	1		
10:25	MA2768-ICB1	1		
10:31	MA2768-CRI1	1		
10:35	MA2768-ICSA1	1		
10:38	MA2768-ICSA2	1		
10:39	MA2768-ICSAB1	1		
10:42	MA2768-CCV1	1		
10:48	MA2768-CCB1	1		
10:51	F12837-1	1		(sample used for QC only; not part of login F12898)
10:55	MP4335-D1	1		
10:59	MP4335-SD1	5		
11:03	ZZZZZZ	1		
11:07	MP4337-MB1	1		
11:11	MP4337-B1	1		
11:16	F12899-2	1		(sample used for QC only; not part of login F12898)
11:20	MP4337-S1	1		
11:24	MP4337-S2	1		
11:30	MP4337-D1	1		
11:34	MA2768-CCV2	1		
11:39	MA2768-CCB2	1		
11:43	MP4337-SD1	5		
11:47	ZZZZZZ	1		
11:51	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:22	MA2768-CCV3	1		
12:27	MA2768-CCB3	1		
12:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
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
	12:35	ZZZZZZ	1		
	12:39	ZZZZZZ	1		
	12:43	F12898-1	1		
	12:47	F12898-1A	1		
---------->	Last reportable sample/prep for job F12898				
	12:51	ZZZZZZ	1		
	12:55	ZZZZZZ	1		
	12:59	ZZZZZZ	1		
	13:02	ZZZZZZ	1		
	13:06	ZZZZZZ	1		
	13:10	MA2768-CCV4	1		
	13:15	MA2768-CCB4	1		
---------->	Last reportable CCB for job F12898				
	13:19	MP4338-MB1	1		
	13:23	MP4338-B1	1		
	13:28	F12897-1	1		(sample used for QC only; not part of login F12898)
	13:32	MP4338-S1	1		
	13:37	MP4338-D1	1		
	13:41	MP4338-SD1	5		
	13:45	ZZZZZZ	1		
	13:49	ZZZZZZ	1		
	13:53	ZZZZZZ	1		
	13:57	ZZZZZZ	1		
	14:01	MA2768-CCV5	1		
	14:06	MA2768-CCB5	1		
	14:10	ZZZZZZ	1		
	14:14	ZZZZZZ	1		
	14:18	ZZZZZZ	1		
	14:22	MA2768-CCV6	1		
	14:27	MA2768-CCB6	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2768 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	7.2	<200	34.5	<200<	27.8	<200<	34.2	<200<
Antimony	0.0050	1.52	3.1	<5.0	1.5	<5.0	1.9	<5.0	0.70	<5.0
Arsenic	0.010	2.83	0.52	<10	0.020	<10	0.45	<10	0.90	<10
Barium	200	.49	0.25	<200	0.0	<200	0.080	<200	0.20	<200
Beryllium	5.0	.26	0.16	<5.0	-0.17	<5.0	0.23	<5.0	0.42	<5.0
Cadmium	5.0	.26	0.33	<5.0	-0.12	<5.0	0.010	<5.0	-0.040	<5.0
Calcium	1000	3.82	4.5	<1000	20.6	<1000	12.8	<1000	16.7	<1000
Chromium	10	.43	0.38	<10	-0.090	<10	-0.040	<10	-0.38	<10
Cobalt	50	.5	0.34	<50	-0.10	<50	-0.040	<50	-0.21	<50
Copper	25	.44	0.50	<25	0.21	<25	0.13	<25	-0.10	<25
Iron	300	7.11	10.5	<300	20.8	<300	18.2	<300	11.8	<300
Lead	0.0050	1.22	3.4	<5.0	2.9	<5.0	2.8	<5.0	1.8	<5.0
Magnesium	5000	9.88	7.6	<5000	17.2	<5000	11.2	<5000	10.5	<5000
Manganese	15	.16	0.23	<15	0.0	<15	0.0	<15	0.060	<15
Molybdenum	50	.75								
Nickel	40	1.08	0.050	<40	0.85	<40	-0.30	<40	-0.15	<40
Potassium	5000	13.9	671	<5000<	686	<5000<	704	<5000<	658	<5000<
Selenium	0.010	1.98	3.5	<10	3.1	<10	3.3	<10	0.24	<10
Silver	10	.55	0.47	<10	1.3	<10	0.92	<10	-1.6	<10
Sodium	5000	145	164	<5000	64.6	<5000	75.1	<5000	-180	<5000
Thallium	0.010	1.49	-2.1	<10	-1.1	<10	-2.3	<10	-0.59	<10
Tin	50	2.18								
Vanadium	50	.47	0.21	<50	-0.16	<50	-0.090	<50	-0.47	<50
Zinc	20	.59	0.15	<20	0.90	<20	1.1	<20	0.030	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2768 Units: mg/l

Metal	RL	IDL	CCB raw	final
Aluminum	200	6.56	23.3	<200<
Antimony	0.0050	1.52	1.0	<5.0
Arsenic	0.010	2.83	1.3	<10
Barium	200	.49	0.17	<200
Beryllium	5.0	.26	0.14	<5.0
Cadmium	5.0	.26	-0.060	<5.0
Calcium	1000	3.82	23.5	<1000
Chromium	10	.43	0.17	<10
Cobalt	50	.5	-0.070	<50
Copper	25	.44	0.29	<25
Iron	300	7.11	19.8	<300
Lead	0.0050	1.22	2.8	<5.0
Magnesium	5000	9.88	11.9	<5000
Manganese	15	.16	0.090	<15
Molybdenum	50	.75		
Nickel	40	1.08	-0.76	<40
Potassium	5000	13.9	692	<5000<
Selenium	0.010	1.98	2.6	<10
Silver	10	.55	1.1	<10
Sodium	5000	145	38.5	<5000
Thallium	0.010	1.49	-0.12	<10
Tin	50	2.18		
Vanadium	50	.47	0.040	<50
Zinc	20	.59	0.79	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	40200	100.5	40	40300	100.8	40	39700	99.3
Antimony	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Arsenic	2.0	2030	101.5	2.0	2020	101.0	2.0	2060	103.0
Barium	2.0	2060	103.0	2.0	2060	103.0	2.0	2040	102.0
Beryllium	2.0	2040	102.0	2.0	2030	101.5	2.0	2060	103.0
Cadmium	2.0	1960	98.0	2.0	1950	97.5	2.0	2000	100.0
Calcium	40	42200	105.5	40	41800	104.5	40	43000	107.5
Chromium	2.0	2070	103.5	2.0	2060	103.0	2.0	2100	105.0
Cobalt	2.0	2010	100.5	2.0	2000	100.0	2.0	2040	102.0
Copper	2.0	2000	100.0	2.0	2000	100.0	2.0	1980	99.0
Iron	40	41400	103.5	40	41200	103.0	40	41800	104.5
Lead	2.0	2050	102.5	2.0	2030	101.5	2.0	2080	104.0
Magnesium	40	41600	104.0	40	41400	103.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2100	105.0
Molybdenum									
Nickel	2.0	2070	103.5	2.0	2050	102.5	2.0	2090	104.5
Potassium	40	40400	101.0	40	40300	100.8	40	39700	99.3
Selenium	2.0	2090	104.5	2.0	2080	104.0	2.0	2120	106.0
Silver	0.25	246	98.4	0.25	243	97.2	0.25	244	97.6
Sodium	40	38300	95.8	40	38000	95.0	40	37800	94.5
Thallium	2.0	2020	101.0	2.0	2010	100.5	2.0	2030	101.5
Tin									
Vanadium	2.0	2070	103.5	2.0	2060	103.0	2.0	2080	104.0
Zinc	2.0	2070	103.5	2.0	2060	103.0	2.0	2150	107.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2768 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40	39900	99.8	40	39800	99.5
Antimony	2.0	2090	104.5	2.0	2080	104.0
Arsenic	2.0	2080	104.0	2.0	2070	103.5
Barium	2.0	2050	102.5	2.0	2030	101.5
Beryllium	2.0	2070	103.5	2.0	2080	104.0
Cadmium	2.0	2000	100.0	2.0	2010	100.5
Calcium	40	43200	108.0	40	43200	108.0
Chromium	2.0	2100	105.0	2.0	2110	105.5
Cobalt	2.0	2060	103.0	2.0	2050	102.5
Copper	2.0	1980	99.0	2.0	1970	98.5
Iron	40	41900	104.8	40	41900	104.8
Lead	2.0	2090	104.5	2.0	2050	102.5
Magnesium	40	42100	105.3	40	41900	104.8
Manganese	2.0	2110	105.5	2.0	2100	105.0
Molybdenum						
Nickel	2.0	2100	105.0	2.0	2100	105.0
Potassium	40	39800	99.5	40	39600	99.0
Selenium	2.0	2150	107.5	2.0	2090	104.5
Silver	0.25	244	97.6	0.25	246	98.4
Sodium	40	37800	94.5	40	38200	95.5
Thallium	2.0	2030	101.5	2.0	2030	101.5
Tin						
Vanadium	2.0	2090	104.5	2.0	2080	104.0
Zinc	2.0	2170	108.5	2.0	2170	108.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2768 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		373	93.3
Antimony	0.010		11.3	113.0
Arsenic	0.020		18.4	92.0
Barium	0.40		404	101.0
Beryllium	0.010		10.1	101.0
Cadmium	0.010		9.6	96.0
Calcium	2.0		2040	102.0
Chromium	0.020		20.4	102.0
Cobalt	0.10		99.9	99.9
Copper	0.050		47.7	95.4
Iron	0.60		599	99.8
Lead	0.010		13.4	130.0
Magnesium	10		9680	96.8
Manganese	0.030		30.2	100.7
Molybdenum	0.10			
Nickel	0.080		86.1	107.6
Potassium	10		9430	94.3
Selenium	0.010		10.8	108.0
Silver	0.020		19.0	95.0
Sodium	10		8120	81.2
Thallium	0.020		15.1	75.5
Tin	0.10			
Vanadium	0.10		103	103.0
Zinc	0.040		40.2	100.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			517000	103.4	505000	101.0
Antimony		1.0			-0.080		1100	110.0
Arsenic		1.0			0.040		1050	105.0
Barium		0.50			1.3		537	107.4
Beryllium		0.50			-1.2		524	104.8
Cadmium		1.0			-1.1		919	91.9
Calcium	500	500			471000	94.2	461000	93.2
Chromium		0.50			2.9		521	104.2
Cobalt		0.50			0.42		518	103.6
Copper		0.50			-17		585	117.0
Iron	200	200			201000	100.5	195000	97.5
Lead		1.0			1.0		974	97.4
Magnesium	500	500			533000	106.6	520000	104.0
Manganese		0.50			-0.68		553	110.6
Molybdenum		1.0			-2.2		995	99.5
Nickel		1.0			-0.65		973	97.3
Potassium					658		3830	
Selenium		1.0			2.4		1050	105.0
Silver		1.0			0.32		1070	107.0
Sodium					140		2700	
Thallium		1.0			-5.5		999	99.9
Tin		1.0			-2.1		1000	100.0
Vanadium		0.50			1.5		509	101.8
Zinc		1.0			-2.2		933	93.3

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
Analyst: LIR Run ID: MA2770
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2770-ICV1	1		
00:00	MA2770-ICB1	1		
00:00	MA2770-CCV1	1		
00:00	MA2770-CCB1	1		
00:00	MA2770-CRI1	1		
00:00	MP4341-MB1	1		
00:00	MP4341-B1	1		
00:00	MP4341-S1	1		
00:00	MP4341-S2	1		
00:00	MP4341-D1	1		
00:00	F12898-1	1		
00:00	F12898-1A	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	MA2770-CCV2	1		
00:00	MA2770-CCB2	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	MA2770-CCV3	1		
00:00	MA2770-CCB3	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA2770 Units: ug/l

Metal	RL	IDL	ICB raw	ICB final	CCB raw	CCB final	CCB raw	CCB final	CCB raw	CCB final
Mercury	1.0	.06	-0.0011	<1.0	-0.0011	<1.0	-0.0011	<1.0	-0.0011	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2770 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.3	110.0	3.0	3.3	110.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2770 Units: ug/l

Metal	CCV True	CCV Results	% Rec
Mercury	3.0	3.1	103.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

File ID: HG0416W1.HGX Date Analyzed: 04/16/02 Methods: SW846 7470A
QC Limits: to % Recovery Run ID: MA2770 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.50		0.66	132.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	-1.7	<200
Antimony	5.0	1.52	-3.4	<5.0
Arsenic	10	2.83	-2.3	<10
Barium	200	.49	-0.28	<200
Beryllium	5.0	.26	-0.080	<5.0
Cadmium	5.0	.26	-0.41	<5.0
Calcium	1000	3.82	6.0	<1000
Chromium	10	.43	-0.97	<10
Cobalt	50	.5	-1.4	<50
Copper	25	.44	-1.9	<25
Iron	300	7.11	-75	<300
Lead	5.0	1.22	2.5	<5.0
Magnesium	5000	9.88	-11	<5000
Manganese	15	.16	-1.4	<15
Molybdenum	50	.75		
Nickel	40	1.08	-1.8	<40
Potassium	5000	13.9	651	<5000
Selenium	10	1.98	0.92	<10
Silver	10	.55	-0.23	<10
Sodium	5000	145	-220	<5000
Thallium	10	1.49	-5.4	<10
Tin	50	2.18		
Vanadium	50	.47	-0.99	<50
Zinc	20	.59	15.1	<20

Associated samples MP4337: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			04/15/02					04/15/02		
Metal	F12899-2 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12899-2 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	241	28100	29000	96.1	70-122	241	27700	29000	94.7	70-122
Antimony	0.0	819	1000	81.9	66-120	0.0	809	1000	80.9	66-120
Arsenic	0.0	3880	4000	97.0	75-120	0.0	3820	4000	95.5	75-120
Barium	5.3	3880	4000	96.9	72-120	5.3	3820	4000	95.4	72-120
Beryllium	0.0	102	100	102.0	73-120	0.0	101	100	101.0	73-120
Cadmium	0.0	96.8	100	96.8	72-120	0.0	95.6	100	95.6	72-120
Calcium	14400	38700	25000	97.2	37-150	14400	38800	25000	97.6	37-150
Chromium	0.0	407	400	101.8	69-122	0.0	401	400	100.3	69-122
Cobalt	0.0	997	1000	99.7	69-120	0.0	982	1000	98.2	69-120
Copper	5.8	504	500	99.6	70-120	5.8	496	500	98.0	70-120
Iron	429	27700	27000	101.0	72-122	429	27500	27000	100.3	72-122
Lead	2.8	1020	1000	101.7	70-126	2.8	993	1000	99.0	70-126
Magnesium	1230	25100	25000	95.5	73-127	1230	24900	25000	94.7	73-127
Manganese	4.3	1030	1000	102.6	74-122	4.3	1020	1000	101.6	74-122
Molybdenum										
Nickel	0.0	1010	1000	101.0	69-120	0.0	994	1000	99.4	69-120
Potassium	1650	25400	25000	95.0	61-122	1650	25200	25000	94.2	61-122
Selenium	3.1	3990	4000	99.7	74-120	3.1	3910	4000	97.7	74-120
Silver	0.0	97.2	100	97.2	52-126	0.0	95.2	100	95.2	52-126
Sodium	2210	24900	25000	90.8	56-130	2210	24700	25000	90.0	56-130
Thallium	0.0	4120	4000	103.0	80-122	0.0	4070	4000	101.8	80-122
Tin										
Vanadium	1.3	1010	1000	100.9	75-122	1.3	998	1000	99.7	75-122
Zinc	1.1	1030	1000	102.9	68-123	1.1	1010	1000	100.9	68-123

Associated samples MP4337: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	F12899-2 Original	DUP	RPD	QC Limits
Aluminum	241	231	4.2	0-23
Antimony	0.0	0.0	NC	0-20
Arsenic	0.0	0.0	NC	0-29
Barium	5.3	5.4	1.9	0-20
Beryllium	0.0	0.0	NC	0-25
Cadmium	0.0	0.0	NC	0-20
Calcium	14400	14700	2.1	0-20
Chromium	0.0	0.49	200.0(a)	0-47
Cobalt	0.0	0.0	NC	0-30
Copper	5.8	5.8	0.0	0-21
Iron	429	443	3.2	0-23
Lead	2.8	2.6	7.4	0-44
Magnesium	1230	1250	1.6	0-20
Manganese	4.3	4.9	13.0	0-30
Molybdenum				
Nickel	0.0	0.0	NC	0-56
Potassium	1650	1660	0.6	0-20
Selenium	3.1	2.8	10.2	0-36
Silver	0.0	0.0	NC	0-20
Sodium	2210	2200	0.5	0-20
Thallium	0.0	0.0	NC	0-26
Tin				
Vanadium	1.3	1.5	14.3	0-28
Zinc	1.1	3.6	106.4(a)	0-54

Associated samples MP4337: F12898-1, F12898-1A

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.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	28400	29000	97.9	80-120
Antimony	839	1000	83.9	80-120
Arsenic	3950	4000	98.8	80-120
Barium	3970	4000	99.3	80-120
Beryllium	105	100	105.0	80-120
Cadmium	99.0	100	99.0	80-120
Calcium	25400	25000	101.6	80-120
Chromium	415	400	103.8	80-120
Cobalt	1020	1000	102.0	80-120
Copper	509	500	101.8	80-120
Iron	28000	27000	103.7	80-120
Lead	1030	1000	103.0	80-120
Magnesium	24400	25000	97.6	80-120
Manganese	1050	1000	105.0	80-120
Molybdenum				
Nickel	1030	1000	103.0	80-120
Potassium	24400	25000	97.6	80-120
Selenium	4060	4000	101.5	80-120
Silver	98.0	100	98.0	80-120
Sodium	22800	25000	91.2	80-120
Thallium	4190	4000	104.8	80-120
Tin				
Vanadium	1030	1000	103.0	80-120
Zinc	1050	1000	105.0	80-120

Associated samples MP4337: F12898-1, F12898-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	F12899-2 Original	SDL 1:5	RPD	QC Limits
Aluminum	241	257	6.5	0-10
Antimony	0.00	12.6		0-10
Arsenic	0.00	0.00	NC	0-10
Barium	5.27	5.13	2.7	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	14400	14700	2.2	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	5.81	0.00	100.0(a)	0-10
Iron	429	201	53.1*(b)	0-10
Lead	2.82	6.67	136.5(a)	0-10
Magnesium	1230	1250	1.6	0-10
Manganese	4.29	0.00	100.0(a)	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	1650	4350	163.5*(b	0-10
Selenium	3.09	12.2	295.1(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	2210	3580	62.2 (a)	0-10
Thallium	0.00	0.00	NC	0-10
Tin				
Vanadium	1.25	0.00	100.0(a)	0-10
Zinc	1.13	0.00	100.0(a)	0-10

Associated samples MP4337: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.06	-0.0011	<1.0

Associated samples MP4341: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02 04/15/02

Metal	F12898-1 Original	DUP	RPD	QC Limits	F12898-1 Original	MS	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.54	0.51	5.7	0-20	0.54	3.7	3	105.3	62-131

Associated samples MP4341: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02

Metal	F12898-1 Original	MSD	Spikelot HGFLWS	% Rec	QC Limits
Mercury	0.54	3.7	3	105.3	62-131

Associated samples MP4341: F12898-1, F12898-1A

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: F12898
Account: ITTNKNOX - IT Corporation
Project: ITTNKNOX3295 - Plum Brook Ordnance WKS.

QC Batch ID: MP4341
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/15/02

Metal	BSP Result	Spikelot HGFLWS	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP4341: F12898-1, F12898-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

F128878

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 04122002A

Project Number: 825635
Samples Shipment Date: 12 APR 2002
Project Name: PLUM BROOK ORDNANCE WKS
Lab Destination: Accutest Laboratories
Sample Coordinator: Don Dill
Lab Contact: Sue Bell
Turnaround Time:
Project Contact: Maureen McMyler
Carrier/Waybill No.: Fed Ex/827069095365

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Maureen McMyler
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [Y]

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

1. Relinquished By (Signature/Affiliation) D M Bell Date: 4/12/02 Time: 1800
1. Received By (Signature/Affiliation) MIRANDA GANPAT Miranda Ganpat Date: 4/13/02 Time: 0930
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
1	CB3047	PBOW-02-GW-MK-MW17-CB3047-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3<pH 2	TAL Metals by SW-846 6010B/7470A in water	N		
	CB3047	PBOW-02-GW-MK-MW17-CB3047-0-0	12 APR 2002	13:05	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330	N		
	CB3047	PBOW-02-GW-MK-MW17-CB3047-0-0	12 APR 2002	13:05	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		
	CB3047	PBOW-02-GW-MK-MW17-CB3047-0-0	12 APR 2002	13:05	500 mL HDPE	1	HNO3<pH 2	Filtered TAL Metals by SW-846 6010B/7470A in water	N		
	CB3047	PBOW-02-GW-MK-MW17-CB3047-0-0	12 APR 2002	13:05	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270C	N		
2	CB5017	PBOW-02-BW-FIELDQC-CB5017-0-0	12 APR 2002	18:00	40 mL GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260B	N		

180

SET 2

Southeast ACCUTEST Laboratories

07/26/02

Technical Report for

Shaw E & I, Inc.

PBOW

825635

Accutest Job Number: F13829

Report to:

Shaw E & I, Inc.
312 Directors Drive
Knoxville, TN 37923

ATTN: Maureen McMyler

Total number of pages in report: 468

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.

H Behzadi

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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SECTION 3

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Shaw E & I, Inc.
Site: PBOW
Report Date: July 26, 2002
Job Number: F13829

2 samples were collected on July 11, 2002, and received on July 12, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.
A cyanide bottle was not received for sample CC3007. Per Vicki Graves on 07/15/02, the sample was not collected for Cyanide.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs: SW-846, 8260B:

- The MS/MSD associated with analytical batch VC475 had various RPDs above acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Metals: SW-846, 6010B:

- The MS/MSD associated with analytical batch MP4570 had various RPDs above acceptance limits. Some RPDs were found to be acceptable due to low duplicate and sample concentration. Other RPDs were high due to possible sample nonhomogeneity. The Blank Spike was within limits. Data not adversely affected.
- The Serial Dilution associated with analytical batch MP4570 had various RPDs above acceptance limits. Some RPDs were found to be acceptable due to low duplicate and sample concentration. Other RPDs were high due to possible interference. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: July 26, 2002

Sue O. Bell, Project Manager (signature on file)

0005

SECTION 4

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: 2B339

Client/Project: [illegible]

Date/Time Received: [illegible] Total Number of Coolers: [illegible]

Method of Delivery: FedEx Greyhound UPS Pickup Delivery Other

Air Bill Number: [illegible]

Cooler Temperatures: [illegible]

Custody Seals Intact?	YES	NO	
Trip Blank Provided?	YES	NO	
Trip Blank On COC?	YES	NO	
Trip Blank Intact?	YES	NO	NA
Chain Of Custody Provided?	YES	NO	
Chain Of Custody Match Bottles?	YES	NO	
Sample Labels Present?	YES	NO	
Are All Bottles Unbroken?	YES	NO	
Are All Appropriate Samples Preserved?	YES	NO	
Correct Containers Used?	YES	NO	
Sufficient Sample Volume?	YES	NO	

Number of Encores: [illegible]

COMMENTS:

[illegible]

Signature: [illegible] Date: [illegible]

Revised 04/24/02 ASBD

SECTION 5

F13829

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB07 11 02ACCL

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: David Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 825635
Required Report Date: *Faxed results in 3 days*

Sample Shipment Date: 7/11/02
Laboratory Destination: Accutest Lab
Laboratory Contact: Sure Bell/407-425-6700
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 833154266900

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
1	CC 3007	WATER	7/11/02 1115	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by SW-846 8260B		
		WATER		2 - Amber	1000 mL	Cool	TCL SVOCs by SW-846 8270C		
		WATER		1 - Amber	1000 mL	Cool	Nitroaromatics by SW-846 8330		
		WATER		1 - HDPE	250 mL	Cool/HNO3	Filtered TAL Metals by SW-846 6010B/7470A in water		
		WATER		1 - HDPE	250 mL	Cool/HNO3	TAL Metals by SW-846 6010B/7470A in water		
		WATER		1 - HDPE	500 mL	Cool/NaOH	Total Cyanide by 9010A		
							DKK		
2	CC 5003 (TRIP)	WATER	~~7/11/02~~ DKK	3 - VIAL	40 mL	Cool/HCL	TCL VOCs by 8260B		
							DKK		

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: X

Level of QC Required:
Definitive Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 7/11/02 Time: 1800	1. Received by: Miranda Grampt	Date: 7/12/02 Time: 1011
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

6000

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SECTION 6

Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F13829

PBOW
Project No: 825635

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F13829-1	07/11/02	11:15 DK	07/12/02	AQ	Ground Water	CC3007
F13829-2	07/11/02	00:00 DK	07/12/02	AQ	Trip Blank Water	CC5003
F13829-1A	07/11/02	11:15 DK	07/12/02	AQ	Groundwater Filtered	CC3007

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0010558.D	1	07/15/02	JG	n/a	n/a	VC475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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-Tetrachloroethane	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	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010924.D	1	07/17/02	ME	07/15/02	OP5479	SW595
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN TCL List

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 phenol	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	9.9	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PBOW		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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	
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'-Dichlorobenzidine	ND	9.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		20-125%
4165-62-2	Phenol-d5	40%		10-125%
118-79-6	2,4,6-Tribromophenol	98%		35-140%

ND = Not detected
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
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	94%		46-125%
321-60-8	2-Fluorobiphenyl	95%		46-125%
1718-51-0	Terphenyl-d14	124%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG003760.D	1	07/16/02	MRE	07/15/02	OP5484	GGG194
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.19	ug/l	
121-82-4	RDX	ND	0.19	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.19	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.19	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.19	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.19	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.19	ug/l	
98-95-3	Nitrobenzene	ND	0.19	ug/l	
88-72-2	o-Nitrotoluene	ND	0.19	ug/l	
99-08-1	m-Nitrotoluene	ND	0.19	ug/l	
99-99-0	p-Nitrotoluene	ND	0.19	ug/l	
479-45-8	Tetryl	ND	0.19	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.19	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	91%		58-131%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1	**Date Sampled:**	07/11/02
Matrix:	AQ - Ground Water	**Date Received:**	07/12/02
		Percent Solids:	n/a
Project:	PBOW		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	492	200	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Calcium	191000	1000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Iron	704	300	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	73900	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Manganese	97.8	15	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	07/16/02	07/23/02	SJL	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Potassium	16300	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Sodium	101000	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC3007		
Lab Sample ID:	F13829-1A	**Date Sampled:**	07/11/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/02
		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	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Barium	<200	200	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Calcium	194000	1000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Iron	<300	300	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	74100	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Manganese	93.2	15	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	07/16/02	07/23/02	SJL	SW846 7470A	EPA 245.1
Nickel	<40	40	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Potassium	16100	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Sodium	104000	5000	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	07/15/02	07/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CC5003		
Lab Sample ID:	F13829-2	**Date Sampled:**	07/11/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C0010552.D	1	07/15/02	JG	n/a	n/a	VC475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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	13.1	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-Tetrachloroethane	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	3.3	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC5003		
Lab Sample ID:	F13829-2	**Date Sampled:**	07/11/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SECTION 7

SURROGATE RECOVERIES SUMMARY

VOC.02

Volatile Surrogate Recovery Summary

Job Number: F13829
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
F13829-1	C0010558.D	101.0	94.0	99.0	100.0
F13829-2	C0010552.D	98.0	93.0	100.0	99.0
F13824-1MS	C0010561.D	102.0	96.0	99.0	100.0
F13824-1MSD	C0010562.D	101.0	91.0	99.0	102.0
VC475-BS	C0010560.D	101.0	91.0	100.0	103.0
VC475-MB	C0010548.D	95.0	87.0	99.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

METHOD BLANK SUMMARY

VOC.03

Method Blank Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC475-MB	C0010548.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

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-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	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-Tetrachloroethane	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: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC475-MB	C0010548.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

BLANK SPIKE SUMMARY

VOC.04

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC475-BS	C0010560.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	91.9	74	67-125
71-43-2	Benzene	25	26.6	106	75-125
75-27-4	Bromodichloromethane	25	25.1	100	75-125
75-25-2	Bromoform	25	19.6	78	72-125
108-90-7	Chlorobenzene	25	24.9	100	75-125
75-00-3	Chloroethane	25	25.3	101	58-136
67-66-3	Chloroform	25	26.5	106	75-125
75-15-0	Carbon disulfide	125	146	117	48-142
56-23-5	Carbon tetrachloride	25	25.9	104	75-136
75-34-3	1,1-Dichloroethane	25	26.3	105	75-125
75-35-4	1,1-Dichloroethylene	25	24.8	99	67-138
107-06-2	1,2-Dichloroethane	25	22.0	88	75-125
78-87-5	1,2-Dichloropropane	25	27.6	110	75-125
124-48-1	Dibromochloromethane	25	23.2	93	75-125
156-59-2	cis-1,2-Dichloroethylene	25	27.0	108	75-129
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	75-125
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	73-125
10061-02-6	trans-1,3-Dichloropropene	25	20.5	82	75-125
100-41-4	Ethylbenzene	25	24.8	99	68-135
591-78-6	2-Hexanone	125	99.1	79	68-125
108-10-1	4-Methyl-2-pentanone	125	101	81	75-125
74-83-9	Methyl bromide	25	26.2	105	59-146
74-87-3	Methyl chloride	25	24.8	99	50-142
75-09-2	Methylene chloride	25	23.1	92	69-125
78-93-3	Methyl ethyl ketone	125	98.1	78	70-125
100-42-5	Styrene	25	27.1	108	75-125
71-55-6	1,1,1-Trichloroethane	25	27.1	108	75-132
79-34-5	1,1,2,2-Tetrachloroethane	25	21.7	87	75-125
79-00-5	1,1,2-Trichloroethane	25	22.9	92	75-125
127-18-4	Tetrachloroethylene	25	26.5	106	75-126
108-88-3	Toluene	25	25.7	103	75-125
79-01-6	Trichloroethylene	25	26.0	104	75-125
75-01-4	Vinyl chloride	25	23.2	93	60-147
1330-20-7	Xylene (total)	75	75.6	101	75-125

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC475-BS	C0010560.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	103%	80-120%

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

VOC.05

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F13824-1MS	C0010561.D	1	07/15/02	JG	n/a	n/a	VC475
F13824-1MSD	C0010562.D	1	07/15/02	JG	n/a	n/a	VC475
F13824-1	C0010555.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

CAS No.	Compound	F13824-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	105	84	84.9	68	21*	61-125/15
71-43-2	Benzene	ND		25	26.5	106	25.5	102	4	75-125/15
75-27-4	Bromodichloromethane	ND		25	24.4	98	24.1	96	1	75-125/15
75-25-2	Bromoform	ND		25	20.8	83	18.4	74	12	66-125/15
108-90-7	Chlorobenzene	ND		25	24.9	100	24.3	97	2	75-125/15
75-00-3	Chloroethane	ND		25	25.3	101	25.1	100	1	53-125/15
67-66-3	Chloroform	ND		25	26.2	105	25.4	102	3	75-125/15
75-15-0	Carbon disulfide	ND		125	146	117	140	112	4	51-138/15
56-23-5	Carbon tetrachloride	ND		25	26.4	106	25.4	102	4	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	26.2	105	25.3	101	3	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	25.4	102	24.7	99	3	66-140/15
107-06-2	1,2-Dichloroethane	ND		25	22.9	92	21.4	86	7	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.9	108	26.3	105	2	75-125/15
124-48-1	Dibromochloromethane	ND		25	23.6	94	21.9	88	7	75-125/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.3	105	25.8	103	2	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.1	92	21.9	88	5	71-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.8	103	24.6	98	5	73-125/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	21.2	85	19.6	78	8	62-125/15
100-41-4	Ethylbenzene	ND		25	24.6	98	24.0	96	2	75-125/15
591-78-6	2-Hexanone	ND		125	129	103	107	86	19*	71-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	128	102	107	86	18*	75-125/15
74-83-9	Methyl bromide	ND		25	26.2	105	26.0	104	1	67-146/15
74-87-3	Methyl chloride	ND		25	24.6	98	23.5	94	5	47-160/15
75-09-2	Methylene chloride	ND		25	22.8	91	22.2	89	3	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	114	91	93.3	75	20*	70-125/15
100-42-5	Styrene	ND		25	27.2	109	26.0	104	5	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	27.1	108	26.7	107	1	75-131/15
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.5	94	20.2	81	15	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	23.6	94	21.6	86	9	75-125/15
127-18-4	Tetrachloroethylene	ND		25	26.2	105	25.6	102	2	75-125/15
108-88-3	Toluene	ND		25	25.4	102	24.5	98	4	75-125/15
79-01-6	Trichloroethylene	ND		25	26.1	104	24.6	98	6	75-125/15
75-01-4	Vinyl chloride	ND		25	23.6	94	23.0	92	3	52-169/15
1330-20-7	Xylene (total)	ND		75	74.9	100	73.5	98	2	75-125/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F13824-1MS	C0010561.D	1	07/15/02	JG	n/a	n/a	VC475
F13824-1MSD	C0010562.D	1	07/15/02	JG	n/a	n/a	VC475
F13824-1	C0010555.D	1	07/15/02	JG	n/a	n/a	VC475

The QC reported here applies to the following samples: **Method:** SW846 8260B

F13829-1, F13829-2

CAS No.	Surrogate Recoveries	MS	MSD	F13824-1	Limits
1868-53-7	Dibromofluoromethane	102%	101%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	96%	91%	97%	80-120%
2037-26-5	Toluene-D8	99%	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	100%	102%	98%	80-120%

INSTRUMENT PERFORMANCE CHECK (BFB)

VOC.07

Instrument Performance Check (BFB)

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample:	VC475-BFB	**Injection Date:**	07/15/02
Lab File ID:	C0010545.D	**Injection Time:**	08:07
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9817	18.3	Pass
75	30.0 - 60.0% of mass 95	26114	48.6	Pass
95	Base peak, 100% relative abundance	53698	100.0	Pass
96	5.0 - 9.0% of mass 95	3698	6.9	Pass
173	Less than 2.0% of mass 174	86	0.16 (0.19) [a]	Pass
174	50.0 - 100.0% of mass 95	44584	83.0	Pass
175	5.0 - 9.0% of mass 174	2820	5.3 (6.3) [a]	Pass
176	95.0 - 101.0% of mass 174	42394	78.9 (95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2875	5.4 (6.8) [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
VC475-CC470	C0010546.D	07/15/02	09:06	00:59	Continuing cal 40PPB
VC475-MB	C0010548.D	07/15/02	10:04	01:57	Method Blank
ZZZZZZ	C0010549.D	07/15/02	10:32	02:25	(unrelated sample)
ZZZZZZ	C0010550.D	07/15/02	11:00	02:53	(unrelated sample)
ZZZZZZ	C0010551.D	07/15/02	11:28	03:21	(unrelated sample)
F13829-2	C0010552.D	07/15/02	11:56	03:49	CC5003
ZZZZZZ	C0010554.D	07/15/02	12:54	04:47	(unrelated sample)
F13824-1	C0010555.D	07/15/02	13:22	05:15	(used for QC only; not part of job F13829)
ZZZZZZ	C0010556.D	07/15/02	13:50	05:43	(unrelated sample)
ZZZZZZ	C0010557.D	07/15/02	14:18	06:11	(unrelated sample)
F13829-1	C0010558.D	07/15/02	14:46	06:39	CC3007
ZZZZZZ	C0010559.D	07/15/02	15:14	07:07	(unrelated sample)
VC475-BS	C0010560.D	07/15/02	15:42	07:35	Blank Spike
F13824-1MS	C0010561.D	07/15/02	16:11	08:04	Matrix Spike
F13824-1MSD	C0010562.D	07/15/02	16:39	08:32	Matrix Spike Duplicate
ZZZZZZ	C0010563.D	07/15/02	17:07	09:00	(unrelated sample)
ZZZZZZ	C0010564.D	07/15/02	17:35	09:28	(unrelated sample)
ZZZZZZ	C0010569.D	07/15/02	19:55	11:48	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample:	VC470-BFB	**Injection Date:**	07/09/02
Lab File ID:	C0010454.D	**Injection Time:**	12:49
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8329	18.5		Pass
75	30.0 - 60.0% of mass 95	22493	49.9		Pass
95	Base peak, 100% relative abundance	45120	100.0		Pass
96	5.0 - 9.0% of mass 95	3345	7.4		Pass
173	Less than 2.0% of mass 174	68	0.15	(0.18) [a]	Pass
174	50.0 - 100.0% of mass 95	37490	83.1		Pass
175	5.0 - 9.0% of mass 174	2735	6.1	(7.3) [a]	Pass
176	95.0 - 101.0% of mass 174	35922	79.6	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2477	5.5	(6.9) [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
VC470-IC470	C0010455.D	07/09/02	13:21	00:32	Initial cal 1PPB
VC470-IC470	C0010456.D	07/09/02	13:49	01:00	Initial cal 5PPB
VC470-IC470	C0010457.D	07/09/02	14:17	01:28	Initial cal 20PPB
VC470-ICC470	C0010458.D	07/09/02	14:45	01:56	Initial cal 40PPB
VC470-IC470	C0010459.D	07/09/02	15:13	02:24	Initial cal 70PPB
VC470-IC470	C0010460.D	07/09/02	15:41	02:52	Initial cal 100PPB
VC470-BS	C0010464.D	07/09/02	17:33	04:44	Blank Spike
OP5446-LB	C0010465.D	07/09/02	18:01	05:12	Leachate Blank
ZZZZZZ	C0010466.D	07/09/02	18:29	05:40	(unrelated sample)
F13734-8	C0010467.D	07/09/02	18:56	06:07	(used for QC only; not part of job F13829)
ZZZZZZ	C0010468.D	07/09/02	19:24	06:35	(unrelated sample)
F13734-8MS	C0010469.D	07/09/02	19:52	07:03	Matrix Spike
F13734-8MSD	C0010470.D	07/09/02	20:20	07:31	Matrix Spike Duplicate

INITIAL CALIBRATION

VOC.08

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\2\DATA\070902\C0010454.D
Tune Time : 9 Jul 2002 12:49 pm

Daily Calibration File : C:\MSDCHEM\2\DATA\070902\C0010455.D

File	Sample	Surrogate Recovery %				Internal Standard Responses		
						1140500	960729	603191
No Quant Results for C:\MSDCHEM\2\DATA\070902\C0010454.D								
C0010455.D	IC470-1ppb	101	101	100	100	1140495	960729	603191
C0010456.D	IC470-5ppb	99	100	100	98	1052696	887726	567595
C0010457.D	IC470-20pp	101	102	101	99	1032101	875318	556221
C0010458.D	ICC470-40p	101	100	99	100	1022059	871322	550281
C0010459.D	IC470-70pp	99	100	99	100	1048855	904409	572013
C0010460.D	IC470-100p	99	98	100	102	1082164	927869	580951
C0010461.D	ICV470-40p	100	97	100	99	1089602	928250	579132
C0010462.D	BS	100	97	100	99	1094920	922611	581291
C0010463.D	MB	99	97	100	99	1089307	926559	585331
C0010464.D	BS,0.5ml	101	101	101	99	1060966	898461	571984
C0010465.D	OP5446-LB,	100	98	101	99	1058209	897947	575899
C0010466.D	F13734-7,0	100	100	100	99	1024970	871311	556168
C0010467.D	F13734-8,0	102	101	100	99	1014003	860996	545409
C0010468.D	F13734-14,	102	102	101	99	981847	834614	530220
C0010469.D	F13734-8MS	102	102	99	98	959452	818580	519895
C0010470.D	F13734-8MS	102	103	100	99	964419	822292	525039

t - fails 12hr time check * - fails criteria

Created: Wed Jul 10 09:20:31 2002 MSVOA5

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 2002
Response via : Initial Calibration

Calibration Files
1 =C0010455.D 2 =C0010456.D 3 =C0010457.D
4 =C0010458.D 5 =C0010459.D 6 =C0010460.D

		Compound	1	2	3	4	5	6	Avg	%RS
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet	0.238	0.347	0.367	0.356	0.343	0.310	0.327	14.63
3)	P	Chloromethane	0.282	0.300	0.291	0.282	0.278	0.265	0.283	4.29
4)	C	Vinyl Chloride	0.212	0.282	0.276	0.275	0.269	0.254	0.261	9.86
5)		Bromomethane	0.171	0.172	0.159	0.158	0.152	0.147	0.160	6.28
6)		Chloroethane	0.100	0.131	0.135	0.134	0.130	0.127	0.126	10.43
7)		Trichlorofluorometh	0.353	0.475	0.498	0.501	0.488	0.460	0.462	12.05
8)		Acrolein	0.017	0.022	0.023	0.023	0.023	0.022	0.022	9.86
9)	C	1,1-Dichloroethene	0.291	0.386	0.395	0.390	0.381	0.359	0.367	10.67
10)		Freon 113	0.167	0.199	0.220	0.216	0.205	0.188	0.199	9.76
11)		Acetone		0.075	0.072	0.069	0.067	0.065	0.069	6.05
12)		Iodomethane		0.298	0.333	0.350	0.359	0.339	0.336	6.93
13)		Methyl Acetate	0.127	0.163	0.164	0.155	0.151	0.148	0.151	8.96
14)		Carbon Disulfide		0.700	0.703	0.671	0.645	0.608	0.665	5.96
15)		Hexane		0.226	0.219	0.213	0.208	0.190	0.211	6.52
16)		Methylene Chloride		0.383	0.357	0.344	0.329	0.318	0.346	7.23
17)		Tert-Butyl Alcohol	0.014	0.022	0.022	0.021	0.021	0.020	0.020	14.35
18)		trans-1,2-Dichloroe	0.285	0.349	0.336	0.328	0.324	0.305	0.321	7.14
19)		Acrylonitrile	0.063	0.086	0.085	0.079	0.079	0.074	0.078	10.77
20)		Methyl Tert Butyl E	0.503	0.654	0.648	0.628	0.625	0.610	0.611	9.09
21)	P	1,1-Dichloroethane	0.311	0.419	0.403	0.396	0.383	0.364	0.379	10.07
22)		Vinyl acetate	0.614	0.768	0.772	0.730	0.713	0.683	0.713	8.33
23)		Di-isopropyl ether	0.601	0.795	0.788	0.748	0.724	0.691	0.724	9.94
24)		ETBE	0.530	0.712	0.720	0.708	0.703	0.688	0.677	10.75
25)		2,2-Dichloropropane	0.197	0.256	0.267	0.265	0.261	0.235	0.247	10.90
26)		cis-1,2-Dichloroeth	0.214	0.246	0.244	0.235	0.231	0.219	0.232	5.62
27)		2-Butanone	0.081	0.104	0.105	0.099	0.097	0.095	0.097	8.98
28)		Bromochloromethane	0.097	0.130	0.129	0.126	0.123	0.120	0.121	10.29
29)	C	Chloroform	0.380	0.479	0.474	0.461	0.455	0.436	0.448	8.13
30)		Tetrahydrofuran		0.072	0.066	0.060	0.059	0.058	0.063	9.39
31)		1,1,1-Trichloroetha	0.338	0.455	0.454	0.453	0.451	0.417	0.428	10.84
32)		Cyclohexane	0.322	0.357	0.353	0.347	0.342	0.313	0.339	5.22
33)	S	Dibromofluoromethan	0.296	0.292	0.295	0.295	0.291	0.289	0.293	0.93
34)		1,1-Dichloropropene	0.256	0.316	0.316	0.308	0.304	0.285	0.297	7.85
35)		Carbon Tetrachlorid	0.337	0.393	0.407	0.412	0.418	0.390	0.393	7.47
36)	S	1,2-Dichloroethane-	0.385	0.382	0.388	0.381	0.380	0.376	0.382	1.13
37)		Benzene	0.756	0.901	0.863	0.830	0.813	0.764	0.821	6.86
38)		TAME	0.467	0.618	0.620	0.614	0.612	0.601	0.588	10.20
39)		1,2-Dichloroethane	0.463	0.456	0.439	0.422	0.413	0.401	0.432	5.69
40)		Trichloroethene	0.228	0.264	0.262	0.254	0.252	0.237	0.249	5.81
41)		Methylcyclohexane	0.300	0.302	0.286	0.283	0.282	0.257	0.285	5.72
42)	C	1,2-Dichloropropane	0.164	0.231	0.222	0.213	0.209	0.200	0.207	11.32

Average % RSD = 8.34798

(#) = Out of Range

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 2002
Response via : Initial Calibration

Calibration Files
1 =C0010455.D 2 =C0010456.D 3 =C0010457.D
4 =C0010458.D 5 =C0010459.D 6 =C0010460.D

		Compound	1	2	3	4	5	6	Avg	%RS
43)		Dibromomethane	0.125	0.169	0.166	0.158	0.160	0.155	0.156	10.07
44)		1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	1.56
45)		Bromodichloromethan	0.293	0.362	0.368	0.366	0.366	0.358	0.352	8.34
46)		2-Nitropropane		0.055	0.066	0.068	0.070	0.070	0.066	9.67
47)		2-Chloroethyl vinyl	0.073	0.102	0.113	0.112	0.114	0.110	0.104	14.95
48)		4-Methyl-2-pentanon	0.185	0.248	0.244	0.232	0.223	0.215	0.224	10.27
49)		cis-1,3-Dichloropro	0.287	0.379	0.390	0.385	0.389	0.378	0.368	10.85
50)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
51)	S	Toluene-d8	1.152	1.159	1.161	1.145	1.147	1.158	1.154	0.58
52)	C	Toluene	1.036	1.180	1.195	1.142	1.122	1.066	1.123	5.57
53)		trans-1,3-Dichlorop	0.339	0.424	0.453	0.449	0.452	0.446	0.427	10.42
54)		1,1,2-Trichloroetha	0.166	0.211	0.210	0.198	0.198	0.194	0.196	8.41
55)		Tetrachloroethene	0.301	0.340	0.329	0.317	0.311	0.291	0.315	5.72
56)		2-hexanone	0.138	0.203	0.203	0.193	0.184	0.179	0.183	13.12
57)		1,3-Dichloropropane	0.352	0.458	0.439	0.421	0.411	0.396	0.413	8.94
58)		Dibromochloromethan	0.247	0.329	0.342	0.341	0.346	0.339	0.324	11.81
59)		1,2-Dibromoethane	0.210	0.297	0.301	0.291	0.288	0.281	0.278	12.27
60)		1-Chlorohexane	0.305	0.356	0.359	0.360	0.355	0.333	0.345	6.36
61)	P	Chlorobenzene	0.739	0.876	0.863	0.845	0.824	0.790	0.823	6.18
62)		1,1,1,2-Tetrachloro	0.264	0.338	0.350	0.343	0.333	0.326	0.326	9.57
63)	C	Ethylbenzene	1.222	1.450	1.441	1.416	1.378	1.305	1.369	6.50
64)		m,p-Xylene	0.969	1.160	1.159	1.130	1.110	1.061	1.098	6.68
65)		o-Xylene	1.015	1.227	1.221	1.189	1.158	1.104	1.152	7.06
66)		Styrene	0.684	0.767	0.794	0.804	0.812	0.788	0.775	6.09
67)	P	Bromoform	0.153	0.212	0.223	0.222	0.226	0.224	0.210	13.40
68)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
69)		Isopropylbenzene	1.910	2.175	2.168	2.152	2.134	2.033	2.095	4.99
70)	S	4-Bromofluorobenzen	0.886	0.870	0.876	0.884	0.884	0.904	0.884	1.30
71)		Bromobenzene	0.542	0.713	0.691	0.663	0.644	0.614	0.644	9.46
72)		Cyclohexanone		0.020	0.017	0.017	0.017	0.017	0.018	9.50
73)	P	1,1,2,2-Tetrachloro	0.430	0.533	0.538	0.518	0.510	0.509	0.506	7.77
74)		trans-1,4-Dichloro-	0.110	0.071	0.088	0.106	0.117	0.123	0.103	19.02
75)		1,2,3-Trichloroprop	0.145	0.202	0.197	0.189	0.188	0.185	0.184	11.13
76)		n-Propylbenzene	2.252	2.649	2.634	2.601	2.534	2.416	2.514	6.13
77)		2-Chlorotoluene	1.668	1.933	1.956	1.905	1.856	1.787	1.851	5.83
78)		4-Chlorotoluene	1.621	1.834	1.828	1.803	1.779	1.726	1.765	4.57
79)		1,3,5-Trimethylbenz	1.636	1.987	1.994	1.953	1.899	1.818	1.881	7.26
80)		sec-Butylbenzene	2.021	2.227	2.180	2.175	2.098	1.989	2.115	4.50
81)		1,3-Dichlorobenzene	1.193	1.338	1.292	1.264	1.226	1.165	1.246	5.15
82)		4-Isopropyltoluene	1.746	2.017	1.976	1.954	1.888	1.797	1.896	5.62
83)		1,4-Dichlorobenzene	1.180	1.359	1.340	1.303	1.259	1.200	1.274	5.77

Average % RSD = 8.18319

(#) = Out of Range

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 2002
Response via : Initial Calibration

Calibration Files
1 =C0010455.D 2 =C0010456.D 3 =C0010457.D
4 =C0010458.D 5 =C0010459.D 6 =C0010460.D

	Compound	1	2	3	4	5	6	Avg	%RS
84)	tert-Butylbenzene	1.155	1.248	1.242	1.240	1.195	1.149	1.205	3.72
85)	n-Butylbenzene	1.537	1.745	1.709	1.690	1.642	1.545	1.645	5.29
86)	1,2-Dichlorobenzene	1.123	1.315	1.302	1.273	1.217	1.168	1.233	6.24
87)	1,2,4-Trimethylbenz	1.801	2.121	2.124	2.086	2.045	1.969	2.024	6.10
88)	1,2-Dibromo-3-Chlor	0.099	0.125	0.127	0.126	0.120	0.119	0.119	8.99
89)	1,2,4-Trichlorobenz	0.693	0.835	0.809	0.806	0.765	0.739	0.774	6.79
90)	Hexachlorobutadiene	0.365	0.303	0.284	0.281	0.268	0.249	0.292	13.72
91)	Naphthalene	1.501	1.890	1.996	1.969	1.910	1.868	1.855	9.71
92)	1,2,3-Trichlorobenz	0.627	0.726	0.734	0.712	0.679	0.663	0.690	5.98

Average % RSD = 8.10342

(#) = Out of Range

CONTINUING CALIBRATION

VOC.09

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071502\C0010546.D Vial: 1
Acq On : 15 Jul 2002 9:06 am Operator: JuanG
Sample : cc470-40ppb Inst : MSVOA5
Misc : ms1592,vc475,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 2002
Response via : Multiple Level Calibration

JLb. 7-16-02

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)
1	I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2		Dichlorodifluoromethane	0.327	0.303	7.3	88	0.00
3	P	Chloromethane	0.283	0.267	5.7	98	0.00
4	C	Vinyl Chloride	0.261	0.254	2.7	96	0.00
5		Bromomethane	0.160	0.147	8.1	97	0.00
6		Chloroethane	0.126	0.128	-1.6	99	0.00
7		Trichlorofluoromethane	0.462	0.432	6.5	89	0.00
8		Acrolein	0.022	0.027	-22.7#	124	0.00
9	C	1,1-Dichloroethene	0.367	0.354	3.5	94	0.00
10		Freon 113	0.199	0.199	0.0	96	0.00
11		Acetone	0.069	0.066	4.3	99	0.00
12		Iodomethane	0.336	0.343	-2.1	101	0.00
13		Methyl Acetate	0.151	0.150	0.7	100	0.00
14		Carbon Disulfide	0.665	0.670	-0.8	104	0.00
15		Hexane	0.211	0.217	-2.8	106	0.00
16		Methylene Chloride	0.346	0.324	6.4	98	0.00
17		Tert-Butyl Alcohol	0.020	0.020	0.0	98	0.00
18		trans-1,2-Dichloroethene	0.321	0.322	-0.3	102	0.00
19		Acrylonitrile	0.078	0.081	-3.8	107	0.00
20		Methyl Tert Butyl Ether	0.611	0.611	0.0	101	0.00
21	P	1,1-Dichloroethane	0.379	0.390	-2.9	102	0.00
22		Vinyl acetate	0.713	0.731	-2.5	104	0.00
23		Di-isopropyl ether	0.724	0.741	-2.3	103	0.00
24		ETBE	0.677	0.702	-3.7	103	0.00
25		2,2-Dichloropropane	0.247	0.256	-3.6	100	0.00
26		cis-1,2-Dichloroethene	0.232	0.240	-3.4	106	0.00
27		2-Butanone	0.097	0.096	1.0	100	0.00
28		Bromochloromethane	0.121	0.127	-5.0	104	0.00
29	C	Chloroform	0.448	0.440	1.8	99	0.00
30		Tetrahydrofuran	0.063	0.058	7.9	101	0.00
31		1,1,1-Trichloroethane	0.428	0.412	3.7	94	0.00
32		Cyclohexane	0.339	0.344	-1.5	103	0.00
33	S	Dibromofluoromethane	0.293	0.282	3.8	99	0.00
34		1,1-Dichloropropene	0.297	0.302	-1.7	102	0.00
35		Carbon Tetrachloride	0.393	0.376	4.3	94	0.00
36	S	1,2-Dichloroethane-d4	0.382	0.330	13.6	90	0.00
37		Benzene	0.821	0.851	-3.7	106	0.00
38		TAME	0.588	0.623	-6.0	105	0.00
39		1,2-Dichloroethane	0.432	0.374	13.4	92	0.00

010

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071502\C0010546.D Vial: 1
Acq On : 15 Jul 2002 9:06 am Operator: JuanG
Sample : cc470-40ppb Inst : MSVOA5
Misc : ms1592,vc475,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 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)
40		Trichloroethene	0.249	0.251	-0.8	102	0.00
41		Methylcyclohexane	0.285	0.295	-3.5	108	0.00
42	C	1,2-Dichloropropane	0.207	0.220	-6.3	107	0.00
43		Dibromomethane	0.156	0.155	0.6	102	0.00
44		1,4-Dioxane	0.002	0.002	0.0	100	0.00
45		Bromodichloromethane	0.352	0.352	0.0	99	0.00
46		2-Nitropropane	0.066	0.061	7.6	94	0.00
47		2-Chloroethyl vinyl ether	0.104	0.106	-1.9	98	0.00
48		4-Methyl-2-pentanone	0.224	0.218	2.7	97	0.00
49		cis-1,3-Dichloropropene	0.368	0.394	-7.1	106	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
51	S	Toluene-d8	1.154	1.154	0.0	104	0.00
52	C	Toluene	1.123	1.156	-2.9	105	0.00
53		trans-1,3-Dichloropropene	0.427	0.445	-4.2	102	0.00
54		1,1,2-Trichloroethane	0.196	0.204	-4.1	106	0.00
55		Tetrachloroethene	0.315	0.318	-1.0	104	0.00
56		2-hexanone	0.183	0.180	1.6	96	0.00
57		1,3-Dichloropropane	0.413	0.415	-0.5	102	0.00
58		Dibromochloromethane	0.324	0.332	-2.5	101	0.00
59		1,2-Dibromoethane	0.278	0.284	-2.2	101	0.00
60		1-Chlorohexane	0.345	0.364	-5.5	105	0.00
61	P	Chlorobenzene	0.823	0.844	-2.6	103	0.00
62		1,1,1,2-Tetrachloroethane	0.326	0.332	-1.8	100	0.00
63	C	Ethylbenzene	1.369	1.382	-0.9	101	0.00
64		m,p-Xylene	1.098	1.089	0.8	100	0.00
65		o-Xylene	1.152	1.144	0.7	99	0.00
66		Styrene	0.775	0.794	-2.5	102	0.00
67	P	Bromoform	0.210	0.223	-6.2	104	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
69		Isopropylbenzene	2.095	2.166	-3.4	101	0.00
70	S	4-Bromofluorobenzene	0.884	0.876	0.9	100	0.00
71		Bromobenzene	0.644	0.672	-4.3	102	0.00
72		Cyclohexanone	0.018	0.016	11.1	97	0.00
73	P	1,1,2,2-Tetrachloroethane	0.506	0.529	-4.5	103	0.00
74		trans-1,4-Dichloro-2-butene	0.103	0.117	-13.6	111	0.00
75		1,2,3-Trichloropropane	0.184	0.179	2.7	95	0.00
76		n-Propylbenzene	2.514	2.630	-4.6	102	0.00

0105

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071502\C0010546.D Vial: 1
Acq On : 15 Jul 2002 9:06 am Operator: JuanG
Sample : cc470-40ppb Inst : MSVOA5
Misc : ms1592,vc475,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\8260QUANT.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Jul 09 16:10:37 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)
77	2-Chlorotoluene	1.851	1.884	-1.8	99	0.00
78	4-Chlorotoluene	1.765	1.791	-1.5	100	0.00
79	1,3,5-Trimethylbenzene	1.881	1.942	-3.2	100	0.00
80	sec-Butylbenzene	2.115	2.192	-3.6	101	0.00
81	1,3-Dichlorobenzene	1.246	1.260	-1.1	100	0.00
82	4-Isopropyltoluene	1.896	1.921	-1.3	99	0.00
83	1,4-Dichlorobenzene	1.274	1.298	-1.9	100	0.00
84	tert-Butylbenzene	1.205	1.184	1.7	96	0.00
85	n-Butylbenzene	1.645	1.708	-3.8	102	0.00
86	1,2-Dichlorobenzene	1.233	1.268	-2.8	100	0.00
87	1,2,4-Trimethylbenzene	2.024	2.078	-2.7	100	0.00
88	1,2-Dibromo-3-Chloropropane	0.119	0.112	5.9	90	0.00
89	1,2,4-Trichlorobenzene	0.774	0.790	-2.1	99	0.00
90	Hexachlorobutadiene	0.292	0.277	5.1	99	0.00
91	Naphthalene	1.855	1.927	-3.9	98	0.00
92	1,2,3-Trichlorobenzene	0.690	0.696	-0.9	98	0.00

Average % D = 3.64352

0106

(#) = Out of Range SPCC's out = 0 CCC's out = 0

INTERNAL STANDARD

VOC.10

Volatile Internal Standard Area Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	VC475-CC470	**Injection Date:**	07/15/02
Lab File ID:	C0010546.D	**Injection Time:**	09:06
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1059167	10.73	900571	14.01	553222	16.55
Upper Limit [a]	2118334	11.23	1801142	14.51	1106444	17.05
Lower Limit [b]	529584	10.23	450286	13.51	276611	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VC475-MB	1049086	10.74	891635	14.01	553275	16.55
ZZZZZZ	1009786	10.74	858084	14.01	531611	16.55
ZZZZZZ	984165	10.74	835871	14.01	524299	16.55
ZZZZZZ	956585	10.73	817946	14.01	502177	16.55
F13829-2 [c]	916364	10.74	790086	14.01	494074	16.55
ZZZZZZ	857768	10.73	730235	14.01	456702	16.55
F13824-1	813728	10.74	702800	14.01	442910	16.55
ZZZZZZ	805631	10.74	695182	14.01	423428	16.55
ZZZZZZ	790361	10.73	687075	14.01	416760	16.55
F13829-1	803132	10.74	689399	14.01	423304	16.55
ZZZZZZ	814386	10.74	699998	14.01	423417	16.56
VC475-BS	811600	10.74	693692	14.01	409017	16.55
F13824-1MS	800879	10.74	688689	14.01	417578	16.56
F13824-1MSD	792761	10.74	676303	14.01	403974	16.55
ZZZZZZ	796539	10.74	675935	14.01	404045	16.55
ZZZZZZ	797558	10.74	679024	14.01	401253	16.55
ZZZZZZ	872694	10.74	737289	14.01	431933	16.55

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(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.
(c) Confirmed by reanalysis.

SEQUENCE LOGS AND BENCH SHEETS

VOC.11

0113

~~0114~~ 7-26-02

Sequence Name: C:\MSDCHEM\2\SEQUENCE\071502.S
Comment:
Operator: JuanG
Data Path: C:\MSDCHEM\2\DATA\071502\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	BFB	100	C0010545	BFB	BFB tune
2	DailyCal	1	C0010546	8260	cc470-40ppb
3	Spike	2	C0010547	8260	BS
4	Blank	3	C0010548	8260	MB
5	Sample	4	C0010549	8260	F13821-1,5ml
6	Sample	5	C0010550	8260	F13821-17,5ml
7	Sample	6	C0010551	8260	F13821-26,5ml
8	Sample	7	C0010552	8260	F13829-2,5ml
9	Sample	8	C0010553	8260	F13829-1,0.25ml
10	Sample	9	C0010554	8260	F13809-4,5ml
11	Sample	10	C0010555	8260	F13824-1,5ml
12	Sample	11	C0010556	8260	F13824-2,5ml
13	Sample	12	C0010557	8260	F13824-3,5ml
14	Sample	13	C0010558	8260	F13829-1,5ml
15	Sample	14	C0010559	8260	F13824-5,5ml
16	Spike	15	C0010560	8260	BS,5ml
17	Spike	16	C0010561	8260	F13824-1MS,5ml
18	Duplicate	16	C0010562	8260	F13824-1MSD,5ml
19	Sample	17	C0010563	8260	F13824-4,5ml
20	Sample	18	C0010564	8260	F13846-1,5ml
21	Sample	19	C0010565	8260	F13846-2,5ml
22	Sample	20	C0010566	8260	F13846-3,5ml
23	Sample	21	C0010567	8260	F13803-1,5ml
24	Sample	22	C0010568	8260	F13834-1,5ml
25	Sample	23	C0010569	8260	F13834-2,5ml
26	Sample	24	C0010570	8260	F13847-1,5ml

GC/MS VOA ANALYSIS LOG

DATE:	7/15/02
COLUMN TYPE:	DB 624
DETECTOR:	MS
INSTRUMENT:	C
ANALYST:	[illegible]

METHODS:	8260 / 624
METHOD FILE:	8260 Quant
CALIB. DATE:	7-9-02
RUN BATCH:	VC475

STANDARDS	
BFB	V2981
ICAL/CCV	V2996, V2977, V302
ISTD/SURR	V2998
ICV/QC	V3006, V3002, V3015

0115

	DATA FILE	SAMPLE ID	SAMPLE AMT.	MATRIX	PH	ALS #	DIL.	METHOD	VIAL #	COMMENTS
	C0010545	BFB	2ml	—	—	—	—	BFB	—	✓ autotuned
2	46	CC470-40	5ml	W	7	1	1	8260	—	✓
	47	BS				2			—	✓
	48	MB				3			—	ND
	49	F13821-1			1	4			1	ND MS1611
	50	-17				5			1	✓
	51	-26				6			1	ND
	52	F13829-2				7			1	✓
3	53	-1	0.250			8	20		1	ND RR1x M
4	54	F13809-4	5ml			9	1		2	✓ MS1604
	55	F13824-1				10			1	ND
	56	-2				11			1	ND
	57	-3				12			1	ND
	58	F13829-1				12			1	ND
	59	F13824-5				14			1	✓
	60	BS			7	15			—	✓
	61	F13824-1 MS				16			2	✓
5	62	-1MSD				16			2	✓
	63	F13824-4				17			1	ND
	64	F13846-1				18			1	ND
	65	-2				19			1	✓ RR100+
	66	-3				20			1	✓ Surrogate ↓ matrix RR1x *
	67	F13803-1				21			2	CR / RR1x matrix carry over
	68	F13834-1				22			1	✓ RR1x
	69	-2				23			1	~~RR1x~~ ND JRC 7/16/02
	70	F13847-1				24			1	✓ RR1x
	71	MB			7	25			—	ND
	72	MB			7	26			—	ND

Notes: * Had to run 2 additional MB to eliminate carry over.

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

MSVOA_log.xls NF 8/01

Sequence Name: C:\MSDchem\2\sequence\070902.s
Comment:
Operator: JuanG
Data Path: C:\MSDCHEM\2\DATA\070902\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	BFB	100	C0010454	BFB	BFB tune
2	Calibration	1	C0010455	8260	IC470-1ppb
3	Calibration	2	C0010456	8260	IC470-5ppb
4	Calibration	3	C0010457	8260	IC470-20ppb
5	Calibration	4	C0010458	8260	ICC470-40ppb
6	Calibration	5	C0010459	8260	IC470-70ppb
7	Calibration	6	C0010460	8260	IC470-100ppb
8	DailyCal	7	C0010461	8260	ICV470-40ppb
9	Spike	8	C0010462	8260	BS
10	Blank	9	C0010463	8260	MB
11	Spike	10	C0010464	8260	BS,0.5ml
12	Blank	11	C0010465	8260	OP5446-LB,0.5ml
13	Sample	12	C0010466	8260	F13734-7,0.5ml
14	Sample	13	C0010467	8260	F13734-8,0.5ml
15	Sample	14	C0010468	8260	F13734-14,0.5ml
16	Spike	15	C0010469	8260	F13734-8MS,0.5ml
17	Duplicate	15	C0010470	8260	F13734-8MSD,0.5ml

0116

GC/MS VOA ANALYSIS LOG

DATE:	7/9/02
COLUMN TYPE:	DB 624
DETECTOR:	MS
INSTRUMENT:	C
ANALYST:	[illegible]

METHODS:	8260/624
METHOD FILE:	8260 Quant
CALIB. DATE:	7-9-02
RUN BATCH:	VC 470

STANDARDS	
BFB	V2981
ICAL/CCV	V2996, V2977, ~~V2994~~ V2998
ISTD/SURR	~~V2982~~ V2993
ICV/QC	V2994, V2958, ~~V3002~~

JRb 7-10-02

DATA FILE	SAMPLE ID	SAMPLE AMT.	MATRIX	PH	ALS #	DIL.	METHOD	VIAL #	COMMENTS
C0010454	BFB	2ul	—	-		—	BFB	—	✓ autoinj
55	IC470-1	5ml	W	7	1	1	8260		✓
56	-5				2				✓
57	-20				3				✓
58	-40				4				✓
59	-70				5				✓
60	-100				6				✓
61	ICV-40				7				✓
62	BS				8				✓
63	MB				9				ND
64	BS	0.5	TCLP	1	10	10			✓
65	OP5446-13				11	10			✓
66	F13734-7				12				✓
67	-8				13				✓
68	-14				14				✓
69	-8MS				15				✓
70	-8MSD				15				✓

JRb 7/10/02

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

MSVOA_log.xls NF 8/01

SECTION 8

SURROGATE RECOVERIES SUMMARY

SVOC.02

Semivolatile Surrogate Recovery Summary

Job Number: F13829
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
F13829-1	W010924.D	59.0	40.0	98.0	94.0	95.0	124.0
OP5479-BS	W010919.D	60.0	46.0	95.0	98.0	98.0	109.0
OP5479-MB	W010920.D	67.0	45.0	99.0	101.0	99.0	96.0
OP5479-MS	W010933.D	78.0	62.0	95.0	95.0	99.0	104.0
OP5479-MSD	W010934.D	81.0	64.0	98.0	97.0	103.0	107.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

METHOD BLANK SUMMARY

SVOC.03

Method Blank Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MB	W010920.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

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 phenol	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 ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	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)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	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: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MB	W010920.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

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'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	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)phthalate	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	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	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-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	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-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	67%	20-125%
4165-62-2	Phenol-d5	45%	10-125%

Method Blank Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MB	W010920.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	99%	35-140%
4165-60-0	Nitrobenzene-d5	101%	46-125%
321-60-8	2-Fluorobiphenyl	99%	46-125%
1718-51-0	Terphenyl-d14	96%	49-126%

BLANK SPIKE SUMMARY

SVOC.04

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-BS	W010919.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	41.9	84	60-125
59-50-7	4-Chloro-3-methyl phenol	50	42.4	85	70-125
120-83-2	2,4-Dichlorophenol	50	41.8	84	68-125
105-67-9	2,4-Dimethylphenol	50	34.8	70	42-125
51-28-5	2,4-Dinitrophenol	50	24.5	49	10-125
534-52-1	4,6-Dinitro-o-cresol	50	32.5	65	46-125
95-48-7	2-Methylphenol	50	39.6	79	51-125
	3&4-Methylphenol	100	73.7	74	46-125
88-75-5	2-Nitrophenol	50	42.1	84	64-125
100-02-7	4-Nitrophenol	50	18.4	37	17-125
87-86-5	Pentachlorophenol	50	34.3	69	60-125
108-95-2	Phenol	50	23.5	47	16-125
95-95-4	2,4,5-Trichlorophenol	50	43.7	87	74-125
88-06-2	2,4,6-Trichlorophenol	50	39.7	79	70-125
83-32-9	Acenaphthene	50	49.5	99	70-125
208-96-8	Acenaphthylene	50	49.5	99	75-125
120-12-7	Anthracene	50	49.2	98	75-125
56-55-3	Benzo(a)anthracene	50	49.3	99	75-125
50-32-8	Benzo(a)pyrene	50	53.2	106	75-125
205-99-2	Benzo(b)fluoranthene	50	53.2	106	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.3	109	57-135
207-08-9	Benzo(k)fluoranthene	50	55.1	110	75-125
101-55-3	4-Bromophenyl phenyl ether	50	49.8	100	74-125
85-68-7	Butyl benzyl phthalate	50	48.8	98	38-134
100-51-6	Benzyl Alcohol	50	42.5	85	30-125
91-58-7	2-Chloronaphthalene	50	46.6	93	59-125
106-47-8	4-Chloroaniline	50	43.8	88	31-125
86-74-8	Carbazole	50	48.7	97	75-125
218-01-9	Chrysene	50	48.0	96	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	45.8	92	64-125
111-44-4	bis(2-Chloroethyl)ether	50	46.3	93	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	43.4	87	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	51.0	102	75-125
95-50-1	1,2-Dichlorobenzene	50	30.3	61	35-125
541-73-1	1,3-Dichlorobenzene	50	28.8	58	30-125
106-46-7	1,4-Dichlorobenzene	50	28.6	57	32-125

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-BS	W010919.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	51.9	104	73-125
606-20-2	2,6-Dinitrotoluene	50	55.5	111	75-125
91-94-1	3,3'-Dichlorobenzidine	50	43.1	86	55-125
53-70-3	Dibenzo(a,h)anthracene	50	50.7	101	64-130
132-64-9	Dibenzofuran	50	49.3	99	73-125
84-74-2	Di-n-butyl phthalate	50	48.7	97	47-140
117-84-0	Di-n-octyl phthalate	50	54.3	109	52-125
84-66-2	Diethyl phthalate	50	52.6	105	59-125
131-11-3	Dimethyl phthalate	50	52.0	104	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	50.1	100	71-125
206-44-0	Fluoranthene	50	47.0	94	75-125
86-73-7	Fluorene	50	52.2	104	75-125
118-74-1	Hexachlorobenzene	50	50.0	100	74-125
87-68-3	Hexachlorobutadiene	50	28.6	57	22-125
77-47-4	Hexachlorocyclopentadiene	50	25.1	50	10-125
67-72-1	Hexachloroethane	50	27.8	56	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	51.9	104	53-130
78-59-1	Isophorone	50	47.2	94	63-125
91-57-6	2-Methylnaphthalene	50	37.6	75	51-125
88-74-4	2-Nitroaniline	50	51.5	103	75-125
99-09-2	3-Nitroaniline	50	49.6	99	62-125
100-01-6	4-Nitroaniline	50	50.3	101	67-125
91-20-3	Naphthalene	50	38.5	77	53-125
98-95-3	Nitrobenzene	50	47.0	94	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	45.7	91	61-125
86-30-6	N-Nitrosodiphenylamine	50	54.8	110	75-125
85-01-8	Phenanthrene	50	47.9	96	75-125
129-00-0	Pyrene	50	50.8	102	67-125
120-82-1	1,2,4-Trichlorobenzene	50	34.1	68	39-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	60%	20-125%
4165-62-2	Phenol-d5	46%	10-125%
118-79-6	2,4,6-Tribromophenol	95%	35-140%

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-BS	W010919.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	98%	46-125%
1718-51-0	Terphenyl-d14	109%	49-126%

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

SVOC.05

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MS	W010933.D	1	07/17/02	ME	07/15/02	OP5479	SW595
OP5479-MSD	W010934.D	1	07/17/02	ME	07/15/02	OP5479	SW595
F13841-2	W010932.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Compound	F13841-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		107	90.3	85	95.2	89	5	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		107	92.5	87	95.1	89	3	72-125/20
120-83-2	2,4-Dichlorophenol	ND		107	91.7	86	96.1	90	5	65-125/20
105-67-9	2,4-Dimethylphenol	ND		107	80.3	75	82.5	77	3	37-125/20
51-28-5	2,4-Dinitrophenol	ND		107	66.4	62	52.4	49	24	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		107	74.4	70	78.7	74	6	54-125/20
95-48-7	2-Methylphenol	ND		107	87.5	82	91.7	86	5	57-125/20
	3&4-Methylphenol	ND		213	169	79	175	82	3	55-125/20
88-75-5	2-Nitrophenol	ND		107	93.9	88	96.5	91	3	67-125/20
100-02-7	4-Nitrophenol	ND		107	74.7	70	70.7	66	6	41-125/23
87-86-5	Pentachlorophenol	ND		107	89.0	84	94.4	89	6	67-126/20
108-95-2	Phenol	ND		107	65.9	62	68.1	64	3	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		107	102	96	108	101	6	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		107	98.8	93	102	96	3	70-125/20
83-32-9	Acenaphthene	ND		107	105	99	108	101	3	74-125/20
208-96-8	Acenaphthylene	ND		107	105	99	111	104	6	75-125/20
120-12-7	Anthracene	ND		107	101	95	105	99	4	75-125/20
56-55-3	Benzo(a)anthracene	ND		107	105	99	107	100	2	75-125/20
50-32-8	Benzo(a)pyrene	ND		107	114	107	114	107	0	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		107	112	105	114	107	2	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		107	115	108	112	105	3	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		107	113	106	115	108	2	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		107	96.8	91	105	99	8	73-125/20
85-68-7	Butyl benzyl phthalate	ND		107	99.5	93	107	100	7	66-125/20
100-51-6	Benzyl Alcohol	ND		107	94.1	88	98.4	92	4	53-125/20
91-58-7	2-Chloronaphthalene	ND		107	104	98	107	100	3	64-125/20
106-47-8	4-Chloroaniline	ND		107	91.9	86	95.2	89	4	44-125/20
86-74-8	Carbazole	ND		107	99.2	93	104	98	5	75-125/20
218-01-9	Chrysene	ND		107	101	95	103	97	2	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		107	97.0	91	101	95	4	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		107	99.7	94	103	97	3	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		107	92.5	87	98.3	92	6	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		107	109	102	112	105	3	75-125/20
95-50-1	1,2-Dichlorobenzene	ND		107	82.3	77	85.4	80	4	39-125/20
541-73-1	1,3-Dichlorobenzene	ND		107	77.6	73	80.6	76	4	36-125/20
106-46-7	1,4-Dichlorobenzene	ND		107	80.7	76	83.3	78	3	39-125/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MS	W010933.D	1	07/17/02	ME	07/15/02	OP5479	SW595
OP5479-MSD	W010934.D	1	07/17/02	ME	07/15/02	OP5479	SW595
F13841-2	W010932.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Compound	F13841-2 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		107	105	99	110	103	5	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		107	111	104	120	113	8	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		107	80.1	75	85.4	80	6	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		107	109	102	106	100	3	64-127/20
132-64-9	Dibenzofuran	ND		107	103	97	109	102	6	73-125/20
84-74-2	Di-n-butyl phthalate	ND		107	104	98	110	103	6	71-125/20
117-84-0	Di-n-octyl phthalate	ND		107	109	102	118	111	8	66-125/30
84-66-2	Diethyl phthalate	ND		107	113	106	115	108	2	64-125/20
131-11-3	Dimethyl phthalate	ND		107	110	103	114	107	4	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		107	107	100	112	105	5	74-125/20
206-44-0	Fluoranthene	ND		107	97.7	92	106	100	8	75-125/20
86-73-7	Fluorene	ND		107	110	103	114	107	4	75-125/20
118-74-1	Hexachlorobenzene	ND		107	98.2	92	105	99	7	75-125/20
87-68-3	Hexachlorobutadiene	ND		107	77.6	73	78.3	74	1	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		107	58.7	55	69.4	65	17	18-125/27
67-72-1	Hexachloroethane	ND		107	76.6	72	80.5	76	5	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		107	109	102	106	100	3	54-125/20
78-59-1	Isophorone	ND		107	102	96	104	98	2	62-125/20
91-57-6	2-Methylnaphthalene	ND		107	91.9	86	94.5	89	3	58-125/20
88-74-4	2-Nitroaniline	ND		107	106	100	111	104	5	67-125/20
99-09-2	3-Nitroaniline	ND		107	102	96	106	100	4	53-125/20
100-01-6	4-Nitroaniline	ND		107	107	100	108	101	1	63-125/20
91-20-3	Naphthalene	ND		107	96.2	90	100	94	4	55-125/20
98-95-3	Nitrobenzene	ND		107	98.6	93	103	97	4	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		107	93.7	88	99.1	93	6	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		107	110	103	117	110	6	75-125/20
85-01-8	Phenanthrene	ND		107	99.6	94	105	99	5	75-125/20
129-00-0	Pyrene	ND		107	102	96	105	99	3	67-125/20
120-82-1	1,2,4-Trichlorobenzene	ND		107	89.5	84	91.3	86	2	45-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F13841-2	Limits
367-12-4	2-Fluorophenol	78%	81%	47%	20-125%
4165-62-2	Phenol-d5	62%	64%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	95%	98%	90%	35-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5479-MS	W010933.D	1	07/17/02	ME	07/15/02	OP5479	SW595
OP5479-MSD	W010934.D	1	07/17/02	ME	07/15/02	OP5479	SW595
F13841-2	W010932.D	1	07/17/02	ME	07/15/02	OP5479	SW595

The QC reported here applies to the following samples: **Method:** SW846 8270C

F13829-1

CAS No.	Surrogate Recoveries	MS	MSD	F13841-2	Limits
4165-60-0	Nitrobenzene-d5	95%	97%	76%	46-125%
321-60-8	2-Fluorobiphenyl	99%	103%	77%	46-125%
1718-51-0	Terphenyl-d14	104%	107%	100%	49-126%

INSTRUMENT PERFORMANCE CHECK (DFTPP)

SVOC.07

Instrument Performance Check (DFTPP)

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample:	SW595-DFTPP	**Injection Date:**	07/17/02
Lab File ID:	W010911.D	**Injection Time:**	12:17
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	134615	50.1		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	99572	37.1		Pass
70	Less than 2.0% of mass 69	588	0.22	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	128837	48.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	268544	100.0		Pass
199	5.0 - 9.0% of mass 198	18283	6.8		Pass
275	10.0 - 30.0% of mass 198	57413	21.4		Pass
365	1.0 - 100.0% of mass 198	5338	2.0		Pass
441	Present, but less than mass 443	30618	11.4	(78.6) [b]	Pass
442	40.0 - 100.0% of mass 198	201157	74.9		Pass
443	17.0 - 23.0% of mass 442	38954	14.5	(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
SW595-ICC595	W010912.D	07/17/02	12:36	00:19	Initial cal 75
SW595-IC595	W010913.D	07/17/02	13:07	00:50	Initial cal 5
SW595-IC595	W010914.D	07/17/02	13:37	01:20	Initial cal 25
SW595-IC595	W010915.D	07/17/02	14:08	01:51	Initial cal 50
SW595-IC595	W010916.D	07/17/02	14:39	02:22	Initial cal 100
SW595-IC595	W010917.D	07/17/02	15:09	02:52	Initial cal 125
OP5479-BS	W010919.D	07/17/02	16:12	03:55	Blank Spike
OP5479-MB	W010920.D	07/17/02	16:43	04:26	Method Blank
ZZZZZZ	W010921.D	07/17/02	17:14	04:57	(unrelated sample)
ZZZZZZ	W010922.D	07/17/02	17:45	05:28	(unrelated sample)
ZZZZZZ	W010923.D	07/17/02	18:15	05:58	(unrelated sample)
F13829-1	W010924.D	07/17/02	18:46	06:29	CC3007
ZZZZZZ	W010925.D	07/17/02	19:17	07:00	(unrelated sample)
ZZZZZZ	W010926.D	07/17/02	19:47	07:30	(unrelated sample)
ZZZZZZ	W010927.D	07/17/02	20:17	08:00	(unrelated sample)
ZZZZZZ	W010928.D	07/17/02	20:48	08:31	(unrelated sample)
ZZZZZZ	W010929.D	07/17/02	21:18	09:01	(unrelated sample)
ZZZZZZ	W010930.D	07/17/02	21:48	09:31	(unrelated sample)
ZZZZZZ	W010931.D	07/17/02	22:19	10:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample:	SW595-DFTPP	**Injection Date:**	07/17/02
Lab File ID:	W010911.D	**Injection Time:**	12:17
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F13841-2	W010932.D	07/17/02	22:50	10:33	(used for QC only; not part of job F13829)
OP5479-MS	W010933.D	07/17/02	23:20	11:03	Matrix Spike
OP5479-MSD	W010934.D	07/17/02	23:50	11:33	Matrix Spike Duplicate

INITIAL CALIBRATION

SVOC.08

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Wed Jul 17 15:35:09 2002
Response via : Initial Calibration

Calibration Files

5	=W010913.D	25	=W010914.D	50	=W010915.D
75	=W010912.D	100	=W010916.D	125	=W010917.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		1,4-Dioxane	0.539	0.513	0.507	0.487	0.517	0.498	0.510	3.48
3)		N-nitrosodimethylam	0.548	0.673	0.699	0.680	0.721	0.706	0.671	9.34
4)		Pyridine	1.059	1.151	1.216	1.216	1.251	1.210	1.184	5.82
5)		Benzaldehyde	0.991	0.855	0.565	0.428	0.365	0.350	0.593	45.67
6)		Aniline	2.040	1.960	1.889	1.717	1.717	1.590	1.819	9.42
7)	S	2-Fluorophenol	1.284	1.194	1.182	1.109	1.144	1.069	1.164	6.43
8)		bis(2-Chloroethyl)e	1.224	1.215	1.217	1.179	1.177	1.146	1.193	2.56
9)	S	Phenol-d5	1.610	1.466	1.415	1.333	1.346	1.273	1.407	8.52
10)	C	Phenol	1.897	1.748	1.713	1.545	1.547	1.435	1.647	10.24
11)		2-Chlorophenol	1.419	1.410	1.395	1.358	1.405	1.333	1.387	2.43
12)		1,3-Dichlorobenzene	1.642	1.538	1.506	1.470	1.480	1.420	1.509	5.03
13)	C	1,4-Dichlorobenzene	1.638	1.552	1.518	1.471	1.470	1.417	1.511	5.13
14)		1,2-Dichlorobenzene	1.513	1.467	1.448	1.391	1.400	1.342	1.427	4.30
15)		Benzyl alcohol	0.844	0.844	0.827	0.815	0.814	0.787	0.822	2.61
16)		bis(2-chloroisoprop	2.986	2.838	2.781	2.702	2.636	2.491	2.739	6.24
17)		2-Methylphenol	1.262	1.218	1.176	1.145	1.135	1.103	1.173	4.97
18)		Acetophenone	1.794	1.651	1.606	1.501	1.488	1.444	1.581	8.22
19)		Hexachloroethane	0.560	0.537	0.534	0.515	0.515	0.493	0.526	4.34
20)	P	N-Nitroso-di-n-prop	0.865	0.807	0.791	0.749	0.737	0.718	0.778	7.01
21)		3&4-Methylphenol	1.337	1.214	1.177	1.103	1.098	1.062	1.165	8.67
22)	I	Naphthalene-d8	ISTD							
23)	S	Nitrobenzene-d5	0.345	0.355	0.347	0.336	0.332	0.334	0.342	2.61
24)		Nitrobenzene	0.342	0.351	0.341	0.325	0.328	0.321	0.335	3.55
25)		Isophorone	0.611	0.618	0.619	0.593	0.591	0.593	0.604	2.22
26)	C	2-Nitrophenol	0.213	0.222	0.219	0.214	0.216	0.216	0.217	1.59
27)		2,4-Dimethylphenol	0.358	0.364	0.353	0.336	0.335	0.330	0.346	4.11
28)		bis(2-Chloroethoxy)	0.399	0.407	0.394	0.374	0.376	0.367	0.386	4.19
29)		Benzoic Acid		0.215	0.229	0.240	0.247	0.228	0.232	5.37
30)	C	2,4-Dichlorophenol	0.318	0.322	0.315	0.303	0.298	0.295	0.309	3.68
31)		1,2,4-Trichlorobenz	0.323	0.320	0.311	0.297	0.294	0.282	0.304	5.24
32)		Naphthalene	1.047	1.034	0.993	0.950	0.937	0.931	0.982	5.14
33)		4-Chloroaniline	0.437	0.427	0.403	0.375	0.371	0.356	0.395	8.25
34)		2,6-Dichlorophenol	0.320	0.310	0.297	0.284	0.277	0.272	0.293	6.45
35)	C	Hexachlorobutadiene	0.175	0.174	0.166	0.162	0.159	0.153	0.165	5.23
36)		Caprolactam	0.091	0.097	0.105	0.092	0.092	0.098	0.096	5.58
37)	C	4-Chloro-3-methylph	0.284	0.283	0.284	0.264	0.263	0.268	0.275	3.77
38)		2-Methylnaphthalene	0.686	0.667	0.663	0.628	0.610	0.615	0.645	4.84
39)		1-Methylnaphthalene	0.659	0.657	0.659	0.617	0.603	0.596	0.632	4.72
40)		1,2,4,5-Tetrachloro	0.280	0.265	0.274	0.252	0.246	0.246	0.261	5.53
41)	I	Acenaphthene-d10	ISTD							

(#) = Out of Range Average % RSD 6.38141

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Wed Jul 17 15:35:09 2002
Response via : Initial Calibration

Calibration Files
5 =W010913.D 25 =W010914.D 50 =W010915.D
75 =W010912.D 100 =W010916.D 125 =W010917.D

		Compound	5	25	50	75	100	125	Avg	%RSD
42)	P	Hexachlorocyclopent	0.184	0.284	0.276	0.308	0.309	0.304	0.277	17.25
43)	C	2,4,6-Trichlorophen	0.406	0.411	0.398	0.408	0.392	0.408	0.404	1.79
44)		2,4,5-Trichlorophen	0.426	0.439	0.435	0.405	0.412	0.393	0.418	4.34
45)	S	2-Fluorobiphenyl	1.470	1.440	1.395	1.342	1.296	1.292	1.373	5.45
46)		1,1'-Biphenyl	1.766	1.724	1.684	1.645	1.609	1.588	1.669	4.10
47)		2-Chloronaphthalene	1.285	1.270	1.230	1.193	1.159	1.168	1.218	4.34
48)		2-Nitroaniline	0.350	0.376	0.374	0.366	0.360	0.374	0.367	2.80
49)		Acenaphthylene	1.991	1.966	1.924	1.849	1.825	1.817	1.895	3.97
50)		Dimethylphthalate	1.272	1.287	1.295	1.172	1.209	1.234	1.245	3.88
51)		2,6-Dinitrotoluene	0.252	0.292	0.294	0.275	0.288	0.284	0.281	5.56
52)	C	Acenaphthene	1.205	1.206	1.173	1.123	1.110	1.100	1.153	4.16
53)		3-Nitroaniline	0.319	0.346	0.361	0.323	0.336	0.334	0.336	4.59
54)	P	2,4-Dinitrophenol		0.129	0.146	0.160	0.162	0.182	0.156	12.88
55)		Dibenzofuran	1.608	1.606	1.563	1.462	1.424	1.432	1.516	5.68
56)		2,4-Dinitrotoluene	0.319	0.368	0.377	0.336	0.349	0.352	0.350	6.01
57)	P	4-Nitrophenol	0.135	0.151	0.162	0.146	0.151	0.158	0.151	6.31
58)		2,3,4,6-Tetrachloro	0.244	0.276	0.280	0.272	0.264	0.276	0.269	4.94
59)		Fluorene	1.247	1.274	1.273	1.175	1.164	1.170	1.217	4.35
60)		4-Chlorophenyl-phen	0.567	0.571	0.566	0.536	0.522	0.530	0.549	3.93
61)		Diethylphthalate	1.178	1.224	1.259	1.125	1.137	1.136	1.176	4.64
62)		4-Nitroaniline	0.304	0.328	0.341	0.305	0.309	0.326	0.319	4.66
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.150	0.153	0.156	0.163	0.164	0.157	3.76
65)	C	n-Nitrosodiphenylam	0.644	0.642	0.616	0.595	0.619	0.598	0.619	3.41
66)		1,2-Diphenylhydrazi	0.891	0.914	0.847	0.828	0.860	0.799	0.856	4.89
67)	S	2,4,6-Tribromopheno	0.090	0.095	0.089	0.084	0.087	0.086	0.088	4.21
68)		4-Bromophenyl-pheny	0.212	0.210	0.201	0.199	0.199	0.193	0.202	3.72
69)		Hexachlorobenzene	0.209	0.205	0.195	0.189	0.190	0.186	0.196	4.79
70)		Atrazine	0.209	0.222	0.215	0.197	0.201	0.198	0.207	4.99
71)	C	Pentachlorophenol		0.122	0.122	0.126	0.126	0.127	0.125	2.01
72)		Phenanthrene	1.218	1.235	1.175	1.139	1.131	1.098	1.166	4.56
73)		Anthracene	1.265	1.275	1.225	1.149	1.174	1.143	1.205	4.81
74)		Carbazole	1.126	1.154	1.124	1.024	1.033	1.046	1.085	5.22
75)		Di-n-butylphthalate	1.257	1.403	1.349	1.249	1.269	1.285	1.302	4.68
76)	C	Fluoranthene	1.052	1.099	1.063	0.947	0.990	0.969	1.020	5.87
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.777	0.622	0.552	0.541	0.516	0.602	17.60
79)		Pyrene	1.837	1.922	1.696	1.966	1.858	1.899	1.863	5.03
80)	S	Terphenyl-d14	1.056	1.126	0.976	1.128	1.065	1.097	1.075	5.28
81)		Butylbenzylphthalat	0.754	0.845	0.776	0.875	0.854	0.855	0.827	5.95
82)		3,3'-Dichlorobenzid	0.434	0.430	0.411	0.402	0.407	0.411	0.416	3.11

Average % RSD = 5.87023

(#) = Out of Range

Response Factor Report MSBNA01

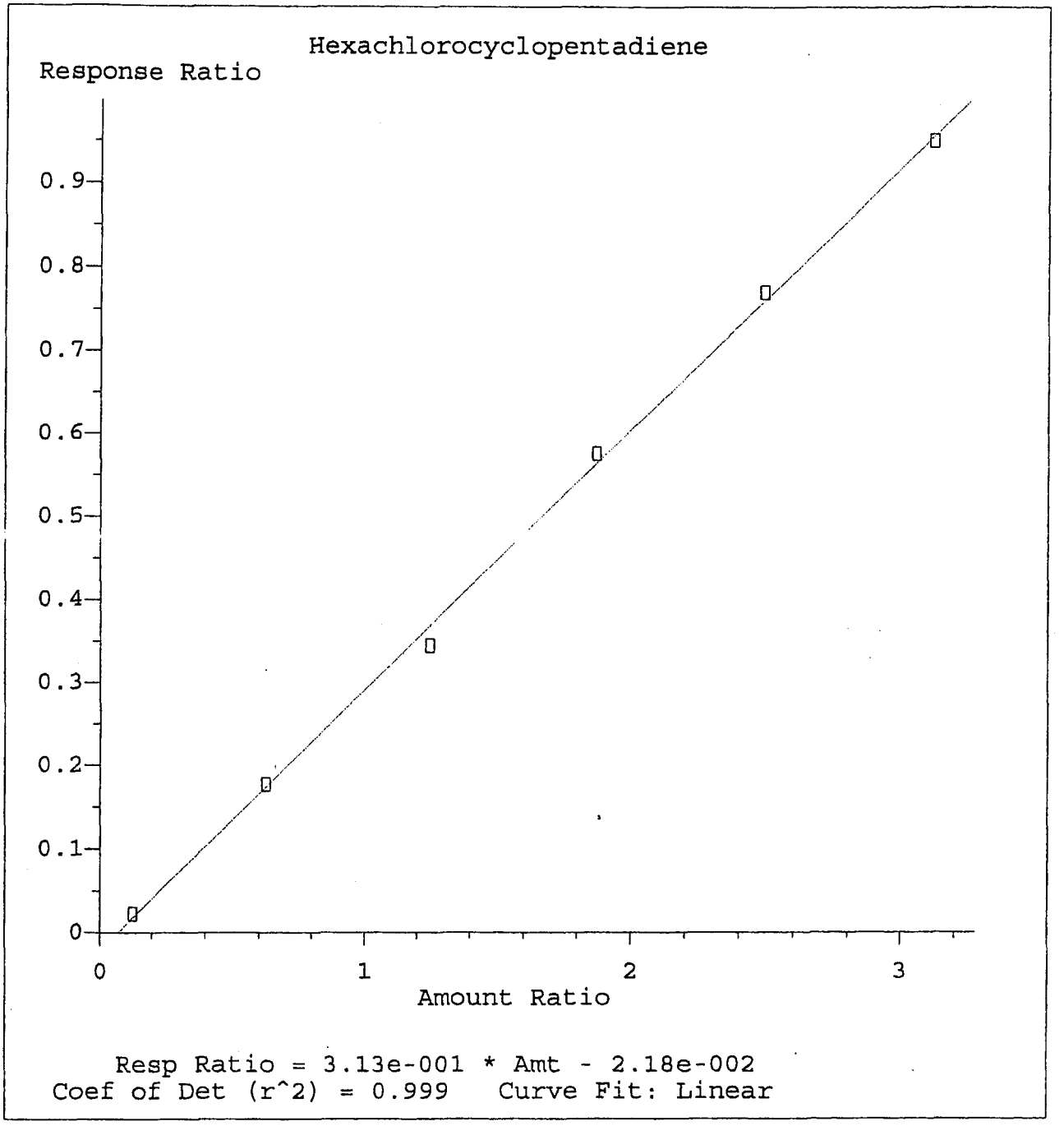
Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Wed Jul 17 15:35:09 2002
Response via : Initial Calibration

Calibration Files
5 =W010913.D 25 =W010914.D 50 =W010915.D
75 =W010912.D 100 =W010916.D 125 =W010917.D

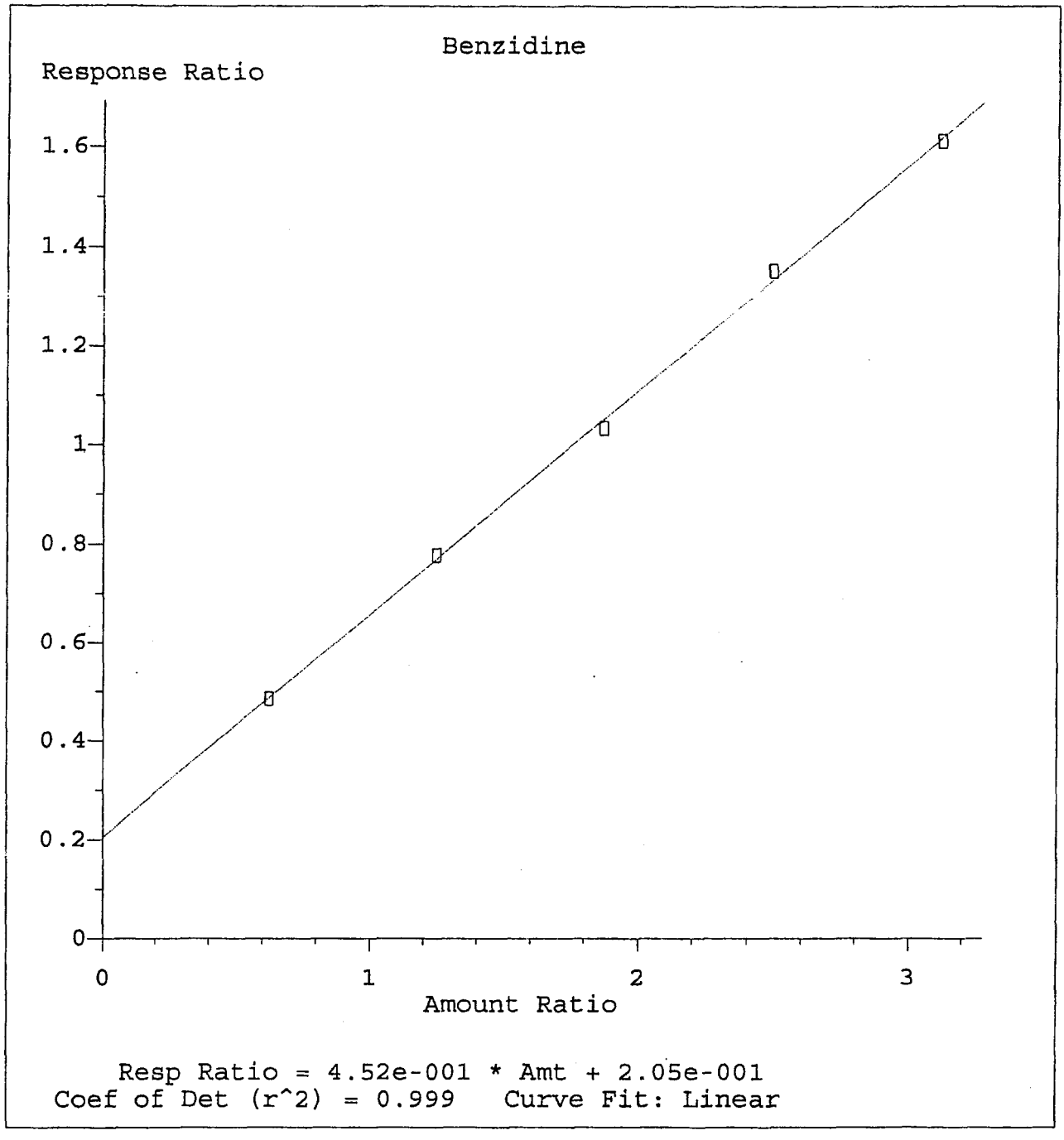
		Compound	5	25	50	75	100	125	Avg	%RSD
83)		Benzo[a]anthracene	1.275	1.294	1.253	1.264	1.290	1.277	1.275	1.22
84)		Chrysene	1.224	1.294	1.239	1.246	1.259	1.268	1.255	1.95
85)		bis(2-Ethylhexyl)ph	0.963	1.077	1.003	1.126	1.096	1.088	1.059	5.89
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	2.369	2.761	2.252	2.745	2.643	2.490	2.543	8.17
88)		Benzo[b]fluoranthen	1.499	1.553	1.447	1.519	1.483	1.459	1.493	2.62
89)		Benzo[k]fluoranthen	1.567	1.669	1.484	1.569	1.507	1.427	1.537	5.45
90)	C	Benzo[a]pyrene	1.347	1.438	1.347	1.368	1.338	1.347	1.364	2.75
91)		Indeno[1,2,3-cd]pyr	0.963	1.017	1.111	1.093	1.103	1.162	1.075	6.69
92)		Dibenz[a,h]anthrace	0.917	1.039	1.125	1.164	1.159	1.208	1.102	9.71
93)		Benzo[g,h,i]perylen	1.041	1.100	1.226	1.198	1.212	1.238	1.169	6.81

Average % RSD = 5.78479

(#) = Out of Range



Method Name: C:\HPCHEM\1\METHODS\8270C.M
Calibration Table Last Updated: Wed Jul 17 15:35:09 2002



Method Name: C:\HPCHEM\1\METHODS\8270C.M
Calibration Table Last Updated: Wed Jul 17 15:35:09 2002

CONTINUING CALIBRATION

SVOC.09

NOT APPLICABLE TO THIS REPORT

INTERNAL STANDARD

SVOC.10

Semivolatile Internal Standard Area Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	SW595-ICC595	**Injection Date:**	07/17/02
Lab File ID:	W010912.D	**Injection Time:**	12:36
Instrument ID:	GCMSW	**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	220800	5.15	770208	6.38	353932	8.73	450326	11.26	217562	16.20	128467	18.70
Upper Limit [a]	441600	5.65	1540416	6.88	707864	9.23	900652	11.76	435124	16.70	256934	19.20
Lower Limit [b]	110400	4.65	385104	5.88	176966	8.23	225163	10.76	108781	15.70	64234	18.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP5479-BS	227435	5.15	782395	6.37	335726	8.73	439037	11.26	210204	16.19	111494	18.70
OP5479-MB	145625	5.15	495055	6.37	225625	8.73	332995	11.25	218663	16.19	135418	18.70
ZZZZZZ	198514	5.15	683001	6.37	300855	8.72	418457	11.26	246821	16.19	140279	18.70
ZZZZZZ	142727	5.15	494877	6.37	221469	8.72	319080	11.25	206750	16.19	129575	18.70
ZZZZZZ	192729	5.15	662864	6.37	301029	8.72	423903	11.25	264250	16.19	150904	18.70
F13829-1	270654	5.15	933495	6.37	411141	8.73	575659	11.26	254063	16.19	125671	18.70
ZZZZZZ	216608	5.15	728468	6.37	316939	8.72	444573	11.26	250250	16.19	133952	18.70
ZZZZZZ	226733	5.15	789346	6.37	353424	8.72	496343	11.26	291942	16.19	151537	18.70
ZZZZZZ	126179	5.15	441793	6.37	203224	8.72	307631	11.25	208908	16.19	136538	18.70
ZZZZZZ	146670	5.15	505926	6.37	227149	8.72	334654	11.25	225238	16.19	142000	18.70
ZZZZZZ	200710	5.15	669879	6.37	293781	8.72	428597	11.26	250990	16.19	131028	18.70
ZZZZZZ	157274	5.15	532460	6.37	247134	8.73	356132	11.26	210099	16.19	124016	18.70
ZZZZZZ	220545	5.15	735248	6.37	329074	8.72	455845	11.26	260822	16.19	150586	18.70
F13841-2	229946	5.15	775264	6.37	341452	8.73	488595	11.26	278804	16.19	143771	18.70
OP5479-MS	221743	5.15	752863	6.37	334830	8.73	470494	11.26	232951	16.19	133131	18.70
OP5479-MSD	246633	5.15	843299	6.38	364423	8.73	491287	11.26	256755	16.20	143237	18.70

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.

SEQUENCE LOGS AND BENCH SHEETS

SVOC.11

Sequence Name: C:\HPCHEM\1\SEQUENCE\071702.S
Comment: SW595/596
Operator: marke
Data Path: C:\HPCHEM\1\DATA\071702\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	W010911	DFTPP	dftpp
2	Sample	2	W010912	8270C	icc595-75
3	Sample	3	W010913	8270C	ic595-5
4	Sample	4	W010914	8270C	ic595-25
5	Sample	5	W010915	8270C	ic595-50
6	Sample	6	W010916	8270C	ic595-100
7	Sample	7	W010917	8270C	ic595-125
8	Sample	8	W010918	8270C	icv
9	Sample	9	W010919	8270C	op5479-bs
10	Sample	10	W010920	8270C	op5479-mb
11	Sample	11	W010921	8270C	f13821-1
12	Sample	12	W010922	8270C	f13821-17
13	Sample	13	W010923	8270C	f13821-26
14	Sample	14	W010924	8270C	f13829-1
15	Sample	15	W010925	8270C	f13794-1
16	Sample	16	W010926	8270C	f13794-2
17	Sample	17	W010927	8270C	f13794-3
18	Sample	18	W010928	8270C	f13828-1
19	Sample	19	W010929	8270C	f13828-2
20	Sample	20	W010930	8270C	f13794-4
21	Sample	21	W010931	8270C	f13794-5
22	Sample	22	W010932	8270C	f13841-2
23	Sample	23	W010933	8270C	op5479-ms
24	Sample	24	W010934	8270C	op5479-msd
25	Sample	25	W010935	DFTPP	dftpp
26	Sample	26	W010936	8270C	cc595-75
27	Sample	27	W010937	8270C	f13794-6
28	Sample	28	W010938	8270C	f13794-7
29	Sample	29	W010939	8270C	f13794-8
30	Sample	30	W010940	8270C	f13841-1
31	Sample	31	W010941	8270C	f13841-3
32	Sample	32	W010942	8270C	f13841-4
33	Sample	33	W010943	8270C	f13841-5
34	Sample	34	W010944	8270C	f13842-1
35	Sample	35	W010945	8270C	op5496-bs
36	Sample	36	W010946	8270C	op5496-mb
37	Sample	37	W010947	8270C	f13808-1
38	Sample	38	W010948	8270C	op5496-ms
39	Sample	39	W010949	8270C	op5496-msd
40	Sample	40	W010950	8270C	f13841-3,2

GC/MS ANALYSIS LOG

DATE: 7/17/02	METHODS: 8270/625	ANALYST: [illegible]
COLUMN TYPE: DB-5MS	METHOD FILE: 8270C	RUN BATCH: SW595/596
INSTRUMENT: MS-1	CALIB. DATE: 7/17/02	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS Cal S1648
W01911	1	DFTPP	8270/625						✓	S1647 passed
12	2	ICS594-75	↓						✓	S1644
13	3	-5							✓	S1641
14	4	-25							✓	S1642
15	5	-50							✓	S1643
16	6	-100							✓	S1645 curve
17	7	-125							✓	S1646 passed
18	8	ICV	↓					x2	✓	E1094 passed
19	9	OP5479-BS	8270	W	OP5479	1000ml	1ml	x1	✓	✓
20	10	-MD				↓			✓	ND
21	11	F13821-1				1020ml			✓	✓
22	12	-17				↓			✓	✓
23	13	-26							✓	✓
24	14	F13829-1				1010ml			✓	✓
25	15	F13794-1				940ml			✓	ND
26	16	-2				↓			✓	✓
27	17	-3							✓	✓
28	18	F13828-1				970ml			✓	ND
29	19	-2				880ml			✓	✓
30	20	F13794-4				940ml			✓	✓
31	21	-5				↓			✓	✓
32	22	F13841-2				920ml			✓	ND
33	23	OP5479-MS				970ml				✓
34	24	-MSD	↓	↓	↓	↓	↓	↓	✓	✓
35	25	DFTPP	8270/625						✓	S1647 passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [illegible]

Ms1_log.xls NF rev. 11/01

0208

GC/MS ANALYSIS LOG

DATE: 7/17/02	METHODS: 8270/625	ANALYST: NF
COLUMN TYPE: DB-5MS	METHOD FILE: 8270	RUN BATCH: SW655/596
INSTRUMENT: MS-1	CALIB. DATE: 7/17/02	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
W01 0436	26	CLSS-25	8270/625						/	S1644 ~~[illegible]~~
37	27	F13794-6	8270	W	OP5479	920ml	1ml	x1	/	ND
38	28	-7				↓			/	✓
39	29	-8				920ml			/	✓
40	30	F13841-1				900ml			/	✓
41	31	-3				940ml			/	✓ MRX2
42	32	-4				960ml			/	ND
43	33	-5				940ml			/	ND
44	34	F13842-1	↓		↓	900ml			/	ND
45	35	OP5496-BS	625		OP5496	1000ml			/	✓
46	36	-MB				↓			/	ND
47	37	F13908-1				1000ml			/	✓
48	38	OP5496-MS				500ml			/	✓
49	39	-MSD	↓	↓	↓	↓		↓	/	✓
50	40	F13841-3	8270	↓	OP5479	940ml	↓	x2	/	✓

7/18/02

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [signature]

Ms1_log.xls NF rev. 11/01

0209

SAMPLE PREP REPORT

SVOC.12

LIQUID SAMPLE PREP REPORT

Date: 07/15/02 Method*: AB 8270 Batch#: OP 5479

Batch Started On: 07/15/02 Prior Number Of Samples in Batch: 0 Analyst: AA/ES

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 5479 MB	X	1000	6	<2>11	0.5ml		1.0ml	
OP 5479 BS	X	1000				0.5ml		
F13821-1	6	1000						
-17	6	1000						
-26	6	1000						
F13829-1	7	1010						
F13794-1	6	940						
-2	~~5~~ 6	940						
-3	6	940						
F13828-1	5	970						
F13828-2	4	880						
F13794-4	6	940						
-5	6	940						
-6	6	920						
-7	8	920						
-8	7	920						
F13841-1	7	900						
-2	15	920						MS/MSD
-3	8	940						
-4	7	960						
-5	8	940						
F13842-1	9	900						
OP 5479 MS	13	470	6	<2>11	0.5ml	0.5ml		F13841-2
OP 5479 MSD								
OP DUP								

Surrogate ID: ~~E1091~~ 7/15/02 AA E1091A Conc: 200/100PPM Exp. Date: 1/9/03 Bath Temp.: 72°C

Spike ID: E1094 FS Conc: 100PPM Exp. Date: 1/11/03 Bath Temp2.: 30°C

CH2CL2 Lot # CE649 Hexane Lot # — Na2SO4 Lot# 42032212

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# —

Reagent # HER #264 Reagent # ER # Reagent # —

Comments: H2SO4

Relinquished By: [signature] Date: 7-16-02

Accepted By: [signature] Date: 7/16/02

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8330 prepped by 3535A.

0211

Extwater.xls NF rev. 9/01

SECTION 9

GC SURROGATE RETENTION TIME

SGC.03

GC Surrogate Retention Time Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	GGG194-CC157	**Injection Date:**	07/16/02
Lab File ID:	GG003757.D	**Injection Time:**	09:58
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	15.35	15.35

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
F13829-1	GG003760.D	07/16/02	11:36	15.37	
OP5484-MB	GG003761.D	07/16/02	12:08	15.38	
OP5484-BS	GG003762.D	07/16/02	12:40	15.39	
GGG194-ECC157	GG003763.D	07/16/02	13:12	15.38	15.38

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5484-MB	GG003761.D	1	07/16/02	MRE	07/15/02	OP5484	GGG194

The QC reported here applies to the following samples: **Method:** SW846 8330A

F13829-1

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-Dinitrotoluene	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	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	99%	58-131%

BLANK SPIKE SUMMARY

SGC.05

Blank Spike Summary

Job Number: F13829
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5484-BS	GG003762.D	1	07/16/02	MRE	07/15/02	OP5484	GGG194

The QC reported here applies to the following samples: **Method:** SW846 8330A

F13829-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.0	80	80-120
121-82-4	RDX	2.5	2.1	84	80-120
99-65-0	1,3-Dinitrobenzene	2.5	2.1	84	80-120
606-20-2	2,6-Dinitrotoluene	2.5	2.4	96	80-120
121-14-2	2,4-Dinitrotoluene	2.5	2.1	84	80-120
35572-78-2	2-amino-4,6-Dinitrotoluene	2.5	2.2	88	80-120
19406-51-0	4-amino-2,6-Dinitrotoluene	2.5	2.2	88	80-120
98-95-3	Nitrobenzene	2.5	2.0	80	80-120
88-72-2	o-Nitrotoluene	2.5	2.2	88	74-120
99-08-1	m-Nitrotoluene	2.5	2.3	92	76-120
99-99-0	p-Nitrotoluene	2.5	2.3	92	76-120
479-45-8	Tetryl	2.5	2.3	92	74-120
99-35-4	1,3,5-Trinitrobenzene	2.5	2.1	84	80-120
118-96-7	2,4,6-Trinitrotoluene	2.5	2.2	88	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	93%	58-131%

INITIAL CALIBRATION

SGC.08

Response Factor Report G1315B

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Apr 30 07:49:22 2002
Response via : Initial Calibration

MAG 4/30/02

Calibration Files
20 =GG003082.D 100 =GG003083.D 200 =GG003084.D
300 =GG003085.D 400 =GG003086.D 500 =GG003087.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	3.568	3.390	3.226	3.296	3.177	3.219	3.313	E3	4.40
2)		RDX	5.103	4.423	4.249	4.277	4.069	4.063	4.364	E3	8.86
3)		1,3,5-Trinitrobenze	1.074	0.894	0.866	0.876	0.853	0.868	0.905	E4	9.25
4)		1,3-Dinitrobenzene	1.490	1.239	1.188	1.203	1.162	1.178	1.243	E4	9.95
5)		Tetryl	7.053	6.450	6.341	6.455	6.194	6.248	6.457	E3	4.81
6)		Nitrobenzene	9.207	7.989	7.808	7.891	7.652	7.725	8.046	E3	7.23
7)	S	3,4-Dinitrotoluene	5.984	5.293	5.296	5.421	5.122	5.166	5.380	E3	5.83
8)		2,4,6-Trinitrotolue	9.687	8.443	8.287	8.517	8.147	8.221	8.550	E3	6.71
9)		4-Amino-2,6-Dinitro	5.580	5.454	5.379	5.598	5.207	5.280	5.417	E3	2.92
10)		2-Amino-4,6-Dinitro	7.537	7.335	7.065	7.390	6.985	7.022	7.222	E3	3.16
11)		2,6-Dinitrotoluene	5.681	5.712	5.450	5.742	5.354	5.412	5.558	E3	3.09
12)		2,4-Dinitrotoluene	1.248	1.118	1.065	1.125	1.050	1.063	1.112	E4	6.64
13)		o-Nitrotoluene	4.736	4.344	4.203	4.464	4.466	4.495	4.451	E3	3.97
14)		p-Nitrotoluene	4.049	3.551	3.448	3.693	3.694	3.711	3.691	E3	5.52
15)		m-Nitrotoluene	5.160	5.050	4.757	4.927	4.835	4.851	4.930	E3	3.04

Signal #2 Calibration Files
20 =GG003082.D 100 =GG003083.D 200 =GG003084.D
300 =GG003085.D 400 =GG003086.D 500 =GG003087.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	1.143	0.992	0.966	0.975	0.943	0.952	0.995	E4	7.48
2)		RDX	9.045	7.521	7.504	7.313	7.115	6.915	7.569	E3	10.04
3)		1,3,5-Trinitrobenze	2.138	1.799	1.755	1.768	1.721	1.743	1.821	E4	8.65
4)		1,3-Dinitrobenzene	1.703	1.474	1.410	1.437	1.389	1.411	1.471	E4	7.98
5)		Tetryl	1.287	1.141	1.101	1.131	1.089	1.098	1.141	E4	6.49
6)		Nitrobenzene	4.230	3.831	3.661	3.844	3.679	3.706	3.825	E3	5.57
7)	S	3,4-Dinitrotoluene	7.785	7.243	6.998	7.356	6.931	7.007	7.220	E3	4.45
8)		2,4,6-Trinitrotolue	1.327	1.244	1.200	1.235	1.181	1.195	1.230	E4	4.33
9)		4-Amino-2,6-Dinitro	1.508	1.479	1.421	1.473	1.404	1.418	1.450	E4	2.88
10)		2-Amino-4,6-Dinitro	1.269	1.219	1.173	1.230	1.162	1.173	1.204	E4	3.47
11)		2,6-Dinitrotoluene	7.481	7.508	7.150	7.466	7.030	7.103	7.290	E3	2.99
12)		2,4-Dinitrotoluene	1.112	1.007	0.960	1.033	0.950	0.962	1.004	E4	6.16
13)		o-Nitrotoluene	4.926	4.716	4.807	4.825	4.796	4.843	4.819	E3	1.42
14)		p-Nitrotoluene	7.832	7.377	7.569	7.592	7.488	7.558	7.569	E3	1.99
15)		m-Nitrotoluene	8.006	7.458	7.283	7.370	7.237	7.280	7.439	E3	3.88

Average % RSD = 5.4

(#) = Out of Range

8330_EX.M Tue Apr 30 07:49:39 2002

9/1/2

CONTINUING CALIBRATION

SGC.09

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0716EXP\GG003757.D\DAD1B.CH Vial: 2
Signal #2 : G:\HPCHEM\1\DATA\0716EXP\GG003757.D\DAD1A.CH
Acq On : 16-Jul-2002, 09:58:06 Operator: MIKEE
Sample : CC157-200 Inst : G1315B
Misc : op5484,ggg194,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Jul 05 12:12:45 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	200.000	201.938	-1.0	104	0.00
2		RDX	200.000	189.382	5.3	97	0.00
3		1,3,5-Trinitrobenzene	200.000	190.549	4.7	100	0.00
4		1,3-Dinitrobenzene	200.000	187.594	6.2	98	0.00
5		Tetryl	200.000	207.345	-3.7	106	0.00
6		Nitrobenzene	200.000	182.119	8.9	94	0.00
7	S	3,4-Dinitrotoluene	200.000	192.293	3.9	98	0.00
8		2,4,6-Trinitrotoluene	200.000	187.705	6.1	97	0.00
9		4-Amino-2,6-Dinitrotoluene	200.000	203.504	-1.8	102	-0.01
10		2-Amino-4,6-Dinitrotoluene	200.000	205.984	-3.0	105	-0.02
11		2,6-Dinitrotoluene	200.000	209.341	-4.7	107	0.00
12		2,4-Dinitrotoluene	200.000	187.725	6.1	98	0.00
13		o-Nitrotoluene	200.000	197.496	1.3	105	0.00
14		p-Nitrotoluene	200.000	198.112	0.9	106	0.00
15		m-Nitrotoluene	200.000	203.066	-1.5	105	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	200.000	192.951	3.5	99	0.00
2		RDX	200.000	204.598	-2.3	103	0.00
3		1,3,5-Trinitrobenzene	200.000	190.425	4.8	99	0.00
4		1,3-Dinitrobenzene	200.000	189.615	5.2	99	0.00
5		Tetryl	200.000	209.403	-4.7	109	0.00
6		Nitrobenzene	200.000	178.392	10.8	93	0.00
7	S	3,4-Dinitrotoluene	200.000	195.585	2.2	101	0.00
8		2,4,6-Trinitrotoluene	200.000	191.100	4.5	98	0.00
9		4-Amino-2,6-Dinitrotoluen	200.000	207.640	-3.8	106	-0.01
10		2-Amino-4,6-Dinitrotoluen	200.000	206.853	-3.4	106	-0.02
11		2,6-Dinitrotoluene	200.000	210.134	-5.1	107	0.00
12		2,4-Dinitrotoluene	200.000	186.656	6.7	98	0.00
13		o-Nitrotoluene	200.000	203.181	-1.6	102	0.01
14		p-Nitrotoluene	200.000	207.092	-3.5	104	0.00
15		m-Nitrotoluene	200.000	203.565	-1.8	104	0.00

Average % D = 4.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GG003084.D 8330_EX.M Tue Jul 16 14:49:02 2002

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0716EXP\GG003763.D\DAD1B.CH Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0716EXP\GG003763.D\DAD1A.CH
Acq On : 16-Jul-2002, 13:12:31 Operator: MIKEE
Sample : ECC157-300 Inst : G1315B
Misc : op5484,ggg194,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Jul 16 14:53:28 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	293.214	2.3	98	0.00
2		RDX	300.000	274.921	8.4	93	0.00
3		1,3,5-Trinitrobenzene	300.000	276.618	7.8	95	0.00
4		1,3-Dinitrobenzene	300.000	274.040	8.7	94	0.01
5		Tetryl	300.000	303.910	-1.3	101	0.02
6		Nitrobenzene	300.000	266.301	11.2	91	0.02
7	S	3,4-Dinitrotoluene	300.000	284.294	5.2	94	0.03
8		2,4,6-Trinitrotoluene	300.000	275.078	8.3	92	0.03
9		4-Amino-2,6-Dinitrotoluene	300.000	301.387	-0.5	97	0.02
10		2-Amino-4,6-Dinitrotoluene	300.000	300.130	-0.0	98	0.02
11		2,6-Dinitrotoluene	300.000	303.932	-1.3	98	0.00
12		2,4-Dinitrotoluene	300.000	287.516	4.2	95	0.00
13		o-Nitrotoluene	300.000	303.970	-1.3	101	0.00
14		p-Nitrotoluene	300.000	311.038	-3.7	104	0.00
15		m-Nitrotoluene	300.000	300.456	-0.2	100	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	279.327	6.9	95	0.00
2		RDX	300.000	285.093	5.0	98	0.00
3		1,3,5-Trinitrobenzene	300.000	276.748	7.8	95	0.00
4		1,3-Dinitrobenzene	300.000	275.871	8.0	94	0.01
5		Tetryl	300.000	304.808	-1.6	102	0.02
6		Nitrobenzene	300.000	258.203	13.9	86	0.02
7	S	3,4-Dinitrotoluene	300.000	284.639	5.1	93	0.03
8		2,4,6-Trinitrotoluene	300.000	277.708	7.4	92	0.03
9		4-Amino-2,6-Dinitrotoluen	300.000	300.985	-0.3	99	0.02
10		2-Amino-4,6-Dinitrotoluen	300.000	300.003	-0.0	98	0.02
11		2,6-Dinitrotoluene	300.000	303.680	-1.2	99	0.00
12		2,4-Dinitrotoluene	300.000	272.037	9.3	88	0.00
13		o-Nitrotoluene	300.000	296.430	1.2	99	0.00
14		p-Nitrotoluene	300.000	303.143	-1.0	101	0.00
15		m-Nitrotoluene	300.000	296.628	1.1	100	0.00

Average % D = 4.5

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG003085.D 8330_EX.M Tue Jul 16 15:18:06 2002

SEQUENCE LOGS AND BENCH SHEETS

SGC.10

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8330_EX	GG003756	01:01		SOLVENT
No	2	Vial 2	8330_EX	GG003757	02:01		CC157-200
No	3	Vial 3	8330_EX	GG003758	03:01		MB TEST
No	4	Vial 4	8330_EX	GG003759	04:01		BS TEST
No	5	Vial 5	8330_EX	GG003760	05:01		F13829-1
No	6	Vial 6	8330_EX	GG003761	06:01		OP5484-MB
No	7	Vial 7	8330_EX	GG003762	07:01		OP5484-BS
No	8	Vial 8	8330_EX	GG003763	08:01		ECC157-300

HPLC ANALYSIS LOG

DATE: 7/16/02	METHODS: 8330	ANALYST: M. Eg
COLUMN TYPE: ODS	METHOD FILE: 8330.EX	RUN BATCH: GHG 154
INSTRUMENT: HPLC3	CALIB. DATE: ~~5/20/02~~ 4/29/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
G0003756	1	Solvent	8330						✓	Rinse
57	2	CC157-200		S1600	—	—	—	2:5	✓	passed
58	3	MB TEST		W		1000	10.0	1X	✓	✓
59	4	BS TEST				1000			✓	✓
60	5	F13829-1			Op5484	~~1000~~ 1030			✓	ND
61	6	Op5484-MB				1000			✓	✓
62	7	L-BS				1000			✓	✓
63	8	CC157-300		S1600	—	—	—	3:5	—	passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Eg

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Partial Sequence: C:\HPCHEM\1\SEQUENCE\0429EXP.S GG157

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8330_EX	GG003080	01:01		CC157-500
No	2	Vial 2	8330_EX	GG003081	02:01		SOLVENT
No	3	Vial 3	8330_EX	GG003082	03:01		IC157-20
No	4	Vial 4	8330_EX	GG003083	04:01		IC157-100
No	5	Vial 5	8330_EX	GG003084	05:01		IC157-200
No	6	Vial 6	8330_EX	GG003085	06:01		ICC157-300
No	7	Vial 7	8330_EX	GG003086	07:01		IC157-400
No	8	Vial 8	8330_EX	GG003087	08:01		IC157-500
No	9	Vial 9	8330_EX	GG003088	09:01		ICV 8330
No	10	Vial 10	8330_EX	GG003089	10:01		OP5050-BS
No	11	Vial 11	8330_EX	GG003090	11:01		OP5050-MB
No	12	Vial 12	8330_EX	GG003091	12:01		F12834-6,RE
No	13	Vial 13	8330_EX	GG003092	13:01		OP5050-MS
No	14	Vial 14	8330_EX	GG003093	14:01		OP5050-MSD
No	15	Vial 15	8330_EX	GG003094	15:01		F13011-1
No	16	Vial 6	8330_EX	GG003095	16:01		CC157-300
No	17	Vial 16	8330_EX	GG003096	17:01		OP5012-BS
No	18	Vial 17	8330_EX	GG003097	18:01		OP5012-MB
No	19	Vial 18	8330_EX	GG003098	19:01		F12930-1
No	20	Vial 19	8330_EX	GG003099	20:01		F12930-2
No	21	Vial 20	8330_EX	GG003100	21:01		F12930-3
No	22	Vial 21	8330_EX	GG003101	22:01		F12930-4
No	23	Vial 22	8330_EX	GG003102	23:01		F12930-5
No	24	Vial 23	8330_EX	GG003103	24:01		F12930-6
No	25	Vial 24	8330_EX	GG003104	25:01		F12930-7
No	26	Vial 25	8330_EX	GG003105	26:01		F12930-8
No	27	Vial 6	8330_EX	GG003106	27:01		CC157-300
No	28	Vial 26	8330_EX	GG003107	28:01		F12930-9
No	29	Vial 27	8330_EX	GG003108	29:01		F12930-10
No	30	Vial 28	8330_EX	GG003109	30:01		F12930-11
No	31	Vial 29	8330_EX	GG003110	31:01		F12930-12
No	32	Vial 30	8330_EX	GG003111	32:01		OP5012-MS
No	33	Vial 31	8330_EX	GG003112	33:01		OP5012-MSD
No	34	Vial 32	8330_EX	GG003113	34:01		F12930-13
No	35	Vial 33	8330_EX	GG003114	35:01		F12930-14
No	36	Vial 6	8330_EX	GG003115	36:01		CC157-300
No	37	Vial 34	8330_EX	GG003116	37:01		ICV S1381
No	38	Vial 35	8330_EX	GG003117	38:01		F13011-1,4
No	39	Vial 6	8330_EX	GG003118	39:01		ECC157-300

HPLC ANALYSIS LOG

DATE: 4/29/02	METHODS: 8330	ANALYST: M. Egan
COLUMN TYPE: ODS	METHOD FILE: 8330-EO	RUN BATCH: GGB157
INSTRUMENT: HPLC 3	CALIB. DATE: 4/29/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG003080	1	CC157-500	8330	S1528				1X	✓	Rt. only
81	2	Solvent							✓	Rinse
82	3	IC157-20		S1528				25X	✓	✓
83	4	IC157-100						5X	✓	✓
84	5	IC157-200						2.5	✓	✓
85	6	IC157-300						3.5	✓	✓
86	7	IC157-400						4.5	✓	✓
87	8	IC157-500						1X	✓	✓
88	9	ICV 8330		~~S1481~~ ~~S1361~~ S1361				50X	X	Reprep
89	10	OP5050-BS		S	OP5050	2.00	20	1X	✓	TETRY Low (MS/MSD passes)
90	11	-MB				2.00			✓	✓ ND
91	12	F12834-6,RE				1.99			✓	Sub Low (Confirms)
92	13	OP5050-MS				1.98			✓	✓
93	14	" -MSD				2.02			✓	✓
94	15	F13011-1				2.04			X	RR@4X, HMX
95	16	CC157-300		S1528				3.5	✓	passed
96	16	OP5012-BS		W	OP5012	1000	10.0	1X	✓	passed
97	17	" -MB				1000			✓	ND
98	18	F12930-1				640			✓	ND
99	19	-2				760			✓	ND
3100	20	-3				840			✓	ND
01	21	-4				820			✓	ND
02	22	-5				840			✓	ND
03	23	-6				860			✓	ND
04	24	-7				850			✓	ND

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Egan

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HPLC ANALYSIS LOG

DATE: 4/29/02	METHODS: 8330	ANALYST: M. Eger
COLUMN TYPE: ODS	METHOD FILE: 8330-EX	RUN BATCH: GGG157
INSTRUMENT: HPLC 3	CALIB. DATE: 4/29/02	AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG003105	25	F12930-8	8330	W	op5012	700	10.0	1X	✓	ND
06	6	CC(5)-300		S1528				3:5	✓	passed
07	26	F12930-9		W	op5012	840	10.0	1X	✓	ND
08	27	-10				740			✓	ND
09	28	-11				820			✓	ND
10	29	-12				810			✓	ND
11	30	op5012-MS				350			✓	✓
12	31	-MSD				350			✓	✓
13	32	F12930-13				850			✓	ND
14	33	-14				810			✓	ND
15	6	CC(5)-300		S1528				3:5	✓	passed
16	34	ICV S1381		S1381				50X	✓	passed
17	35	F13011-1		S	op5050	2.04	20.0	4X	✓	✓ Confirm
18	6	CC(5)-300		S1528				3:5	✓	passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. R. Eger

LC1_LOG.xls NF rev. 9/01

T920

SAMPLE PREP REPORT

SGC.11

LIQUID SAMPLE PREP REPORT

Date: 07/15/02 Method*: 8330 EXP Batch#: OP 5484

Batch Started On: 07/15/02 Prior Number Of Samples In Batch : ϕ Analyst: FS

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 5484 MB	X	1000	6	NA	250µl	-	10.0 ml	
OP 5484 BS	X	1000	↓	↓	↓	250µl	↓	
F13929-1	6	1030	↓	↓	↓		↓	
OP MS								Insufficient sample ↓
OP MSD								
OP DUP								

07-15-02 FS

Surrogate ID: E1052L Conc: 10 ppm Exp. Date: 8/26/02 Bath Temp.: —

Spike ID: E1088 Conc: 10 ppm Exp. Date: 1/3/03 Bath Temp2.: —

CH2CL2 Lot # NA Hexane Lot # NA Na2SO4 Lot# NA

Acetonitrile Lot # CE823 Methanol Lot # NA Acetone Lot# NA

Reagent # Reagent # Reagent #

Comments:

Relinquished By: Fouad Date: 7-15-02

Accepted By: M. Zg Date: 7/16/02

026

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8332 prepped by 3535A.

Extwater.xls NE rev. 9/01

SECTION 10

INITIAL & CONTINUING CALIBRATION BLANK SUMMARY

MET.02

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC
QC Limits: result < RL

Date Analyzed: 07/16/02
Run ID: MA2891

Methods: SW846 6010B
Units: ug/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	-18	<200	-14	<200	-26	<200	-20	<200
Antimony	5.0	1.52	-1.1	<5.0	-1.9	<5.0	-0.87	<5.0	-2.2	<5.0
Arsenic	10	2.83	-1.5	<10	-0.87	<10	-0.59	<10	-3.0	<10
Barium	200	.49	-1.1	<200	-2.0	<200	-1.8	<200	-2.1	<200
Beryllium	5.0	.26	-1.3	<5.0	-2.0	<5.0	-1.9	<5.0	-1.6	<5.0
Cadmium	5.0	.26	-1.4	<5.0	-2.3	<5.0	-2.2	<5.0	-2.4	<5.0
Calcium	1000	3.82	-21	<1000	1.2	<1000	-13	<1000	-22	<1000
Chromium	10	.43	-1.2	<10	-1.7	<10	-1.3	<10	-1.4	<10
Cobalt	50	.5	-0.87	<50	-1.9	<50	-1.6	<50	-1.5	<50
Copper	25	.44	-0.94	<25	-2.0	<25	-2.3	<25	-3.0	<25
Iron	300	7.11	-24	<300	-21	<300	-22	<300	-23	<300
Lead	5.0	1.22	0.070	<5.0	0.12	<5.0	-0.99	<5.0	-1.5	<5.0
Magnesium	5000	9.88	-16	<5000	-7.7	<5000	-31	<5000	-33	<5000
Manganese	15	.16	-1.2	<15	-2.1	<15	-2.0	<15	-2.0	<15
Molybdenum	50	.75	anr							
Nickel	40	1.08	-0.74	<40	-2.0	<40	-1.8	<40	-2.2	<40
Potassium	5000	13.9	641	<5000	628	<5000	628	<5000	610	<5000
Selenium	10	1.98	4.2	<10	3.6	<10	2.0	<10	2.6	<10
Silver	10	.55	-0.34	<10	-0.21	<10	-0.72	<10	-0.94	<10
Sodium	5000	145	208	<5000	90.1	<5000	209	<5000	-39	<5000
Thallium	10	1.49	4.6	<10	-4.9	<10	-2.7	<10	-3.0	<10
Tin	50	2.18								
Vanadium	50	.47	-0.83	<50	-1.9	<50	-1.6	<50	-2.1	<50
Zinc	20	.59	-1.4	<20	-0.97	<20	-1.4	<20	-0.24	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC
QC Limits: result < RL

Date Analyzed: 07/16/02
Run ID: MA2891

Methods: SW846 6010B
Units: ug/l

Metal	RL	IDL	CCB raw	final	CCB raw	final
Aluminum	200	6.56	-5.2	<200	11.0	<200
Antimony	5.0	1.52	-1.4	<5.0	0.23	<5.0
Arsenic	10	2.83	-0.35	<10	-0.42	<10
Barium	200	.49	-2.0	<200	-2.0	<200
Beryllium	5.0	.26	-1.4	<5.0	-1.2	<5.0
Cadmium	5.0	.26	-2.0	<5.0	-2.2	<5.0
Calcium	1000	3.82	-11	<1000	-21	<1000
Chromium	10	.43	-1.6	<10	-1.4	<10
Cobalt	50	.5	-1.3	<50	-1.6	<50
Copper	25	.44	-3.8	<25	-3.7	<25
Iron	300	7.11	-24	<300	-13	<300
Lead	5.0	1.22	-0.63	<5.0	0.35	<5.0
Magnesium	5000	9.88	-25	<5000	-33	<5000
Manganese	15	.16	-2.0	<15	-2.0	<15
Molybdenum	50	.75	anr			
Nickel	40	1.08	-1.5	<40	-2.4	<40
Potassium	5000	13.9	630	<5000	623	<5000
Selenium	10	1.98	1.4	<10	1.8	<10
Silver	10	.55	-0.52	<10	-0.63	<10
Sodium	5000	145	89.9	<5000	203	<5000
Thallium	10	1.49	-0.67	<10	-0.64	<10
Tin	50	2.18				
Vanadium	50	.47	-2.1	<50	-2.0	<50
Zinc	20	.59	-0.090	<20	0.13	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC
QC Limits: result < RL

Date Analyzed: 07/19/02
Run ID: MA2896

Methods: SW846 6010B
Units: ug/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	-3.8	<200	54.3	<200	17.3	<200	24.0	<200
Antimony	5.0	1.52	-0.58	<5.0	-1.5	<5.0	-1.3	<5.0	-2.6	<5.0
Arsenic	10	2.83	-2.4	<10	-2.1	<10	-2.7	<10	-4.4	<10
Barium	200	.49	-0.41	<200	-1.0	<200	-0.92	<200	-0.93	<200
Beryllium	5.0	.26	-0.34	<5.0	-0.99	<5.0	-0.51	<5.0	-0.44	<5.0
Cadmium	5.0	.26	-0.59	<5.0	-1.3	<5.0	-1.6	<5.0	-1.6	<5.0
Calcium	1000	3.82	-7.1	<1000	-6.9	<1000	-14	<1000	-9.8	<1000
Chromium	10	.43	-0.82	<10	3.0	<10	2.1	<10	2.0	<10
Cobalt	50	.5	-0.60	<50	-1.3	<50	-1.0	<50	-1.3	<50
Copper	25	.44	-0.72	<25	-0.72	<25	-1.4	<25	-1.8	<25
Iron	300	7.11	-16	<300	1.3	<300	0.59	<300	10.1	<300
Lead	5.0	1.22	2.9	<5.0	2.0	<5.0	1.4	<5.0	0.84	<5.0
Magnesium	5000	9.88	-8.4	<5000	-3.1	<5000	-9.8	<5000	-8.7	<5000
Manganese	15	.16	-0.44	<15	-0.82	<15	-0.92	<15	-0.93	<15
Molybdenum	50	.75								
Nickel	40	1.08	-1.3	<40	0.39	<40	-0.36	<40	-0.040	<40
Potassium	5000	13.9	645	<5000	631	<5000	636	<5000	640	<5000
Selenium	10	1.98	1.1	<10	0.21	<10	1.9	<10	0.49	<10
Silver	10	.55	-0.18	<10	-0.24	<10	-0.39	<10	-0.090	<10
Sodium	5000	145	-42	<5000	-100	<5000	-27	<5000	31.7	<5000
Thallium	10	1.49	2.4	<10	0.77	<10	3.6	<10	2.2	<10
Tin	50	2.18								
Vanadium	50	.47	-0.41	<50	-1.2	<50	-0.91	<50	-1.1	<50
Zinc	20	.59	-0.62	<20	0.0	<20	-0.16	<20	-0.12	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC
QC Limits: result < RL

Date Analyzed: 07/19/02
Run ID: MA2896

Methods: SW846 6010B
Units: ug/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	26.2	<200	44.7	<200	34.0	<200
Antimony	5.0	1.52	-0.94	<5.0	-0.45	<5.0		
Arsenic	10	2.83	-2.9	<10	-4.2	<10		
Barium	200	.49	-1.0	<200	-0.39	<200		
Beryllium	5.0	.26	-0.22	<5.0	0.36	<5.0		
Cadmium	5.0	.26	-1.9	<5.0	-0.96	<5.0		
Calcium	1000	3.82	-13	<1000	-4.5	<1000		
Chromium	10	.43	1.7	<10	2.5	<10	0.070	<10
Cobalt	50	.5	-1.2	<50	-0.49	<50		
Copper	25	.44	-2.1	<25	-1.7	<25	-2.0	<25
Iron	300	7.11	0.29	<300	18.7	<300		
Lead	5.0	1.22	1.6	<5.0	2.9	<5.0		
Magnesium	5000	9.88	-14	<5000	0.43	<5000		
Manganese	15	.16	-1.0	<15	-0.36	<15	-1.1	<15
Molybdenum	50	.75						
Nickel	40	1.08	0.17	<40	0.91	<40	-1.5	<40
Potassium	5000	13.9	646	<5000	648	<5000		
Selenium	10	1.98	0.38	<10	4.4	<10		
Silver	10	.55	-0.28	<10	-0.020	<10		
Sodium	5000	145	-3.3	<5000	-24	<5000	-37	<5000
Thallium	10	1.49	1.2	<10	5.7	<10		
Tin	50	2.18						
Vanadium	50	.47	-1.3	<50	-0.61	<50		
Zinc	20	.59	0.0	<20	0.090	<20		

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: HG0723W1.HGX
QC Limits: result < RL

Date Analyzed: 07/23/02
Run ID: MA2901

Methods: SW846 7470A
Units: ug/l

Metal	RL	IDL	ICB raw	ICB final	CCB raw	CCB final	CCB raw	CCB final	CCB raw	CCB final
Mercury	1.0	.06	0.0076	<1.0	0.0076	<1.0	0.0076	<1.0	0.0076	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY

MET.03

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2891 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40000	39600	99.0	40000	40000	100.0	40000	39500	98.8
Antimony	2000	2050	102.5	2000	2080	104.0	2000	2110	105.5
Arsenic	2000	1970	98.5	2000	2040	102.0	2000	2090	104.5
Barium	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Beryllium	2000	2020	101.0	2000	2090	104.5	2000	2130	106.5
Cadmium	2000	1960	98.0	2000	2050	102.5	2000	2100	105.0
Calcium	40000	40600	101.5	40000	42400	106.0	40000	43500	108.8
Chromium	2000	2000	100.0	2000	2070	103.5	2000	2100	105.0
Cobalt	2000	1990	99.5	2000	2050	102.5	2000	2100	105.0
Copper	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Iron	40000	41500	103.8	40000	42900	107.3	40000	42600	106.5
Lead	2000	2010	100.5	2000	2080	104.0	2000	2120	106.0
Magnesium	40000	40200	100.5	40000	41200	103.0	40000	41900	104.8
Manganese	2000	2070	103.5	2000	2120	106.0	2000	2160	108.0
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2090	104.5	2000	2130	106.5
Potassium	40000	39900	99.8	40000	39500	98.8	40000	39200	98.0
Selenium	2000	2040	102.0	2000	2080	104.0	2000	2120	106.0
Silver	250	256	102.4	250	256	102.4	250	254	101.6
Sodium	40000	38300	95.8	40000	38100	95.3	40000	38400	96.0
Thallium	2000	1990	99.5	2000	2020	101.0	2000	2050	102.5
Tin									
Vanadium	2000	2020	101.0	2000	2060	103.0	2000	2080	104.0
Zinc	2000	2010	100.5	2000	2160	108.0	2000	2140	107.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2891 Units: ug/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40000	39800	99.5	40000	39300	98.3	40000	39700	99.3
Antimony	2000	2140	107.0	2000	2130	106.5	2000	2170	108.5
Arsenic	2000	2040	102.0	2000	2050	102.5	2000	2110	105.5
Barium	2000	2070	103.5	2000	2070	103.5	2000	2100	105.0
Beryllium	2000	2070	103.5	2000	2060	103.0	2000	2100	105.0
Cadmium	2000	2010	100.5	2000	2000	100.0	2000	2050	102.5
Calcium	40000	41800	104.5	40000	42100	105.3	40000	43200	108.0
Chromium	2000	2050	102.5	2000	2050	102.5	2000	2090	104.5
Cobalt	2000	2040	102.0	2000	2050	102.5	2000	2100	105.0
Copper	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Iron	40000	42300	105.8	40000	42200	105.5	40000	43200	108.0
Lead	2000	2050	102.5	2000	2050	102.5	2000	2090	104.5
Magnesium	40000	41300	103.3	40000	41500	103.8	40000	42500	106.3
Manganese	2000	2110	105.5	2000	2110	105.5	2000	2160	108.0
Molybdenum	anr								
Nickel	2000	2060	103.0	2000	2060	103.0	2000	2120	106.0
Potassium	40000	40300	100.8	40000	40000	100.0	40000	40200	100.5
Selenium	2000	2090	104.5	2000	2090	104.5	2000	2130	106.5
Silver	250	253	101.2	250	249	99.6	250	249	99.6
Sodium	40000	39100	97.8	40000	39000	97.5	40000	39700	99.3
Thallium	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Tin									
Vanadium	2000	2110	105.5	2000	2110	105.5	2000	2140	107.0
Zinc	2000	2100	105.0	2000	2120	106.0	2000	2210	110.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2896 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40000	38600	96.5	40000	39700	99.3	40000	38100	95.3
Antimony	2000	2050	102.5	2000	2090	104.5	2000	2050	102.5
Arsenic	2000	2010	100.5	2000	2040	102.0	2000	1980	99.0
Barium	2000	2020	101.0	2000	2070	103.5	2000	2010	100.5
Beryllium	2000	2050	102.5	2000	2080	104.0	2000	2020	101.0
Cadmium	2000	1990	99.5	2000	2030	101.5	2000	1960	98.0
Calcium	40000	41500	103.8	40000	42300	105.8	40000	41100	102.8
Chromium	2000	2030	101.5	2000	2060	103.0	2000	2000	100.0
Cobalt	2000	2020	101.0	2000	2060	103.0	2000	1990	99.5
Copper	2000	2010	100.5	2000	2040	102.0	2000	1990	99.5
Iron	40000	42300	105.8	40000	42900	107.3	40000	41600	104.0
Lead	2000	2030	101.5	2000	2060	103.0	2000	2010	100.5
Magnesium	40000	40500	101.3	40000	41300	103.3	40000	40300	100.8
Manganese	2000	2090	104.5	2000	2130	106.5	2000	2060	103.0
Molybdenum									
Nickel	2000	2050	102.5	2000	2080	104.0	2000	2010	100.5
Potassium	40000	39100	97.8	40000	39500	98.8	40000	39000	97.5
Selenium	2000	2040	102.0	2000	2080	104.0	2000	2030	101.5
Silver	250	254	101.6	250	256	102.4	250	246	98.4
Sodium	40000	37400	93.5	40000	38300	95.8	40000	37700	94.3
Thallium	2000	1990	99.5	2000	2010	100.5	2000	1960	98.0
Tin									
Vanadium	2000	2030	101.5	2000	2060	103.0	2000	2020	101.0
Zinc	2000	2080	104.0	2000	2130	106.5	2000	2050	102.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2896 Units: ug/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40000	37900	94.8	40000	38000	95.0	40000	38000	95.0
Antimony	2000	2080	104.0	2000	2090	104.5	2000	2100	105.0
Arsenic	2000	2020	101.0	2000	2060	103.0	2000	2060	103.0
Barium	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Beryllium	2000	2040	102.0	2000	2060	103.0	2000	2070	103.5
Cadmium	2000	1980	99.0	2000	2020	101.0	2000	2020	101.0
Calcium	40000	42000	105.0	40000	42700	106.8	40000	43000	107.5
Chromium	2000	2030	101.5	2000	2050	102.5	2000	2050	102.5
Cobalt	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0
Copper	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Iron	40000	42300	105.8	40000	42800	107.0	40000	43100	107.8
Lead	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0
Magnesium	40000	41000	102.5	40000	41600	104.0	40000	41700	104.3
Manganese	2000	2090	104.5	2000	2110	105.5	2000	2120	106.0
Molybdenum									
Nickel	2000	2050	102.5	2000	2070	103.5	2000	2080	104.0
Potassium	40000	38700	96.8	40000	38900	97.3	40000	38800	97.0
Selenium	2000	2060	103.0	2000	2090	104.5	2000	2100	105.0
Silver	250	245	98.0	250	244	97.6	250	244	97.6
Sodium	40000	37800	94.5	40000	38100	95.3	40000	38200	95.5
Thallium	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Tin									
Vanadium	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Zinc	2000	2120	106.0	2000	2170	108.5	2000	2080	104.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC
QC Limits: 90 to 110 % Recovery

Date Analyzed: 07/19/02
Run ID: MA2896

Methods: SW846 6010B
Units: ug/l

Metal	CCV True	CCV Results	% Rec
Aluminum	40000	38500	96.3
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium	2000	2110	105.5
Cobalt			
Copper	2000	2020	101.0
Iron			
Lead			
Magnesium			
Manganese	2000	2170	108.5
Molybdenum			
Nickel	2000	2140	107.0
Potassium			
Selenium			
Silver			
Sodium	40000	39000	97.5
Thallium			
Tin			
Vanadium			
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: HG0723W1.HGX Date Analyzed: 07/23/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2901 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	2.8	93.3	3.0	2.8	93.3	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

0280

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: HG0723W1.HGX Date Analyzed: 07/23/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA2901 Units: ug/l

Metal	CCV True	CCV Results	% Rec
Mercury	3.0	2.6	86.7

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

MET.04

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/16/02
Run ID: MA2891

Methods: SW846 6010B
Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	400		370	92.5
Antimony	10		8.0	80.0
Arsenic	20		16.7	83.5
Barium	400		411	102.8
Beryllium	10		8.7	87.0
Cadmium	10		7.9	79.0
Calcium	2000		2110	105.5
Chromium	20		16.2	81.0
Cobalt	100		102	102.0
Copper	50		49.1	98.2
Iron	600		670	111.7
Lead	10		9.2	92.0
Magnesium	10000		10000	100.0
Manganese	30		30.9	103.0
Molybdenum	100		anr	
Nickel	80		85.3	106.6
Potassium	10000		9670	96.7
Selenium	10		12.3	123.0
Silver	20		19.2	96.0
Sodium	10000		8490	84.9
Thallium	20		15.4	77.0
Tin	100			
Vanadium	100		103	103.0
Zinc	40		41.9	104.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2896 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	400		387	96.8
Antimony	10		8.8	88.0
Arsenic	20		18.3	91.5
Barium	400		418	104.5
Beryllium	10		9.5	95.0
Cadmium	10		8.4	84.0
Calcium	2000		2190	109.5
Chromium	20		20.3	101.5
Cobalt	100		104	104.0
Copper	50		50.3	100.6
Iron	600		698	116.3
Lead	10		11.8	118.0
Magnesium	10000		10200	102.0
Manganese	30		32.3	107.7
Molybdenum	100			
Nickel	80		90.3	112.9
Potassium	10000		9650	96.5
Selenium	10		10.7	107.0
Silver	20		19.4	97.0
Sodium	10000		8430	84.3
Thallium	20		18.4	92.0
Tin	100			
Vanadium	100		106	106.0
Zinc	40		45.5	111.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: HG0723W1.HGX
QC Limits: to % Recovery

Date Analyzed: 07/23/02
Run ID: MA2901

Methods: SW846 7470A
Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.50		0.62	124.0

(*) Outside of QC limits
(anr) Analyte not requested

0285

INTERFERING ELEMENT CHECK STANDARDS SUMMARY

MET.05

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2891 Units: ug/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSAB Results	% Rec	ICSAB Results	% Rec
Aluminum	500000	500000	525000	105.0			512000	102.4
Antimony		1000	-4.2				1030	103.0
Arsenic		1000	0.35				1040	104.0
Barium		500	-0.88				518	103.6
Beryllium		500	-3.4				500	100.0
Cadmium		1000	-3.8				948	94.8
Calcium	500000	500000	489000	97.8			476000	95.2
Chromium		500	-2.2				491	98.2
Cobalt		500	-1.4				480	96.0
Copper		500	-19				505	101.0
Iron	200000	200000	208000	104.0			202000	101.0
Lead		1000	-3.7				987	98.7
Magnesium	500000	500000	553000	110.6			541000	108.2
Manganese		500	-1.9				501	100.2
Molybdenum		1000	-7.6				975	97.5
Nickel		1000	-0.97				962	96.2
Potassium			651				253	
Selenium		1000	-1.1				1030	103.0
Silver		1000	-0.37				1070	107.0
Sodium			144				495	
Thallium		1000	-3.4				976	97.6
Tin		1000	-6.0				978	97.8
Vanadium		500	3.9				509	101.8
Zinc		1000	-8.0				958	95.8

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2896 Units: ug/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500000	500000			501000	100.2	507000	101.4
Antimony		1000			3.3		1050	105.0
Arsenic		1000			1.3		1050	105.0
Barium		500			0.52		533	106.6
Beryllium		500			-2.1		506	101.2
Cadmium		1000			0.080		954	95.4
Calcium	500000	500000			477000	95.4	480000	96.0
Chromium		500			1.8		499	99.8
Cobalt		500			-0.83		486	97.2
Copper		500			-18		511	102.2
Iron	200000	200000			202000	101.0	205000	102.5
Lead		1000			-1.3		995	99.5
Magnesium	500000	500000	541000		541000	108.2	550000	110.0
Manganese		500			-1.3		507	101.4
Molybdenum		1000			-4.6		990	99.0
Nickel		1000			1.3		975	97.5
Potassium					623		250	
Selenium		1000			-3.6		1040	104.0
Silver		1000			-0.90		1060	106.0
Sodium					-120		202	
Thallium		1000			-2.1		994	99.4
Tin		1000			-3.7		984	98.4
Vanadium		500			4.9		515	103.0
Zinc		1000			-9.7		970	97.0

(*) Outside of QC limits
(anr) Analyte not requested

METHOD BLANK SUMMARY

MET.06

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4570
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/15/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	-20	<200
Antimony	5.0	1.52	-2.4	<5.0
Arsenic	10	2.83	-4.3	<10
Barium	200	.49	-2.7	<200
Beryllium	5.0	.26	-2.1	<5.0
Cadmium	5.0	.26	-2.6	<5.0
Calcium	1000	3.82	-6.0	<1000
Chromium	10	.43	-5.2	<10
Cobalt	50	.5	-2.2	<50
Copper	25	.44	-2.5	<25
Iron	300	7.11	-48	<300
Lead	5.0	1.22	-1.7	<5.0
Magnesium	5000	9.88	0.69	<5000
Manganese	15	.16	-2.7	<15
Molybdenum	50	.75		
Nickel	40	1.08	-4.5	<40
Potassium	5000	13.9	638	<5000
Selenium	10	1.98	0.76	<10
Silver	10	.55	-0.79	<10
Sodium	5000	145	430	<5000
Thallium	10	1.49	-8.1	<10
Tin	50	2.18		
Vanadium	50	.47	-2.4	<50
Zinc	20	.59	1.4	<20

Associated samples MP4570: F13829-1, F13829-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

0290

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4582
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/16/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.06	0.0076	<1.0

Associated samples MP4582: F13829-1, F13829-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

0291

MATRIX SPIKE/DUPLICATE SUMMARY

MET.07

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4570
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			07/15/02					07/15/02		
Metal	F13829-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F13829-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	492	31200	29000	105.9	70-122	492	30600	29000	103.8	70-122
Antimony	0.0	1090	1000	109.0	66-120	0.0	1070	1000	107.0	66-120
Arsenic	0.0	4140	4000	103.5	75-120	0.0	4090	4000	102.3	75-120
Barium	172	4380	4000	105.2	72-120	172	4290	4000	103.0	72-120
Beryllium	0.0	101	100	101.0	73-120	0.0	99.4	100	99.4	73-120
Cadmium	0.0	95.0	100	95.0	72-120	0.0	93.8	100	93.8	72-120
Calcium	191000	210000	25000	76.0	37-150	191000	213000	25000	88.0	37-150
Chromium	0.0	411	400	102.8	69-122	0.0	404	400	101.0	69-122
Cobalt	13.7	1010	1000	99.6	69-120	13.7	1000	1000	98.6	69-120
Copper	0.0	527	500	105.4	70-120	0.0	517	500	103.4	70-120
Iron	704	29200	27000	105.5	72-122	704	28800	27000	104.1	72-122
Lead	0.0	1030	1000	103.0	70-126	0.0	1010	1000	101.0	70-126
Magnesium	73900	97600	25000	94.8	73-127	73900	98200	25000	97.2	73-127
Manganese	97.8	1150	1000	105.2	74-122	97.8	1130	1000	103.2	74-122
Molybdenum										
Nickel	0.0	1020	1000	102.0	69-120	0.0	1000	1000	100.0	69-120
Potassium	16300	45300	25000	116.0	61-122	16300	44800	25000	114.0	61-122
Selenium	0.0	4140	4000	103.5	74-120	0.0	4070	4000	101.8	74-120
Silver	0.0	100	100	100.0	52-126	0.0	97.9	100	97.9	52-126
Sodium	101000	130000	25000	116.0	56-130	101000	131000	25000	120.0	56-130
Thallium	0.0	4210	4000	105.3	80-122	0.0	4150	4000	103.8	80-122
Tin										
Vanadium	0.0	1070	1000	107.0	75-122	0.0	1060	1000	106.0	75-122
Zinc	5.9	1040	1000	103.4	68-123	5.9	1020	1000	101.4	68-123

Associated samples MP4570: F13829-1, F13829-1A

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: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4570
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/15/02

Metal	F13829-1 Original	DUP	RPD	QC Limits
Aluminum	492	67.1	152.0*(a	0-23
Antimony	0.0	0.0	NC	0-20
Arsenic	0.0	0.0	NC	0-29
Barium	172	164	4.8	0-20
Beryllium	0.0	0.0	NC	0-25
Cadmium	0.0	0.0	NC	0-20
Calcium	191000	188000	1.6	0-20
Chromium	0.0	61.1	200.0*(b	0-47
Cobalt	13.7	13.0	5.2	0-30
Copper	0.0	0.0	NC	0-21
Iron	704	476	38.6 (c)	0-23
Lead	0.0	0.0	NC	0-44
Magnesium	73900	71700	3.0	0-20
Manganese	97.8	96.6	1.2	0-30
Molybdenum				
Nickel	0.0	30.1	200.0(c)	0-56
Potassium	16300	15500	5.0	0-20
Selenium	0.0	0.0	NC	0-36
Silver	0.0	0.0	NC	0-20
Sodium	101000	98700	2.3	0-20
Thallium	0.0	0.0	NC	0-26
Tin				
Vanadium	0.0	0.0	NC	0-28
Zinc	5.9	5.5	7.0	0-54

Associated samples MP4570: F13829-1, F13829-1A

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) High RPD due to possible sample nonhomogeneity.
(b) Rerun confirms result.
(c) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4582
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/16/02 07/16/02

Metal	F13798-2 Original	DUP	RPD	QC Limits	F13798-2 Original	MS	Spikelot HGFLWS	% Rec	QC Limits
Mercury	18.7	18.9	1.1	0-20	18.7	22.5	3	126.7	62-131

Associated samples MP4582: F13829-1, F13829-1A

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: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4582
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/16/02

Metal	F13798-2 Original	MSD	Spikelot HGFLWS	% Rec	QC Limits
Mercury	18.7	20.8	3	70.0	62-131

Associated samples MP4582: F13829-1, F13829-1A

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

0296

SPIKE BLANK/LAB CONTROL SAMPLE SUMMARY

MET.08

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4570
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/15/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	28500	29000	98.3	80-120
Antimony	1060	1000	106.0	80-120
Arsenic	4030	4000	100.8	80-120
Barium	4140	4000	103.5	80-120
Beryllium	103	100	103.0	80-120
Cadmium	96.5	100	96.5	80-120
Calcium	26000	25000	104.0	80-120
Chromium	413	400	103.3	80-120
Cobalt	1020	1000	102.0	80-120
Copper	516	500	103.2	80-120
Iron	28500	27000	105.6	80-120
Lead	1030	1000	103.0	80-120
Magnesium	25000	25000	100.0	80-120
Manganese	1060	1000	106.0	80-120
Molybdenum				
Nickel	1040	1000	104.0	80-120
Potassium	24600	25000	98.4	80-120
Selenium	4080	4000	102.0	80-120
Silver	97.5	100	97.5	80-120
Sodium	23400	25000	93.6	80-120
Thallium	4210	4000	105.3	80-120
Tin				
Vanadium	1070	1000	107.0	80-120
Zinc	1060	1000	106.0	80-120

Associated samples MP4570: F13829-1, F13829-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4582
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/16/02

Metal	BSP Result	Spikelot HGFLWS	% Rec	QC Limits
Mercury	3.2	3	106.7	80-120

Associated samples MP4582: F13829-1, F13829-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

MET.09

SERIAL DILUTION RESULTS SUMMARY

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4570
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/15/02

Metal	F13829-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	492	405	17.7*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	172	161	6.2	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	191000	199000	4.4	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	13.7	3.08	77.6 (b)	0-10
Copper	0.00	0.00	NC	0-10
Iron	704	649	7.8	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	73900	73500	0.6	0-10
Manganese	97.8	90.0	8.0	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	16300	16000	2.0	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	101000	84800	15.6*(a)	0-10
Thallium	0.00	0.00	NC	0-10
Tin				
Vanadium	0.00	0.00	NC	0-10
Zinc	5.85	5.16	11.8 (b)	0-10

Associated samples MP4570: F13829-1, F13829-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

INSTRUMENT RUN LOG

MET.10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2891
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
09:11	MA2891-ICV1	1		
09:15	MA2891-ICB1	1		
09:18	MA2891-CRI1	1		
09:21	MA2891-ICSA1	1		
09:25	MA2891-ICSAB1	1		
09:34	MA2891-ICSAB2	1		
09:38	MA2891-CCV1	1		
09:44	MA2891-CCB1	1		
09:48	ZZZZZZ	1		
09:52	ZZZZZZ	1		
09:56	ZZZZZZ	1		
10:00	ZZZZZZ	1		
10:04	MP4568-MB1	1		
10:08	MP4568-B1	1		
10:14	F13806-1	1		(sample used for QC only; not part of login F13829)
10:18	MP4568-S1	1		
10:22	MP4568-S2	1		
10:30	MP4568-D1	1		
10:36	MA2891-CCV2	1		
10:42	MA2891-CCB2	1		
10:59	MP4568-SD1	5		
11:03	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:39	MA2891-CCV3	1		
11:45	MA2891-CCB3	1		
11:54	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2891
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
	11:58	ZZZZZZ	1		
	12:02	ZZZZZZ	1		
	12:05	ZZZZZZ	1		
	12:09	ZZZZZZ	1		
	12:13	ZZZZZZ	1		
	12:17	ZZZZZZ	1		
	12:21	MP4570-MB1	1		
	12:25	MP4570-B1	1		
	12:31	F13829-1	1		
	12:35	MA2891-CCV4	1		
	12:42	MA2891-CCB4	1		
	12:46	MP4570-S1	1		
	12:49	MP4570-S2	1		
	12:58	MP4570-D1	1		
	13:02	MP4570-SD1	5		
	13:06	F13829-1A	1		
---------->	Last reportable sample/prep for job F13829				
	13:10	ZZZZZZ	1		
	13:14	ZZZZZZ	1		
	13:18	ZZZZZZ	1		
	13:22	ZZZZZZ	1		
	13:26	ZZZZZZ	1		
	13:29	MA2891-CCV5	1		
	13:36	MA2891-CCB5	1		
---------->	Last reportable CCB for job F13829				
	13:58	ZZZZZZ	1		
	14:02	ZZZZZZ	1		
	14:06	ZZZZZZ	1		
	14:10	ZZZZZZ	1		
	14:14	ZZZZZZ	1		
	14:18	ZZZZZZ	1		
	14:22	ZZZZZZ	1		
	14:25	ZZZZZZ	1		
	14:29	ZZZZZZ	1		
	14:33	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2891
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
14:37	MA2891-CCV6	1		
14:44	MA2891-CCB6	1		
14:48	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:55	ZZZZZZ	1		
14:59	MA2891-CCV7	1		
15:06	MA2891-CCB7	1		
15:14	MP4571-MB1	1		
15:18	MP4571-B1	1		
15:24	F13821-15	1		(sample used for QC only; not part of login F13829)
15:28	MP4571-S1	1		
15:32	MP4571-S2	1		
15:39	MP4571-D1	1		
15:43	MP4571-SD1	5		
15:47	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	MA2891-CCV8	1		
16:05	MA2891-CCB8	1		
16:09	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:48	MA2891-CCV9	1		
16:55	MA2891-CCB9	1		
16:59	ZZZZZZ	1		
17:03	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0716M5.ASC Date Analyzed: 07/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2891
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
17:07	ZZZZZZ	1		
17:11	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:18	MP4572-MB1	1		
17:22	MP4572-B1	1		
17:29	F13821-23	1		(sample used for QC only; not part of login F13829)
17:33	MP4572-S1	1		
17:36	MP4572-S2	1		
17:44	MA2891-CCV10	1		
17:51	MA2891-CCB10	1		
17:54	MP4572-D1	1		
17:58	MP4572-SD1	5		
18:02	ZZZZZZ	1		
18:06	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:14	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:22	ZZZZZZ	1		
18:26	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:33	MA2891-CCV11	1		
18:40	MA2891-CCB11	1		

Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2896
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:10	MA2896-ICV1	1		
10:13	MA2896-ICB1	1		
10:22	MA2896-CRI1	1		
10:28	MA2896-ICSA1	1		
10:32	MA2896-ICSA2	1		
10:33	MA2896-ICSAB1	1		
10:43	MA2896-CCV1	1		
10:49	MA2896-CCB1	1		
11:07	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:30	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:46	MA2896-CCV2	1		
11:52	MA2896-CCB2	1		
11:56	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:12	MP4586-MB1	1		
12:16	MP4586-B1	1		
12:22	F13872-1	1		(sample used for QC only; not part of login F13829)
12:26	MP4586-S1	1		
12:30	MP4586-S2	1		
12:40	MP4586-D1	1		
12:44	MA2896-CCV3	1		
12:50	MA2896-CCB3	1		
12:54	MP4586-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2896
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	12:58	ZZZZZZ	1		
	13:02	ZZZZZZ	1		
	13:06	ZZZZZZ	1		
	13:10	ZZZZZZ	1		
	13:14	ZZZZZZ	1		
	13:18	ZZZZZZ	1		
	13:21	ZZZZZZ	1		
	13:25	ZZZZZZ	1		
	13:29	ZZZZZZ	1		
	13:33	MA2896-CCV4	1		
	13:40	MA2896-CCB4	1		
	13:44	ZZZZZZ	1		
	13:47	ZZZZZZ	1		
	13:51	ZZZZZZ	1		
	13:55	ZZZZZZ	1		
	14:08	MP4584-SD1	5		
	14:15	MA2896-CCV5	1		
	14:19	MA2896-CCB5	1		
	14:27	MP4566-D1	1		
	14:31	MP4570-D1	1		
---------->	Last reportable sample/prep for job F13829				
	14:34	MP4581-D1	1		
	14:38	F13778-1	20		(sample used for QC only; not part of login F13829)
	14:42	ZZZZZZ	20		
	14:45	ZZZZZZ	20		
	14:49	ZZZZZZ	20		
	14:52	ZZZZZZ	20		
	14:56	ZZZZZZ	20		
	14:59	ZZZZZZ	20		
	15:03	MA2896-CCV6	1		
	15:09	MA2896-CCB6	1		
---------->	Last reportable CCB for job F13829				
	15:12	ZZZZZZ	20		
	15:16	ZZZZZZ	20		
	15:19	ZZZZZZ	20		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR0719M5.ASC Date Analyzed: 07/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2896
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn (QC only)

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:23	ZZZZZZ	20		
15:26	ZZZZZZ	20		
15:30	MP4586-D1	1		
15:36	MA2896-CCV7	1		
15:43	MA2896-CCB7	1		

Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F13829
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: HG0723W1.HGX
Analyst: SJL
Parameters: Hg

Date Analyzed: 07/23/02
Run ID: MA2901

Methods: SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:00	MA2901-ICV1	1		
00:00	MA2901-ICB1	1		
00:00	MA2901-CCV1	1		
00:00	MA2901-CCB1	1		
00:00	MA2901-CRI1	1		
00:00	MP4582-MB1	1		
00:00	MP4582-B1	1		
00:00	MP4582-S1	5		
00:00	MP4582-S2	5		
00:00	MP4582-D1	5		
00:00	F13798-2	5		(sample used for QC only; not part of login F13829)
00:00	MA2901-CCV2	1		
00:00	MA2901-CCB2	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:00	F13829-1	1		
00:00	F13829-1A	1		
00:00	ZZZZZZ	1		
00:00	MA2901-CCV3	1		
00:00	MA2901-CCB3	1		

Refer to raw data for calibration curve and standards.

METALS DIGESTION LOG

MET.11

Metals Digestion Log: Water

Method of Digestion: SW846-3010A/3005A/EPA 200.7 (CIRCLE ONE) Temp: 92 Thermometer ID 104

	HNO3	HCl	Spk. Sol.*	Amount Used*
Added:			1 ACC255	1mL
			2 ALL257	.25mL
			3 MET 757	MET 757 .5mL
Mfg:	Fisher	Fisher		
Lot#	1101020	4101080		M.045-70

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 7/15/02	50 mL	50mL	7/15/02	
SB ↓				
MS F13829-1				
MSD F13829-1				
Dup F13829-1				
1 QC F13829-1				
2 ↓ -1A				
3 F13808-1				
4 F13819-12				
5 -14				
6 -15				
7 -16				
8 -12A				
9 -14A				
10 -15A				
11 -16A				
12 F13836-1				
13 -2				
14 -3				
15 -4				
16 -5				
17 -6				
18 F13809-2				
19 -3				
20 -4				

Analyst [signature] Date 7/15/02

QC Review [signature] Date 7/15/02

Rev. 05/31/02 DJM * Used For SB, MS, MSD Page Number:

MERCURY DIGESTION LOG

MET.12

MP4582

Mercury Digestion Log: Water and Soil (circle one)

Method of Digestion: EPA 245.1 Temp., C: 95

Analyst: SJL Thermometer #: red

Date/Time Started: 800 7.16.02 Date/Time Ended: 1000 7.16.02

MA2901

*Digest solid matrices for 30 min, aqueous matrices for 2 hours.

Reagents Added	HNO_3	HCl	H_2SO_4	$KMnO_4$	$K_2S_2O_8$	$SnCl_2$	H_3NOHCl
Manuf.	Fisher						
Lot #	1010020		300190	GN7090		GN7097	

Sample #	Wt., g	Init. Vol.,mL	Final Vol.,mL	Comments SJL
STD 1			100	GN7099
STD 2				
STD 3				
STD 4				
STD 5				
STD 6				
STD 7				
Cal. Blank		100		
Method Blank				
Blank Spike				
MS F3798.2				
MSD .2				
Dup. .2				
1 .2				
2 F3820 .1				
3 .17				
4 .26				
5 F3829 .1				
6 .19				
7 F3819 .12				
8 .14				
9 .15	//			
10 .16		✓	✓	
11 F3856 .1				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Analyst's Signature SJL Date: 7.16.02

Reviewer's Signature [signature] Date: 7/19/02

0314

Rev. 07-03-01 SI

MERCURY ANALYSIS SHEET

MET.13

Accutest Labs Correlation Coefficient /Slope/Intercept Program
HG Analysis Sheet

Instrument ID:	HG1
Analyst:	STEVE
Date of Analysis:	07/23/2002
File Name:	HG0723W1

Corr. Coef:	0.99820
Slope:	2.46102248
Intercept:	0.00049855

Sample #	X Values(abs)	Y Values Conc. (ug)	DF	Raw Conc. ug/L
CALBLK	0.0000	0.0000		
STD1	0.0200	0.0500		
STD2	0.0410	0.1000		
STD3	0.0830	0.2000		
STD4	0.1170	0.3000		
STD5	0.1680	0.4000		
STD6	0.1970	0.5000		
STD7	0.2460	0.6000		
ICV 2	0.1130	0.2787		2.7868
ICB	0.0000	0.0008		0.0076
CCV	0.1140	0.2811		2.8114
CCB	0.0000	0.0008		0.0076
CRI	0.0250	0.0622		0.6224
MP4582-MB1	0.0000	0.0008		0.0076
MP4582-B1	0.1310	0.3230		3.2295
MP4582-S1	0.1830	0.4508	5	22.5425
MP4582-S2	0.1690	0.4164	5	20.8208
MP4582-D1	0.1530	0.3771	5	18.8532
F13798-2	0.1520	0.3746	5	18.7302
CCV	0.1200	0.2959		2.9590
CCB	0.0000	0.0008		0.0076
F13819-12	0.0000	0.0008		0.0076
F13819-14	0.0030	0.0081		0.0813
F13819-15	0.0040	0.0106		0.1059
F13819-16	0.0000	0.0008		0.0076
F13821-1	0.0060	0.0155		0.1551
F13821-17	0.0000	0.0008		0.0076
F13821-26	0.0000	0.0008		0.0076
F13829-1	0.0010	0.0032		0.0322
F13829-1A	0.0010	0.0032		0.0322
F13856-1	0.0000	0.0008		0.0076
CCV	0.1070	0.2639		2.6393
CCB	0.0000	0.0008		0.0076