

GROUND WATER INVESTIGATION



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

May 22, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051-3136

Mr. Samuel Small
Amerada Hess Corporation
P.O. Box 840
Seminole, Texas 79360

RE: W.P. BYRD TANK BATTERY

Dear Mr. Small:

On March 21, 2000 the New Mexico Oil Conservation Division (OCD) sampled a water well at the J.R. Byrd residence in Monument, New Mexico in response to Mr. Byrd's complaint that his ground water is contaminated. The results of these samples (enclosed) show that the water is contaminated with benzene, total dissolved solids (TDS) and chlorides in excess of the New Mexico Water Quality Control Commission (WQCC) ground water standards. A further inspection of the area showed that Amerada Hess Corporation (AHC) has a tank battery directly upgradient of the well called the W.P. Byrd Lease and located in Unit G, Section 12, Township 20 South, Range 36 East, Lea County, New Mexico. During the inspection the OCD observed evidence of past spills at the tank battery. In addition, Mr. Byrd stated that there were formerly 2 unlined pits located at the tank battery.

In light of this information, the OCD requires that AHC submit a work plan to the OCD to investigate the extent of contamination related to AHC's W.P. Byrd Lease Tank Battery. Please submit the work plan to the OCD Santa Fe Office by June 30, 2000 with a copy provided to the OCD Hobbs District Office. If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

enclosure

xc: Chris Williams, OCD Hobbs District Office.

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Bill Olson
OCD
2040 S. Pacheco
Santa Fe, NM 87505

RECEIVED

APR 23 2000

Report Date: 4/11/00

Project Number: N/A
Project Name: N/A
Project Location: Red Byrd Ranch

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Order ID Number: A00032308

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
143094	0003211115(Raymond Byrd)	Water	3/21/00	11:15	3/23/00
143095	0003211415(Red Byrd #1)	Water	3/21/00	14:15	3/23/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Cation-Anion Balance Sheet

DATE: 4/11/00

MS

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate ppm	Fluoride ppm	TDS ppm	EC µMHOs/cm
143094	121	25	70	2.8	404	10	100	0	1.8	650	1000
143095	3363	1454	6129	115	78	410	19000	0	3.1	42000	54000

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate in meq/L	Fluoride in meq/L	Cations in meq/L	Anions in meq/L	Percentage Error
143094	6.04	2.06	3.05	0.07	8.08	0.21	2.82	0	0.084224	11.21	11.19	0.163801275
143095	167.81	119.65	266.61	2.94	1.56	8.54	535.99	0	0.163184	557.02	546.25	1.951873174

EC/Cation	EC/Anion
143094 1121.1774	1119.3424
143095 55701.656	54624.9384

TDS/EC	TDS/Cat	TDS/Anion
0.65	0.58	0.58
0.78	0.75	0.77

needs to be 0.55-0.77
needs to be 0.55-0.77

range 900 to 1100
range 48600 to 59400

Analytical Results Report

Sample Number: 143094

Description: 0003211115(Raymond Byrd)

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
8260 (µg/L)									
Bromochloromethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dichlorodifluoromethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chloromethane (methyl chloride)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Vinyl Chloride	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromomethane (methyl bromide)	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
Chloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Trichlorofluoromethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Acetone	<50.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
Iodomethane (methyl iodide)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Carbon Disulfide	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Acrylonitrile	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2-Butanone (MEK)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
4-methyl-2-pentanone (MIBK)	<50.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
2-hexanone	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans 1,4-Dichloro-2-butene	<50.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
1,1-Dichloroethene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Methylene chloride	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
MTBE	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans-1,2-Dichloroethene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1-Dichloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
cis-1,2-dichloroethene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2,2-Dichloropropane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dichloroethane (EDC)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chloroform	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,1-Trichloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1-Dichloropropene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Benzene	1023.25	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Carbon Tetrachloride	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dichloropropane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Trichloroethene (TCE)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dibromomethane (methylene bromide)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromodichloromethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2-Chloroethyl vinyl ether	<50.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
cis-1,3-Dichloropropene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans-1,3-Dichloropropene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Toluene	46.70	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,2-Trichloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,3-Dichloropropane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dibromochloromethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dibromoethane (EDB)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Tetrachloroethene (PCE)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chlorobenzene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,1,2-Tetrachloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Ethylbenzene	86.90	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
m,p-Xylene	108.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromoform	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Styrene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
o-Xylene	38.05	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2

N/A	N/A						Red Byrd Ranch			
1,1,2,2-Tetrachloroethane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
2-Chlorotoluene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,2,3-Trichloropropane	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
Isopropylbenzene	65.65	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
Bromobenzene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
n-Propylbenzene	29.75	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,3,5-Trimethylbenzene	16.05	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
tert-Butylbenzene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,2,4-Trimethylbenzene	232.25	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
sec-Butylbenzene	12.80	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,3-Dichlorobenzene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
p-Isopropyltoluene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
4-Chlorotoluene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,2-Dichlorobenzene (ortho)	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
n-Butylbenzene	<10.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
1,2-Dibromo-3-chloropropane	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5	
1,2,3-Trichlorobenzene	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5	
1,2,4-Trichlorobenzene	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5	
Naphthalene	27.50	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2	
Hexachlorobutadiene	<25.00	5	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5	
Surrogate (µg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #		
Dibromofluoromethane	53.96	1	50	108	72 - 128	JG	PB01495	QC01783		
Toluene-d8	49.23	1	50	98	91 - 107	JG	PB01495	QC01783		
4-Bromofluorobenzene	51.47	1	50	103	74 - 106	JG	PB01495	QC01783		
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity	<1.0	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1	
Carbonate Alkalinity	<1.0	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1	
Bicarbonate Alkalinity	404	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1	
Total Alkalinity	404	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1	
Conductivity (µMHOS/cm)										
Specific Conductance	1000	1	SM 2510B	3/28/00	3/28/00	JS	PB01472	QC01752		
Dissolved Metals (mg/L)										
Dissolved Calcium	121	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5	
Dissolved Magnesium	25	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5	
Dissolved Potassium	2.8	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5	
Dissolved Sodium	70	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5	
Ion Chromatography (IC) (mg/L)										
CL	100	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.5	
Fluoride	1.6	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.2	
Nitrate-N	<1.0	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.2	
Sulfate	10	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.5	
pH (s.u.)										
pH	* 7.2	1	E 150.1	3/23/00	3/23/00	RS	PB01465	QC01744	1	
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids	650	1	E 160.1	3/23/00	3/24/00	JS	PB01426	QC01693	10	

N/A

N/A

Red Byrd Ranch

Sample Number: 143095

Description: 0003211415(Red Byrd #1)

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
8260 (µg/L)									
Bromochloromethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dichlorodifluoromethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chloromethane (methyl chloride)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Vinyl Chloride	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromomethane (methyl bromide)	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
Chloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Trichlorofluoromethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Acetone	<10.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
Iodomethane (methyl iodide)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Carbon Disulfide	10.16	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Acrylonitrile	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2-Butanone (MEK)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
4-methyl-2-pentanone (MIBK)	<10.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
2-hexanone	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans 1,4-Dichloro-2-butene	<10.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
1,1-Dichloroethene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Methylene chloride	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
MTBE	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans-1,2-Dichloroethene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1-Dichloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
cis-1,2-dichloroethene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2,2-Dichloropropane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dichloroethane (EDC)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chloroform	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,1-Trichloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1-Dichloropropene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Benzene	38.57	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Carbon Tetrachloride	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dichloropropane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Trichloroethene (TCE)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dibromomethane (methylene bromide)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromodichloromethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2-Chloroethyl vinyl ether	<10.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	10
cis-1,3-Dichloropropene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
trans-1,3-Dichloropropene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Toluene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,2-Trichloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,3-Dichloropropane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Dibromochloromethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dibromoethane (EDB)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Tetrachloroethene (PCE)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Chlorobenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,1,2-Tetrachloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Ethylbenzene	4.47	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
m,p-Xylene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromoform	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Styrene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
o-Xylene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,1,2,2-Tetrachloroethane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
2-Chlorotoluene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2,3-Trichloropropane	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2

N/A	N/A		Red Byrd Ranch						
Isopropylbenzene	2.05	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Bromobenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
n-Propylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,3,5-Trimethylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
tert-Butylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2,4-Trimethylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,4-Dichlorobenzene (para)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
sec-Butylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,3-Dichlorobenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
p-Isopropyltoluene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
4-Chlorotoluene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dichlorobenzene (ortho)	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
n-Butylbenzene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
1,2-Dibromo-3-chloropropane	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
1,2,3-Trichlorobenzene	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
1,2,4-Trichlorobenzene	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
Naphthalene	<2.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	2
Hexachlorobutadiene	<5.00	1	S 8260B	3/29/00	3/29/00	JG	PB01495	QC01783	5
Surrogate (µg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
Dibromofluoromethane	53.29	1	50	107	72 - 128	JG	PB01495	QC01783	
Toluene-d8	49.66	1	50	99	91 - 107	JG	PB01495	QC01783	
4-Bromofluorobenzene	49.60	1	50	99	74 - 106	JG	PB01495	QC01783	
Alkalinity (mg/L as CaCo3)									
Hydroxide Alkalinity	<1.0	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1
Carbonate Alkalinity	<1.0	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1
Bicarbonate Alkalinity	78	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1
Total Alkalinity	78	1	E 310.1	3/30/00	3/30/00	JS	PB01502	QC01789	1
Conductivity (uMHOS/cm)									
Specific Conductance	54000	1	SM 2510B	3/28/00	3/28/00	JS	PB01472	QC01752	
Dissolved Metals (mg/L)									
Dissolved Calcium	3363	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5
Dissolved Magnesium	1454	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5
Dissolved Potassium	115	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5
Dissolved Sodium	6129	1	E 200.7	3/24/00	4/7/00	RR	PB01441	QC01712	0.5
Ion Chromatography (IC) (mg/L)									
CL	19,000	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.5
Fluoride	3.1	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.2
Nitrate-N	<1.0	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.2
Sulfate	410	1	E 300.0	3/23/00	3/23/00	JS	PB01428	QC01692	0.5
pH (s.u.)									
pH	* 6.7	1	E 150.1	3/23/00	3/23/00	RS	PB01465	QC01744	1
* pH - Out of holding time.									
TDS (mg/L)									
Total Dissolved Solids	42,000	1	E 160.1	3/23/00	3/24/00	JS	PB01426	QC01693	10

Quality Control Report

Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Bromochloromethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Dichlorodifluoromethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Chloromethane (methyl chloride) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Vinyl Chloride (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Bromomethane (methyl bromide) (µg/L)		<5.00	5	3/29/00	PB01495	QC01783
Chloroethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Trichlorofluoromethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Acetone (µg/L)		<10.00	10	3/29/00	PB01495	QC01783
Iodomethane (methyl iodide) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Carbon Disulfide (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Acrylonitrile (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
2-Butanone (MEK) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
4-methyl-2-pentanone (MIBK) (µg/L)		<10.00	10	3/29/00	PB01495	QC01783
2-hexanone (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
trans 1,4-Dichloro-2-butene (µg/L)		<10.00	10	3/29/00	PB01495	QC01783
1,1-Dichloroethene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Methylene chloride (µg/L)		<5.00	5	3/29/00	PB01495	QC01783
MTBE (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
trans-1,2-Dichloroethene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,1-Dichloroethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
cis-1,2-dichloroethene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
2,2-Dichloropropane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,2-Dichloroethane (EDC) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Chloroform (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,1,1-Trichloroethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,1-Dichloropropene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Benzene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Carbon Tetrachloride (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,2-Dichloropropane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Trichloroethene (TCE) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Dibromomethane (methylene bromide) (µg)		<2.00	2	3/29/00	PB01495	QC01783
Bromodichloromethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
2-Chloroethyl vinyl ether (µg/L)		<10.00	10	3/29/00	PB01495	QC01783
cis-1,3-Dichloropropene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
trans-1,3-Dichloropropene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Toluene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,1,2-Trichloroethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,3-Dichloropropane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Dibromochloromethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,2-Dibromoethane (EDB) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Tetrachloroethene (PCE) (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Chlorobenzene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
1,1,1,2-Tetrachloroethane (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
Ethylbenzene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783
m,p-Xylene (µg/L)		<2.00	2	3/29/00	PB01495	QC01783

N/A

N/A

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Bromoform (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
Styrene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
o-Xylene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,1,2,2-Tetrachloroethane (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
2-Chlorotoluene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,2,3-Trichloropropane (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
Isopropylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
Bromobenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
n-Propylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,3,5-Trimethylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
tert-Butylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,2,4-Trimethylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,4-Dichlorobenzene (para) (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
sec-Butylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,3-Dichlorobenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
p-Isopropyltoluene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
4-Chlorotoluene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,2-Dichlorobenzene (ortho) (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
n-Butylbenzene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
1,2-Dibromo-3-chloropropane (µg/L)	<5.00	5	3/29/00	PB01495	QC01783
1,2,3-Trichlorobenzene (µg/L)	<5.00	5	3/29/00	PB01495	QC01783
1,2,4-Trichlorobenzene (µg/L)	<5.00	5	3/29/00	PB01495	QC01783
Naphthalene (µg/L)	<2.00	2	3/29/00	PB01495	QC01783
Hexachlorobutadiene (µg/L)	<5.00	5	3/29/00	PB01495	QC01783
Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
Dibromofluoromethane (µg/L)	49.09	50	98	72 - 128	QC01783
Toluene-d8 (µg/L)	49.60	50	99	91 - 107	QC01783
4-Bromofluorobenzene (µg/L)	50.68	50	101	74 - 106	QC01783

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCO ₃)		<1.0	1	3/30/00	PB01502	QC01789
Carbonate Alkalinity (mg/L as CaCO ₃)		<1.0	1	3/30/00	PB01502	QC01789
Bicarbonate Alkalinity (mg/L as CaCO ₃)		<4.0	1	3/30/00	PB01502	QC01789
Total Alkalinity (mg/L as CaCO ₃)		<4.0	1	3/30/00	PB01502	QC01789

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (µMHOS/cm)		7.4		3/28/00	PB01472	QC01752

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Dissolved Calcium (mg/L)		<.50	0.5	4/7/00	PB01441	QC01712
Dissolved Magnesium (mg/L)		<.50	0.5	4/7/00	PB01441	QC01712
Dissolved Potassium (mg/L)		<.50	0.5	4/7/00	PB01441	QC01712
Dissolved Sodium (mg/L)		<.50	0.5	4/7/00	PB01441	QC01712

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N/A

N/A

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Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	3/23/00	PB01428	QC01692
Fluoride (mg/L)		<0.2	0.2	3/23/00	PB01428	QC01692
Nitrate-N (mg/L)		<0.2	0.2	3/23/00	PB01428	QC01692
Sulfate (mg/L)		<0.5	0.5	3/23/00	PB01428	QC01692

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	3/24/00	PB01426	QC01693

Quality Control Report

Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	710-	1	625	1296.69	94		80 - 120	-	QC01692
MS	Fluoride (mg/L)	1.7	1	125	127.36	101		80 - 120	-	QC01692
MS	Nitrate-N (mg/L)	6.4	1	250	252.69	99		80 - 120	-	QC01692
MS	Sulfate (mg/L)	1300	1	625	1944.29	103		80 - 120	-	QC01692
MSD	CL (mg/L)	710	1	625	1296.55	94	0	-	0 - 20	QC01692
MSD	Fluoride (mg/L)	1.7	1	125	128.99	102	1	-	0 - 20	QC01692
MSD	Nitrate-N (mg/L)	6.4	1	250	253.51	99	0	-	0 - 20	QC01692
MSD	Sulfate (mg/L)	1300	1	625	1955.56	105	2	-	0 - 20	QC01692

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Dissolved Calcium (mg/L)	89	1	1000	1178	109		75 - 125	-	QC01712
MS	Dissolved Magnesium (mg/L)	22	1	1000	1062	104		75 - 125	-	QC01712
MS	Dissolved Potassium (mg/L)	1.4	1	1000	947	95		75 - 125	-	QC01712
MS	Dissolved Sodium (mg/L)	25	1	1000	1003	98		75 - 125	-	QC01712
MSD	Dissolved Calcium (mg/L)	89	1	1000	1161	107	2	-	0 - 20	QC01712
MSD	Dissolved Magnesium (mg/L)	22	1	1000	1050	103	1	-	0 - 20	QC01712
MSD	Dissolved Potassium (mg/L)	1.4	1	1000	978	98	3	-	0 - 20	QC01712
MSD	Dissolved Sodium (mg/L)	25	1	1000	1001	98	0	-	0 - 20	QC01712

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	1,1-Dichloroethene (ug/L)		1	100	120	120		79 - 129	-	QC01783
MS	1,1-Dichloroethene (ug/L)		1	100	120	120		80 - 120	-	QC01783
MS	Benzene (ug/L)	<2.00	1	100	106	106		77 - 130	-	QC01783
MS	Trichloroethene (TCE) (ug/L)		1	100	107	107		83 - 108	-	QC01783
MS	Toluene (ug/L)	4.09	1	100	108	108		85 - 114	-	QC01783
MS	Chlorobenzene (ug/L)		1	100	104	104		87 - 114	-	QC01783
Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.		% Rec. Limit	Prep Batch #	QC Batch #
MS	Dibromofluoromethane (ug/L)	48.64	1	50	JG	97		72 - 128	PB01495	QC01783
MS	Toluene-d8 (ug/L)	48.92	1	50	JG	98		91 - 107	PB01495	QC01783
MS	4-Bromofluorobenzene (ug/L)	49.91	1	50	JG	100		74 - 106	PB01495	QC01783
MSD	1,1-Dichloroethene (ug/L)		1	100	124	124	3	-	0 - 20	QC01783
MSD	1,1-Dichloroethene (ug/L)		1	100	124	124	3	-	0 - 20	QC01783
MSD	Benzene (ug/L)	<2.00	1	100	108	108	2	-	0 - 20	QC01783
MSD	Trichloroethene (TCE) (ug/L)		1	100	109	109	2	-	0 - 20	QC01783
MSD	Toluene (ug/L)	4.09	1	100	110	110	2	-	0 - 20	QC01783

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N/A

N/A

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MSD	Chlorobenzene (ug/L)		1	100	105	105	1	-	0 - 20	QC01783
				Spike		%		% Rec.	Prep	QC
Standard	Surrogate	Result	Dil.	Amount	Analyst	Rec.		Limit	Batch #	Batch #
MSD	Dibromofluoromethane (ug/L)	50.38	1	50	JG	101		72 - 128	PB01495	QC01783
MSD	Toluene-d8 (ug/L)	49.27	1	50	JG	99		91 - 107	PB01495	QC01783
MSD	4-Bromofluorobenzene (ug/L)	49.52	1	50	JG	99		74 - 106	PB01495	QC01783

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC01789
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC01789
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		58	54	1	7	0 - 20	QC01789
Duplicate	Total Alkalinity (mg/L as CaCo3)		58	54	1	7	0 - 20	QC01789

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		412472	370000	1	11	0 - 20	QC01752

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.2	7.1	1	1	0 - 20	QC01744

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		3318	3340	1	1	0 - 20	QC01693

Quality Control Report

Lab Control Spikes and Duplicate Spike

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS 1,1-Dichloroethene (ug/L)	<2.00	1	100	121	121		80 - 120	-	QC01783
LCS Benzene (ug/L)	<2.00	1	100	105	105		77 - 130	-	QC01783
LCS Trichloroethene (TCE) (ug/L)	<2.00	1	100	107	107		83 - 108	-	QC01783
LCS Toluene (ug/L)	<2.00	1	100	106	106		85 - 114	-	QC01783
LCS Chlorobenzene (ug/L)	<2.00	1	100	103	103		87 - 114	-	QC01783
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS Dibromofluoromethane (µg/L)		1	50	52.76	106		72 - 128		QC01783
LCS Toluene-d8 (µg/L)		1	50	48.56	97		91 - 107		QC01783
LCS 4-Bromofluorobenzene (µg/L)		1	50	50.03	100		74 - 106		QC01783
LCSD 1,1-Dichloroethene (ug/L)	<2.00	1	100	124	124	2	-	0 - 20	QC01783
LCSD 1,1-Dichloroethene (ug/L)	<2.00	1	100	124	124	2	-	0 - 20	QC01783
LCSD Benzene (ug/L)	<2.00	1	100	109	109	4	-	0 - 20	QC01783
LCSD Trichloroethene (TCE) (ug/L)	<2.00	1	100	107	107	0	-	0 - 20	QC01783
LCSD Toluene (ug/L)	<2.00	1	100	107	107	1	-	0 - 20	QC01783
LCSD Chlorobenzene (ug/L)	<2.00	1	100	106	106	3	-	0 - 20	QC01783
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCSD Dibromofluoromethane (µg/L)		1	50	53.79	108		72 - 128		QC01783
LCSD Toluene-d8 (µg/L)		1	50	49.16	98		91 - 107		QC01783
LCSD 4-Bromofluorobenzene (µg/L)		1	50	49.64	99		74 - 106		QC01783

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Dissolved Calcium (mg/L)	<.50	1	100	106.9	107		75 - 125	-	QC01712
LCS Dissolved Magnesium (mg/L)	<.50	1	100	109.3	109		75 - 125	-	QC01712
LCS Dissolved Potassium (mg/L)	<.50	1	100	103.6	104		75 - 125	-	QC01712
LCS Dissolved Sodium (mg/L)	<.50	1	100	99.8	100		75 - 125	-	QC01712
LCSD Dissolved Calcium (mg/L)	<.50	1	100	106.4	106	0	-	0 - 20	QC01712
LCSD Dissolved Magnesium (mg/L)	<.50	1	100	109.1	109	0	-	0 - 20	QC01712
LCSD Dissolved Potassium (mg/L)	<.50	1	100	103.6	104	0	-	0 - 20	QC01712
LCSD Dissolved Sodium (mg/L)	<.50	1	100	99.1	99	1	-	0 - 20	QC01712

Quality Control Report

Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Vinyl Chloride (µg/L)		100	115	115	80 - 120	3/29/00	QC01783
CCV 1	1,1-Dichloroethene (µg/L)		100	111	111	80 - 120	3/29/00	QC01783
CCV 1	Chloroform (µg/L)		100	107	107	80 - 120	3/29/00	QC01783
CCV 1	1,2-Dichloropropane (µg/L)		100	103	103	80 - 120	3/29/00	QC01783
CCV 1	Toluene (µg/L)		100	103	103	80 - 120	3/29/00	QC01783
CCV 1	Chlorobenzene (µg/L)		100	106	106	80 - 120	3/29/00	QC01783
CCV 1	Ethylbenzene (µg/L)		100	105	105	80 - 120	3/29/00	QC01783
CCV 1	Dibromofluoromethane (µg/L)		50	50.59	101	80 - 120	3/29/00	QC01783
CCV 1	Toluene-d8 (µg/L)		50	49.94	100	80 - 120	3/29/00	QC01783
CCV 1	4-Bromofluorobenzene (µg/L)		50	51.99	104	80 - 120	3/29/00	QC01783

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	3/30/00	QC01789
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	192	0	80 - 120	3/30/00	QC01789
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	23	0	80 - 120	3/30/00	QC01789
ICV	Total Alkalinity (mg/L as CaCo3)		236	215	91	80 - 120	3/30/00	QC01789
CCV 1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	3/30/00	QC01789
CCV 1	Carbonate Alkalinity (mg/L as CaCo3)		0	240	0	80 - 120	3/30/00	QC01789
CCV 1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	6	0	80 - 120	3/30/00	QC01789
CCV 1	Total Alkalinity (mg/L as CaCo3)		236	246	104	80 - 120	3/30/00	QC01789

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1330	94	80 - 120	3/28/00	QC01752
CCV 1	Specific Conductance (uMHOS/cm)		1413	1334	94	80 - 120	3/28/00	QC01752

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Dissolved Calcium (mg/L)		20	21.1	106	75 - 125	4/7/00	QC01712
ICV	Dissolved Magnesium (mg/L)		20	21.7	109	75 - 125	4/7/00	QC01712
ICV	Dissolved Potassium (mg/L)		20	20.4	102	75 - 125	4/7/00	QC01712
ICV	Dissolved Sodium (mg/L)		20	20.4	102	75 - 125	4/7/00	QC01712
CCV 1	Dissolved Calcium (mg/L)		20	21.1	106	75 - 125	4/7/00	QC01712
CCV 1	Dissolved Magnesium (mg/L)		20	21.7	109	75 - 125	4/7/00	QC01712
CCV 1	Dissolved Potassium (mg/L)		20	20.4	102	75 - 125	4/7/00	QC01712
CCV 1	Dissolved Sodium (mg/L)		20	20.4	102	75 - 125	4/7/00	QC01712

Quality Control Report

Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.55	92	80 - 120	3/23/00	QC01692
ICV	Fluoride (mg/L)		2.5	2.54	102	80 - 120	3/23/00	QC01692
ICV	Nitrate-N (mg/L)		5	4.67	93	80 - 120	3/23/00	QC01692
ICV	Sulfate (mg/L)		12.5	12.13	97	80 - 120	3/23/00	QC01692
CCV 1	CL (mg/L)		12.5	11.62	93	80 - 120	3/23/00	QC01692
CCV 1	Fluoride (mg/L)		2.5	2.56	102	80 - 120	3/23/00	QC01692
CCV 1	Nitrate-N (mg/L)		5	4.70	94	80 - 120	3/23/00	QC01692
CCV 1	Sulfate (mg/L)		12.5	12.15	97	80 - 120	3/23/00	QC01692

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	pH (s.u.)		7	7.0	100	80 - 120	3/23/00	QC01744
CCV 1	pH (s.u.)		7	7.0	100	80 - 120	3/23/00	QC01744

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	1018	102	80 - 120	3/24/00	QC01693
CCV 1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	3/24/00	QC01693

