W03130-STL

0053284

CASE NARRATIVE

RECEIVED
JUN 26 2000
EDMC

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

May 12, 2000

Attention: Joan Kessner

MAY 2000
RECEIVED
Data
Log In

Project Number	:	33548
SAF	:	B99-018
SDG	:	W03130
Number of Samples	:	one (1)
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	April 6, 2000

II. Introduction

On April 6, 2000, one (1) "water" sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. The samples were received within temperature criteria. See the attached Sample Summary sheet for the client and lab Ids for these samples.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested:

pH – 150.1
Sulfate – 375.4
TDS – 160.1
TSS – 160.2
Arsenic – 7060 (GFAA)
ICP Metals – 6010 TAL
Chlorine (Total Residual) – 330.3
Acrylamide – 8316
VOA – 8240 (Appen IX)
VOA – 8260A (TCL)

Deviation from Request: There were no deviations.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
MS- Matrix Spike.
DUP- Matrix Duplicate
MSD- Matrix Spike Duplicate.

V. Comments

General: The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Please refer to the attached cross-reference table for the standard preparation methods used at Quanterra, St. Louis.

VOA: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with the 8260 or 8240 Volatiles data.

Acrylamide: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with this data.

Metals: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with this data.

Wet Chemistry: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Duplicate were analyzed with the Sulfate preparation batch per the protocol for this analysis. A duplicate was analyzed as QC for the pH, TSS, TDS and Residual Chlorine analyses.

There were no comments or non-conformances associated with the Wet Chemistry data.

I certify that this Data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Marti Ward
St. Louis Project Manager

SAMPLE SUMMARY

F0D080134

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DAMHL	001	B0XY82	04/05/00	10:57

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.

METHODS SUMMARY

F0D080134

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH (Electrometric)	MCAWW 150.1	MCAWW 150.1
Acrylamide, Acrylonitrile and Acrolein by HPLC	SWDFT 8316	
Arsenic (AA, Furnace Technique)	SW846 7060	SW846 7060
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Residual Chlorine 330.3	MCAWW 330.3	
Sulfate	MCAWW 375.4	MCAWW 375.4
Volatile Organics by GC/MS	SW846 8240A	SW846 8240A
Volatile Organics by GC/MS	SW846 8260A	SW846 5030/8260

References:

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

SWDFT "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Draft Methods.

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

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 4/08/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 11:59:22
STL St. Louis User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0D080134-001
PROJECT #: PERMIT MONITOR WORK ORDER: DAMHL
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 4/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 4/05/00
SITE: B99-018 ANALYTICAL DUE DATE: 5/05/00N
AMOUNT REC"D: 125P,250P,4X500P,LP,9X40M REPORT DUE DATE: 5/22/00
STORAGE LOC: R21D, V4D PRIORITY: 28
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:57
MATRIX: WATER RECEIVING TIME: 13:45
SAMPLE ID: B0XY82
QC PACKAGE: Special Report - see checklist SDG# : W03130
SAMPLE COMMENTS:
ONLY PH,TDS,TSS,RCL TO GET DUP FOR QC
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) DAMHL-1-01 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	4/08/00	0/00/00	4/19/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) DAMHL-1-04 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
pH - Aqueous (150.1)	06	4/08/00	0/00/00	4/07/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AJ-01) DAMHL-1-24 Protocol: A QC Program: STANDARD TEST SET				
Solids, Filterable "TDS" (160.1)	06	4/08/00	0/00/00	4/12/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AK-01) DAMHL-1-27 Protocol: A QC Program: STANDARD TEST SET				
Chlorine, Residual (330.3)	06	4/08/00	0/00/00	4/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-RD-01) DAMHL-1-2A Protocol: A QC Program: STANDARD TEST SET				
Sulfate 375.4)	06	4/08/00	0/00/00	5/03/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-UV-01) DAMHL-1-2E Protocol: A QC Program: STANDARD TEST SET				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 4/08/00
Page 2 CLIENT ANALYSIS SUMMARY Time: 11:59:22
STL St. Louis User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0D080134-001
PROJECT #: PERMIT MONITOR WORK ORDER: DAMHL
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 4/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 4/05/00
SITE: B99-018 ANALYTICAL DUE DATE: 5/05/00N
AMOUNT REC"D: 125P,250P,4X500P,LP,9X40M REPORT DUE DATE: 5/22/00
STORAGE LOC: R21D, V4D PRIORITY: 28
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:57
MATRIX: WATER RECEIVING TIME: 13:45
SAMPLE ID: B0XY82
QC PACKAGE: Special Report - see checklist SDG# : W03130
SAMPLE COMMENTS:
ONLY PH,TDS,TSS,RCL TO GET DUP FOR QC
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Solids, Total Suspended "TSS" (160.2)	06	4/08/00	0/00/00	4/12/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AL-01) DAMHL-1-2H Protocol: A QC Program: STANDARD TEST SET				
Volatile Organics, GC/MS (8240)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-FB-5I) DAMHL-1-2L Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 4/08/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 11:59:22
STL St. Louis User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0D080134-001-D
PROJECT #: PERMIT MONITOR WORK ORDER: DAMHL MSD
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 4/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 4/05/00
SITE: B99-018 ANALYTICAL DUE DATE: 5/05/00N
AMOUNT REC"D: 125P,250P,4X500P,LP,9X40M REPORT DUE DATE: 5/22/00
STORAGE LOC: R21D, V4D PRIORITY: 28
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:57
MATRIX: WATER RECEIVING TIME: 13:45
SAMPLE ID: B0XY82
QC PACKAGE: Special Report - see checklist SDG# : W03130
SAMPLE COMMENTS:
ONLY PH,TDS,TSS,RCL TO GET DUP FOR QC Sulfate
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) DAMHL-1-03 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	4/08/00	0/00/00	4/19/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) DAMHL-1-06 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
~~Sulfate 375.4)~~ - deleted 4/10/mw	06	4/08/00	0/00/00	5/03/00
~~NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION~~				
~~(I-88-UV-01) DAMHL-1-2G Protocol: A QC Program: STANDARD TEST SET~~				
Volatile Organics, GC/MS (8240)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-FB-5I) DAMHL-1-2N Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 4/08/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 11:59:22
STL St. Louis User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0D080134-001-S
PROJECT #: PERMIT MONITOR WORK ORDER: DAMHL MS
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 4/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 4/05/00
SITE: B99-018 ANALYTICAL DUE DATE: 5/05/00N
AMOUNT REC'D: 125P,250P,4X500P,LP,9X40M REPORT DUE DATE: 5/22/00
STORAGE LOC: R21D, V4D PRIORITY: 28
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:57
MATRIX: WATER RECEIVING TIME: 13:45
SAMPLE ID: B0XY82
QC PACKAGE: Special Report - see checklist SDG# : W03130
SAMPLE COMMENTS:
ONLY PH,TDS,TSS,RCL TO GET DUP FOR QC
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) DAMHL-1-02 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	4/08/00	0/00/00	4/19/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) DAMHL-1-05 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	4/08/00	0/00/00	10/02/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) DAMHL Protocol: A QC Program: STANDARD TEST SET				
Sulfate 375.4)	06	4/08/00	0/00/00	5/03/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-UV-01) DAMHL-1-2F Protocol: A QC Program: STANDARD TEST SET				
Volatile Organics, GC/MS (8240)	06	4/08/00	0/00/00	4/19/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-FB-5I) DAMHL-1-2M Protocol: A QC Program: CLIENT: HANFORD				

LOT #F0D080134

STL ST. LOUIS

CUR# 305 2°

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-018-36	Page 1 of 2
Collector: Johansen	Company Contact: D Blankenship; Telephone No.: 373-5456	Project Coordinator: TRENT, SJ	Price Code: 7N; Data Turnaround: 45 Days
Project Designation: 183N Backwash Discharge Pond -- Permit Monitoring	Sampling Location: 183N	SAF No.: B99-018	Air Quality:
Ice Chest No.: ERC 99-068	Field Logbook No.: NA; COA: 77BK27YA40	Method of Shipment: Fed EX	
Shipped To: Quanterra Incorporated	Offsite Property No.: A00152	Bill of Lading/Air Bill No.: 4235 7953-4994	

POSSIBLE SAMPLE HAZARDS/REMARKS: NONE

Special Handling and/or Storage

W03130

SAMPLE ANALYSIS

Preservation	None	None	Cool 4C	Cool 4C	Cool 4C	HNO3 to pH <2	HNO3 to pH <2	None	Cool 4C	HCl to pH <2 Cool 4C
Type of Container	P	P	P	P	P	P	P	P	aGs*	aGs*
No. of Container(s)	1	1	1	1	1	1	1	1	3	3
Volume	20mL	125mL	250mL	500mL	500mL	500mL	500mL	1000mL	40mL	40mL
	Activity Scan	pH - 150.1	Sulfate - 375.4	TDS - 160.1	TSS - 160.2	Arsenic - 7060 - (GFAA)	ICP Metals - 6010A (TAL)	Chlorine (Total residual) - 330.3	Acrylamide - 8316	VOA - 8240A (Append IX)

Sample No.	Matrix *	Sample Date	Sample Time	Activity Scan	pH - 150.1	Sulfate - 375.4	TDS - 160.1	TSS - 160.2	Arsenic - 7060 - (GFAA)	ICP Metals - 6010A (TAL)	Chlorine (Total residual) - 330.3	Acrylamide - 8316	VOA - 8240A (Append IX)
B0XY82	Water	4/5/00	0957	X	X	X	X	X	X	X	X	X	X
									pH=1	pH=1			

ALL SAMPLES 100% FULL

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By: [signature]	4/5/00 845	Received By: R. Thoren / R. Thoren	4.5.00/1435
Relinquished By: R. Thoren / R. Thoren	4.6.00/1430	Received By: FED EX	
Relinquished By		Received By	
Relinquished By		Received By	
Relinquished By		Received By	
Relinquished By		Received By	

SPECIAL INSTRUCTIONS

Sample originated in non-Rad Controlled area. <2000 pCi/g
No TA Required

Matrix *: S=Soil; SE=Sediment; SD=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By	Title	Date/Time
	[signature] STL	SAMPLE CONTROL SUPERVISOR	04-07-00 0910

FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

LOT #F0D080134

STL ST. LOUIS

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B99-018-36	Page 2 of 2
Collector: Johansen	Company Contact: D Blankenship	Telephone No.: 373-5456	Project Coordinator: TRENT, SJ	Price Code: 7N; Air Quality: --	Data Turnaround: 45 Days
Project Designation: 183N Backwash Discharge Pond -- Permit Monitoring	Sampling Location: 183N		SAF No.: B99-018	
Ice Chest No.: ERC 99-068	Field Logbook No.: NA	COA: 77BK27YA40	Method of Shipment: Fed EX	
Shipped To: Quanterra Incorporated	Offsite Property No.: A000152		Bill of Lading/Air Bill No.: 4235 7953-4994 FED EX	

POSSIBLE SAMPLE HAZARDS/REMARKS

NONE

Special Handling and/or Storage

Preservation	HCl to pH <2 Cool 4C										
Type of Container	aGs*										
No. of Container(s)	3										
Volume	40mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										

Sample No.	Matrix *	Sample Date	Sample Time										
B0XY82	Water	4/5/00	1057	X									

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By	Date/Time
Relinquished By: Marcus Johnson	4/5/00 1345	Received By: R. Thoren	4.5.00/1345
Relinquished By: R. Thoren	4.6.00/1430	Received By: FEDEX	
Relinquished By		Received By	
Relinquished By		Received By	
Relinquished By		Received By	
Relinquished By		Received By	

SPECIAL INSTRUCTIONS

Sample originated in non-Rad Controlled area. <2000 pCi/g. NO TA Required

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By: Marcus Johnson	Title: Sample Control Supervisor	Date/Time: 04-07-00 0910
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

HI-EE-011 (10/99)

Quanterra Environmental Services

000305

Lot No.: F0D080134
W03130

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: BECHTEL HANFORD
Date: 04-07-00 Time: 0910
Quote No: 33548
Initiated by: MSP
Shipper/No: FED EX 4235795 3-4994
RFA/COC Numbers: B99-018-36

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing/not tamper evident type (circle all that apply).
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Sample volume insufficient for analysis
11. ☐ Other (explain below) _____

☒ **No variances were noted during sample receipt.**
☒ **Cooler Temperature Upon Receipt in °C:** 2°

Temperature Variance Does Not Affect the Following Analyses: _____

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____
☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is". _____
☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: [signature] Date: 04-07-00
Project Management Review: [signature] Date: 4.10.00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

GC/MS Volatiles

Lot-Sample #...: F0D080134-001 Work Order #...: DAMHL101 Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00
Prep Date.....: 04/13/00 Analysis Date..: 04/13/00
Prep Batch #...: 0105156
Dilution Factor: 1 Method.....: SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	10	ug/L	1.6
Vinyl chloride	ND	10	ug/L	4.1
Bromomethane	ND	10	ug/L	2.0
Chloroethane	ND	10	ug/L	2.3
Acetone	ND	20	ug/L	6.9
1,1-Dichloroethene	ND	5.0	ug/L	2.2
Methylene chloride	ND	5.0	ug/L	1.8
Carbon disulfide	ND	5.0	ug/L	2.1
1,1-Dichloroethane	ND	5.0	ug/L	1.2
2-Butanone	ND	20	ug/L	6.8
1,2-Dichloroethene (total)	ND	5.0	ug/L	2.7
Chloroform	23	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.3
Carbon tetrachloride	ND	5.0	ug/L	1.3
1,2-Dichloroethane	ND	5.0	ug/L	1.6
Benzene	ND	5.0	ug/L	1.9
Trichloroethene	ND	5.0	ug/L	1.8
1,2-Dichloropropane	ND	5.0	ug/L	1.7
Bromodichloromethane	ND	5.0	ug/L	2.7
4-Methyl-2-pentanone	ND	20	ug/L	3.5
cis-1,3-Dichloropropene	ND	5.0	ug/L	2.0
Toluene	2.1 J	5.0	ug/L	1.6
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.5
1,1,2-Trichloroethane	ND	5.0	ug/L	3.6
2-Hexanone	ND	20	ug/L	4.6
Tetrachloroethene	ND	5.0	ug/L	2.7
Dibromochloromethane	ND	5.0	ug/L	3.2
Chlorobenzene	ND	5.0	ug/L	2.8
Ethylbenzene	ND	5.0	ug/L	2.4
Xylenes (total)	ND	10	ug/L	6.6
Styrene	ND	5.0	ug/L	3.0
Bromoform	ND	5.0	ug/L	3.1
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	3.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	82	(71 - 118)
Toluene-d8	108	(78 - 124)
Dibromofluoromethane	104	(77 - 138)

NOTE(S):

J Estimated result. Result is less than RL.

BECHTEL HANFORD, INC.

B0XY82

GC/MS Volatiles

Lot-Sample #: F0D080134-001 Work Order #: DAMHL101 Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAMHL102-MS **Matrix.....:** WATER
MS Lot-Sample #: F0D080134-001 DAMHL103-MSD
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00
Prep Date.....: 04/13/00 **Analysis Date..:** 04/13/00
Prep Batch #...: 0105156
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	50.2	ug/L	100		SW846 8260A
	ND	50.0	50.8	ug/L	102	1.3	SW846 8260A
Benzene	ND	50.0	51.6	ug/L	103		SW846 8260A
	ND	50.0	46.0	ug/L	92	12	SW846 8260A
Trichloroethene	ND	50.0	46.0	ug/L	92		SW846 8260A
	ND	50.0	45.6	ug/L	91	0.89	SW846 8260A
Toluene	2.1	50.0	52.0	ug/L	100		SW846 8260A
	2.1	50.0	50.9	ug/L	98	2.2	SW846 8260A
Chlorobenzene	ND	50.0	52.8	ug/L	106		SW846 8260A
	ND	50.0	52.2	ug/L	104	1.0	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	88	(71 - 118)
	87	(71 - 118)
Toluene-d8	104	(78 - 124)
	99	(78 - 124)
Dibromofluoromethane	117	(77 - 138)
	110	(77 - 138)

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 #...: F0D080134 **Work Order #...:** DAWR6101 **Matrix.....:** WATER
MB Lot-Sample #: F0D140000-156

Prep Date.....: 04/13/00
Analysis Date..: 04/13/00 **Prep Batch #...:** 0105156
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Acetone	ND	20	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
Carbon disulfide	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
2-Butanone	11 J	20	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
Bromodichloromethane	ND	5.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	20	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Dibromochloromethane	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Xylenes (total)	ND	10	ug/L	SW846 8260A
Styrene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	88	(71 - 118)
Toluene-d8	98	(78 - 124)
Dibromofluoromethane	100	(77 - 138)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 Work Order #...: DAWR6101 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 DATA REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAWR6102 **Matrix.....:** WATER
LCS Lot-Sample#: F0D140000-156
Prep Date.....: 04/13/00 **Analysis Date..:** 04/13/00
Prep Batch #...: 0105156
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	43.3	ug/L	87	SW846 8260A
Benzene	50.0	42.5	ug/L	85	SW846 8260A
Trichloroethene	50.0	43.6	ug/L	87	SW846 8260A
Toluene	50.0	51.6	ug/L	103	SW846 8260A
Chlorobenzene	50.0	48.4	ug/L	97	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	88	(71 - 118)
Toluene-d8	110	(78 - 124)
Dibromofluoromethane	100	(77 - 138)

NOTE(S):

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

Bold print denotes control parameters

BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

GC/MS Volatiles

Lot-Sample #...: F0D080134-001 Work Order #...: DAMHL12L Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00
Prep Date.....: 04/11/00 Analysis Date..: 04/11/00
Prep Batch #...: 0103158
Dilution Factor: 1 Method.....: SW846 8240A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	10	ug/L	2.7
Vinyl chloride	ND	10	ug/L	2.6
Bromomethane	ND	10	ug/L	2.0
Chloroethane	ND	10	ug/L	1.9
Acetone	ND	20	ug/L	1.3
1,1-Dichloroethene	ND	5.0	ug/L	1.4
Methylene chloride	ND	5.0	ug/L	1.5
Carbon disulfide	ND	5.0	ug/L	1.3
1,1-Dichloroethane	ND	5.0	ug/L	1.3
2-Butanone	ND	20	ug/L	2.2
1,2-Dichloroethene (total)	ND	5.0	ug/L	5.0
Chloroform	17	5.0	ug/L	1.7
1,1,1-Trichloroethane	ND	5.0	ug/L	5.0
Carbon tetrachloride	ND	5.0	ug/L	1.2
1,2-Dichloroethane	ND	5.0	ug/L	1.9
Benzene	ND	5.0	ug/L	1.6
Trichloroethene	ND	5.0	ug/L	1.3
1,2-Dichloropropane	ND	5.0	ug/L	2.2
Bromodichloromethane	1.2 J	5.0	ug/L	1.2
4-Methyl-2-pentanone	ND	20	ug/L	1.6
cis-1,3-Dichloropropene	ND	5.0	ug/L	1.3
Toluene	ND	5.0	ug/L	1.7
trans-1,3-Dichloropropene	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
2-Hexanone	ND	20	ug/L	1.7
Tetrachloroethene	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	5.0	ug/L	5.0
Chlorobenzene	ND	5.0	ug/L	2.7
Ethylbenzene	ND	5.0	ug/L	1.1
Xylenes (total)	ND	5.0	ug/L	1.2
Styrene	ND	5.0	ug/L	1.2
Bromoform	ND	5.0	ug/L	0.97
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.97
Acrolein	ND	100	ug/L	100
Acetonitrile	ND	100	ug/L	100
Iodomethane	ND	5.0	ug/L	5.0
Allyl chloride	ND	10	ug/L	10
2-Chloro-1,3-butadiene	ND	5.0	ug/L	5.0

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BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

GC/MS Volatiles

Lot-Sample #...: F0D080134-001 Work Order #...: DAMHL12L Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Propionitrile	ND	20	ug/L	20
Methacrylonitrile	ND	5.0	ug/L	5.0
Isobutanol	ND	200	ug/L	200
1,4-Dioxane	ND	500	ug/L	500
Methyl methacrylate	ND	5.0	ug/L	5.0
Dibromomethane	ND	5.0	ug/L	5.0
Ethyl methacrylate	ND	5.0	ug/L	5.0
1,2-Dibromoethane	ND	5.0	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	5.0
trans-1,4-Dichloro-2-butene	ND	5.0	ug/L	5.0
1,2,3-Trichloropropane	ND	5.0	ug/L	5.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	10
Dichlorodifluoromethane	ND	10	ug/L	10
Trichlorofluoromethane	ND	10	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(69 - 113)
Toluene-d8	95	(68 - 132)
1,2-Dichloroethane-d4	112	(72 - 147)

NOTE(S):

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAMHL12M-MS **Matrix.....:** WATER
MS Lot-Sample #: F0D080134-001 DAMHL12N-MSD
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00
Prep Date.....: 04/11/00 **Analysis Date..:** 04/11/00
Prep Batch #...: 0103158
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	ND	50.0	49.8	ug/L	100		SW846 8240A
	ND	50.0	49.1	ug/L	98	1.5	SW846 8240A
Chlorobenzene	ND	50.0	51.7	ug/L	103		SW846 8240A
	ND	50.0	52.0	ug/L	104	0.57	SW846 8240A
Benzene	ND	50.0	54.3	ug/L	109		SW846 8240A
	ND	50.0	55.4	ug/L	111	2.0	SW846 8240A
Trichloroethene	ND	50.0	50.4	ug/L	101		SW846 8240A
	ND	50.0	52.6	ug/L	105	4.2	SW846 8240A
1,1-Dichloroethene	ND	50.0	43.6	ug/L	87		SW846 8240A
	ND	50.0	56.2	ug/L	112 p	25	SW846 8240A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(69 - 113)
	90	(69 - 113)
Toluene-d8	97	(68 - 132)
	94	(68 - 132)
1,2-Dichloroethane-d4	105	(72 - 147)
	118	(72 - 147)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

BECHTEL HANFORD, INC.

B0XY82

GC/MS Volatiles

Lot-Sample #: F0D080134-001 Work Order #: DAMHL12L Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
UNKNOWN		7.8	M	23.16	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAQT1101 **Matrix.....:** WATER
MB Lot-Sample #: F0D120000-158

Prep Date.....: 04/11/00
Analysis Date..: 04/11/00 **Prep Batch #...:** 0103158
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/L	SW846 8240A
Acetonitrile	ND	100	ug/L	SW846 8240A
Acrolein	ND	100	ug/L	SW846 8240A
Benzene	ND	5.0	ug/L	SW846 8240A
Bromodichloromethane	ND	5.0	ug/L	SW846 8240A
Bromoform	ND	5.0	ug/L	SW846 8240A
Bromomethane	ND	10	ug/L	SW846 8240A
2-Butanone	3.2 J	20	ug/L	SW846 8240A
Carbon disulfide	ND	5.0	ug/L	SW846 8240A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8240A
Chlorobenzene	ND	5.0	ug/L	SW846 8240A
2-Chloro-1,3-butadiene	ND	5.0	ug/L	SW846 8240A
Dibromochloromethane	ND	5.0	ug/L	SW846 8240A
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	SW846 8240A
Chloroethane	ND	10	ug/L	SW846 8240A
Chloroform	ND	5.0	ug/L	SW846 8240A
Chloromethane	ND	10	ug/L	SW846 8240A
Allyl chloride	ND	10	ug/L	SW846 8240A
1,2-Dibromoethane	ND	5.0	ug/L	SW846 8240A
Dibromomethane	ND	5.0	ug/L	SW846 8240A
trans-1,4-Dichloro-2-butene	ND	5.0	ug/L	SW846 8240A
Dichlorodifluoromethane	ND	10	ug/L	SW846 8240A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8240A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8240A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8240A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8240A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8240A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8240A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8240A
1,4-Dioxane	ND	500	ug/L	SW846 8240A
Ethylbenzene	ND	5.0	ug/L	SW846 8240A
Ethyl methacrylate	ND	5.0	ug/L	SW846 8240A
Trichlorofluoromethane	ND	10	ug/L	SW846 8240A
2-Hexanone	ND	20	ug/L	SW846 8240A
Iodomethane	ND	5.0	ug/L	SW846 8240A
Isobutanol	ND	200	ug/L	SW846 8240A
Methacrylonitrile	ND	5.0	ug/L	SW846 8240A
Methylene chloride	ND	5.0	ug/L	SW846 8240A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAQT1101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methyl methacrylate	ND	5.0	ug/L	SW846 8240A
4-Methyl-2-pentanone	ND	20	ug/L	SW846 8240A
Propionitrile	ND	20	ug/L	SW846 8240A
Styrene	ND	5.0	ug/L	SW846 8240A
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8240A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8240A
Tetrachloroethene	ND	5.0	ug/L	SW846 8240A
Toluene	ND	5.0	ug/L	SW846 8240A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8240A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8240A
Trichloroethene	ND	5.0	ug/L	SW846 8240A
1,2,3-Trichloropropane	ND	5.0	ug/L	SW846 8240A
Vinyl chloride	ND	10	ug/L	SW846 8240A
Xylenes (total)	ND	5.0	ug/L	SW846 8240A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(69 - 113)
Toluene-d8	103	(68 - 132)
1,2-Dichloroethane-d4	108	(72 - 147)

NOTE(S):

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

J Estimated result. Result is less than RL.

BECHTEL HANFORD, INC.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F0D120000-158 B **Work Order #:** DAQT1101 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0D080134 **Work Order #...:** DAQT1102 **Matrix.....:** WATER
LCS Lot-Sample#: F0D120000-158
Prep Date.....: 04/11/00 **Analysis Date..:** 04/11/00
Prep Batch #...: 0103158
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**50.0**	**53.0**	**ug/L**	**106**	**SW846 8240A**
Trichloroethene	**50.0**	**49.8**	**ug/L**	**100**	**SW846 8240A**
1,1-Dichloroethene	**50.0**	**49.0**	**ug/L**	**98**	**SW846 8240A**
Toluene	**50.0**	**49.6**	**ug/L**	**99**	**SW846 8240A**
Chlorobenzene	**50.0**	**51.3**	**ug/L**	**103**	**SW846 8240A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(69 - 113)
Toluene-d8	99	(68 - 132)
1,2-Dichloroethane-d4	95	(72 - 147)

NOTE(S):

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

Bold print denotes control parameters

BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

HPLC

Lot-Sample #...: F0D080134-001 Work Order #...: DAMHL104 Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00
Prep Date.....: 04/17/00 Analysis Date..: 04/17/00
Prep Batch #...: 0108391
Dilution Factor: 1 Method.....: SWDFT 8316

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylamide	ND	100	ug/L	100

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: F0D080134 **Work Order #...:** DAMHL105-MS **Matrix.....:** WATER
MS Lot-Sample #: F0D080134-001 DAMHL106-MSD
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00
Prep Date.....: 04/17/00 **Analysis Date..:** 04/17/00
Prep Batch #...: 0108391
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acrylamide	**ND**	**1750**	**1600**	**ug/L**	**91**		**SWDFT 8316**
	ND	**1750**	**1600**	**ug/L**	**91**	**0.0**	**SWDFT 8316**

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 #...: F0D080134 Work Order #...: DC2C5101 Matrix.....: WATER
MB Lot-Sample #: F0D170000-391
Prep Date.....: 04/17/00
Analysis Date..: 04/17/00 Prep Batch #...: 0108391
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrylamide	ND	100	ug/L	SWDFT 8316

NOTE(S):

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

BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

TOTAL Metals

Lot-Sample #...: F0D080134-001 Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0122148						
Arsenic	ND	10.0	ug/L	SW846 7060	05/01-05/05/00	DAMHL121
		Dilution Factor: 1		MDL.....: 1.0		
Prep Batch #...: 0122155						
Aluminum	981	200	ug/L	SW846 6010B	05/01-05/04/00	DAMHL107
		Dilution Factor: 1		MDL.....: 26.5		
Antimony	ND	60.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10A
		Dilution Factor: 1		MDL.....: 19.7		
Barium	27.9 B	200	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10E
		Dilution Factor: 1		MDL.....: 0.90		
Beryllium	ND	5.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10H
		Dilution Factor: 1		MDL.....: 0.20		
Cadmium	ND	5.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10L
		Dilution Factor: 1		MDL.....: 2.0		
Calcium	23100	5000	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10P
		Dilution Factor: 1		MDL.....: 65.3		
Chromium	ND	10.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10T
		Dilution Factor: 1		MDL.....: 2.7		
Cobalt	ND	50.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL10W
		Dilution Factor: 1		MDL.....: 2.5		
Copper	ND	25.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL111
		Dilution Factor: 1		MDL.....: 4.0		
Iron	204	100	ug/L	SW846 6010B	05/01-05/04/00	DAMHL114
		Dilution Factor: 1		MDL.....: 30.3		
Magnesium	4180 B	5000	ug/L	SW846 6010B	05/01-05/04/00	DAMHL117
		Dilution Factor: 1		MDL.....: 101		
Manganese	4.4 B	15.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11A
		Dilution Factor: 1		MDL.....: 0.90		
Nickel	ND	40.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11E
		Dilution Factor: 1		MDL.....: 10.0		

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BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

TOTAL Metals

Lot-Sample #...: F0D080134-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11H
		Dilution Factor: 1		MDL.....: 1810		
Silver	ND	10.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11L
		Dilution Factor: 1		MDL.....: 8.0		
Sodium	2840 B	5000	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11P
		Dilution Factor: 1		MDL.....: 44.2		
Vanadium	ND	50.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11T
		Dilution Factor: 1		MDL.....: 4.7		
Zinc	7.5 B	20.0	ug/L	SW846 6010B	05/01-05/04/00	DAMHL11W
		Dilution Factor: 1		MDL.....: 4.2		

NOTE(S):

B Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0D080134 **Matrix.....:** WATER
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F0D080134-001 **Prep Batch #...:** 0122148									
Arsenic									
	ND	40.0	41.1	ug/L	103		SW846 7060	05/01-05/05/00	DAMHL122
	ND	40.0	42.0	ug/L	105	2.3	SW846 7060	05/01-05/05/00	DAMHL123
				Dilution Factor: 1					
MS Lot-Sample #: F0D080134-001 **Prep Batch #...:** 0122155									
Aluminum									
	981	2000	2990	ug/L	101		SW846 6010B	05/01-05/04/00	DAMHL108
	981	2000	3010	ug/L	101	0.41	SW846 6010B	05/01-05/04/00	DAMHL109
				Dilution Factor: 1					
Antimony									
	ND	500	503	ug/L	101		SW846 6010B	05/01-05/04/00	DAMHL10C
	ND	500	504	ug/L	101	0.29	SW846 6010B	05/01-05/04/00	DAMHL10D
				Dilution Factor: 1					
Barium									
	27.9	2000	2200	ug/L	109		SW846 6010B	05/01-05/04/00	DAMHL10F
	27.9	2000	2210	ug/L	109	0.15	SW846 6010B	05/01-05/04/00	DAMHL10G
				Dilution Factor: 1					
Beryllium									
	ND	50.0	55.5	ug/L	111		SW846 6010B	05/01-05/04/00	DAMHL10J
	ND	50.0	55.7	ug/L	111	0.25	SW846 6010B	05/01-05/04/00	DAMHL10K
				Dilution Factor: 1					
Cadmium									
	ND	50.0	51.2	ug/L	102		SW846 6010B	05/01-05/04/00	DAMHL10M
	ND	50.0	51.7	ug/L	103	0.99	SW846 6010B	05/01-05/04/00	DAMHL10N
				Dilution Factor: 1					
Calcium									
	23100	50000	74100	ug/L	102		SW846 6010B	05/01-05/04/00	DAMHL10Q
	23100	50000	74500	ug/L	103	0.63	SW846 6010B	05/01-05/04/00	DAMHL10R
				Dilution Factor: 1					
Chromium									
	ND	200	207	ug/L	104		SW846 6010B	05/01-05/04/00	DAMHL10U
	ND	200	209	ug/L	104	0.84	SW846 6010B	05/01-05/04/00	DAMHL10V
				Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0D080134 **Matrix.....:** WATER
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt									
	ND	500	520	ug/L	104		SW846 6010B	05/01-05/04/00	DAMHL10X
	ND	500	522	ug/L	104	0.38	SW846 6010B	05/01-05/04/00	DAMHL110
				Dilution Factor: 1					
Copper									
	ND	250	286	ug/L	114		SW846 6010B	05/01-05/04/00	DAMHL112
	ND	250	285	ug/L	114	0.43	SW846 6010B	05/01-05/04/00	DAMHL113
				Dilution Factor: 1					
Iron									
	204	1000	1310	ug/L	111		SW846 6010B	05/01-05/04/00	DAMHL115
	204	1000	1310	ug/L	111	0.33	SW846 6010B	05/01-05/04/00	DAMHL116
				Dilution Factor: 1					
Magnesium									
	4180	50000	54700	ug/L	101		SW846 6010B	05/01-05/04/00	DAMHL118
	4180	50000	55000	ug/L	102	0.64	SW846 6010B	05/01-05/04/00	DAMHL119
				Dilution Factor: 1					
Manganese									
	4.4	500	552	ug/L	109		SW846 6010B	05/01-05/04/00	DAMHL11C
	4.4	500	608	ug/L	121	9.7	SW846 6010B	05/01-05/04/00	DAMHL11D
				Dilution Factor: 1					
Nickel									
	ND	500	508	ug/L	102		SW846 6010B	05/01-05/04/00	DAMHL11F
	ND	500	511	ug/L	102	0.64	SW846 6010B	05/01-05/04/00	DAMHL11G
				Dilution Factor: 1					
Potassium									
	ND	50000	50700	ug/L	101		SW846 6010B	05/01-05/04/00	DAMHL11J
	ND	50000	50800	ug/L	102	0.18	SW846 6010B	05/01-05/04/00	DAMHL11K
				Dilution Factor: 1					
Silver									
	ND	50.0	54.7	ug/L	109		SW846 6010B	05/01-05/04/00	DAMHL11M
	ND	50.0	54.9	ug/L	110	0.47	SW846 6010B	05/01-05/04/00	DAMHL11N
				Dilution Factor: 1					
Sodium									
	2840	50000	53900	ug/L	102		SW846 6010B	05/01-05/04/00	DAMHL11Q
	2840	50000	54200	ug/L	103	0.53	SW846 6010B	05/01-05/04/00	DAMHL11R
				Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0D080134 **Matrix.....:** WATER
Date Sampled...: 04/05/00 **Date Received..:** 04/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	524	ug/L	105		SW846 6010B	05/01-05/04/00	DAMHL11U
	ND	500	525	ug/L	105	0.28	SW846 6010B	05/01-05/04/00	DAMHL11V
				Dilution Factor: 1					
Zinc									
	7.5	500	507	ug/L	100		SW846 6010B	05/01-05/04/00	DAMHL11X
	7.5	500	511	ug/L	101	0.71	SW846 6010B	05/01-05/04/00	DAMHL120
				Dilution Factor: 1					

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F0D080134 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F0E010000-148 Prep Batch #...: 0122148						
Arsenic	ND	10.0	ug/L	SW846 7060	05/01-05/05/00	DCKJL10L
		Dilution Factor: 1				
MB Lot-Sample #: F0E010000-155 Prep Batch #...: 0122155						
Aluminum	ND	200	ug/L	SW846 6010B	05/01-05/04/00	DCKKE108
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE101
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	05/01-05/04/00	DCKKE102
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE103
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE104
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	05/01-05/04/00	DCKKE105
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE106
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE107
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10H
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10J
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10K
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE109
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10A
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F0D080134 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10C
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10D
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10E
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10F
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	05/01-05/04/00	DCKKE10G
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: F0D080134 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	1000	1030	ug/L	103		SW846 6010B	05/01-05/04/00	0122155
	1000	1010	ug/L	101	2.2	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Antimony	1000	1060	ug/L	106		SW846 6010B	05/01-05/04/00	0122155
	1000	1040	ug/L	104	1.5	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Barium	1000	1090	ug/L	109		SW846 6010B	05/01-05/04/00	0122155
	1000	1070	ug/L	107	2.0	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Beryllium	1000	1110	ug/L	111		SW846 6010B	05/01-05/04/00	0122155
	1000	1090	ug/L	109	2.0	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Cadmium	1000	1060	ug/L	106		SW846 6010B	05/01-05/04/00	0122155
	1000	1050	ug/L	105	1.4	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Calcium	20000	20900	ug/L	104		SW846 6010B	05/01-05/04/00	0122155
	20000	20500	ug/L	103	1.9	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Chromium	1000	1040	ug/L	104		SW846 6010B	05/01-05/04/00	0122155
	1000	1020	ug/L	102	1.8	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Cobalt	1000	1040	ug/L	104		SW846 6010B	05/01-05/04/00	0122155
	1000	1020	ug/L	102	1.9	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Copper	1000	1090	ug/L	109		SW846 6010B	05/01-05/04/00	0122155
	1000	1070	ug/L	107	2.0	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Iron	1000	1130	ug/L	113		SW846 6010B	05/01-05/04/00	0122155
	1000	1170	ug/L	117	3.6	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: F0D080134 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Magnesium	20000	20500	ug/L	103		SW846 6010B	05/01-05/04/00	0122155
	20000	20200	ug/L	101	1.8	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Manganese	1000	1090	ug/L	108		SW846 6010B	05/01-05/04/00	0122155
	1000	1070	ug/L	107	1.8	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Nickel	1000	1050	ug/L	105		SW846 6010B	05/01-05/04/00	0122155
	1000	1030	ug/L	103	1.6	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Potassium	20000	20000	ug/L	100		SW846 6010B	05/01-05/04/00	0122155
	20000	20100	ug/L	100	0.05	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Silver	250	246	ug/L	98		SW846 6010B	05/01-05/04/00	0122155
	250	244	ug/L	97	0.74	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Sodium	20000	20300	ug/L	102		SW846 6010B	05/01-05/04/00	0122155
	20000	19800	ug/L	99	2.6	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Vanadium	1000	1070	ug/L	107		SW846 6010B	05/01-05/04/00	0122155
	1000	1050	ug/L	105	1.6	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					
Zinc	1000	1030	ug/L	103		SW846 6010B	05/01-05/04/00	0122155
	1000	1010	ug/L	101	1.7	SW846 6010B	05/01-05/04/00	0122155
			Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0D080134 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F0E010000-148 Prep Batch #...: 0122148							
Arsenic	40.0	42.1	ug/L	105	SW846 7060	05/01-05/05/00	DCKJL118

Dilution Factor: 1

NOTE(S):

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

BECHTEL HANFORD, INC.

Client Sample ID: B0XY82

General Chemistry

Lot-Sample #...: F0D080134-001 Work Order #...: DAMHL Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.5		No Units	MCAWW 150.1	04/24/00	0115385
		Dilution Factor: 1		MDL.....: 0.010		
Sulfate	32.5	5.0	mg/L	MCAWW 375.4	05/03/00	0124364
		Dilution Factor: 1		MDL.....: 0.90		
Total Dissolved Solids	97.0	5.0	mg/L	MCAWW 160.1	04/10-04/12/00	0101447
		Dilution Factor: 1		MDL.....: 4.2		
Total Residual Chlorine	0.10 <	0.10	mg/L	MCAWW 330.3	04/20/00	0111370
		Dilution Factor: 1		MDL.....: 0.089		
Total Suspended Solids	6.0	1.0	mg/L	MCAWW 160.2	04/10-04/11/00	0101446
		Dilution Factor: 1		MDL.....:		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080134 Work Order #...: DAMHL-SMP DAMHL-DUP Matrix.....: WATER

Date Sampled...: 04/05/00 Date Received..: 04/06/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	F0D080134-001	
	7.5	7.6	No Units	0.66	(0-20)	MCAWW 150.1	04/24/00	0115385
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	F0D080134-001	
	97.0	93.0	mg/L	4.2	(0-20)	MCAWW 160.1	04/10-04/12/00	0101447
			Dilution Factor: 1					
Total Residual Chlorine						SD Lot-Sample #:	F0D080134-001	
	0.10 <	0.10 <	mg/L	0.0	(0-20)	MCAWW 330.3	04/20/00	0111370
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F0D080134-001	
	32.5	32.3	mg/L	0.74	(0-20)	MCAWW 375.4	05/03/00	0124364
			Dilution Factor: 1					
Total Suspended Solids						SD Lot-Sample #:	F0D080134-001	
	6.0	7.0	mg/L	15	(0-20)	MCAWW 160.2	04/10-04/11/00	0101446
			Dilution Factor: 1					

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F0D080134 Matrix.....: WATER
Date Sampled...: 04/05/00 Date Received..: 04/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #...:		DAMHL12F		MS Lot-Sample #: F0D080134-001	
	32.5	25.0	57.6	mg/L	100	MCAWW 375.4	05/03/00	0124364
			Dilution Factor: 1					

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F0D080134 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: DCCD4101		MB Lot-Sample #:	F0D240000-385	
	6.0		No Units	MCAWW 150.1	04/24/00	0115385
		Dilution Factor: 1				
Sulfate		Work Order #: DCPR2101		MB Lot-Sample #:	F0E030000-364	
	ND	5.0	mg/L	MCAWW 375.4	05/03/00	0124364
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: DAT72101		MB Lot-Sample #:	F0D100000-447	
	5.0 <	5.0	mg/L	MCAWW 160.1	04/10-04/12/00	0101447
		Dilution Factor: 1				
Total Residual Chlorine		Work Order #: DC821101		MB Lot-Sample #:	F0D200000-370	
	0.10 <	0.10	mg/L	MCAWW 330.3	04/20/00	0111370
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: DAQF6101		MB Lot-Sample #:	F0D100000-446	
	1.0 <	1.0	mg/L	MCAWW 160.2	04/10-04/11/00	0101446
		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 #...: F0D080134 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #: DCPR2102		LCS Lot-Sample#: F0E030000-364		
	30.0	31.3	mg/L	104	MCAWW 375.4	05/03/00	0124364
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: DAT72102		LCS Lot-Sample#: F0D100000-447		
	500	478	mg/L	96	MCAWW 160.1	04/10-04/12/00	0101447
			Dilution Factor: 1				
Total Residual Chlorine			Work Order #: DC821102		LCS Lot-Sample#: F0D200000-370		
	7.13	7.30	mg/L	102	MCAWW 330.3	04/20/00	0111370
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: DAQF6102		LCS Lot-Sample#: F0D100000-446		
	500	444	mg/L	89	MCAWW 160.2	04/10-04/11/00	0101446
			Dilution Factor: 1				

NOTE(S):

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