

ATTACHMENT C

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ANALYTICAL REPORTS: CONVENTIONAL CHEMISTRIES

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## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 11, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-01B

Field Sample ID:  
GW-103A

463 West 3600 South  
Salt Lake City, Utah  
84115

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	7/27/00	6010B	0.10	450
Iron	mg/L	7/27/00	6010B	0.10	0.40
Magnesium	mg/L	7/27/00	6010B	0.10	690
Potassium	mg/L	7/27/00	6010B	0.10	470
Sodium	mg/L	7/27/00	6010B	0.10	14,000

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Released by: Paul D. [Signature]

Laboratory Supervisor

Report Date:

August 8, 2000

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Lab Sample ID:  
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463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	<b>0.010</b>
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	<b>0.027</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.12</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	7/13/00	2320 B	10	270
Carbonate (As CaCO <sub>3</sub> )	mg/L	7/13/00	2320 B	10	< 10
Chloride	mg/L	7/13/00	4500-CL B	5.0	25,000
Conductivity	µmhos/cm	7/13/00	2510B	10	53,000
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	3.3
Ion Balance		7/28/00		0	-3.8
Nitrate (as N)	mg/L	7/13/00	4500-NO <sub>3</sub> F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO <sub>3</sub> F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	7.40 *
Sulfate	mg/L	7/13/00	375.4	5.0	2,800
TDS	mg/L	7/13/00	2540C	10	31,000
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/18/00	9020B	0.050	< 0.050
TSS	mg/L	7/13/00	2540D	10	5,000

\* Sample had expired upon receipt.

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Client: Envirocare of Utah  
Date Sampled: July 11, 2000  
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Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-02A

Field Sample ID:  
GW-103B

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Salt Lake City, Utah  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>3.4</b>
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	<b>7.40</b> *
TDS	mg/L	7/13/00	2540C	10	<b>37,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/18/00	9020B	0.050	< 0.050

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Lab Sample ID:  
L41937-02A

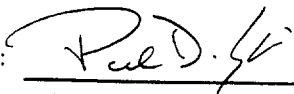
Field Sample ID:  
GW-103B

463 West 3600 South  
Salt Lake City, Utah  
84115

### **DISSOLVED METALS**

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.014</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	<b>0.0050</b>
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.030</b>
Copper	mg/L	7/21/00	6010B	0.0080	<b>0.0080</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.12</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Contact: Jeff Low  
Date Received: July 12, 2000

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L41937-03A

Field Sample ID:  
GW-103C

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Salt Lake City, Utah  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>3.3</b>
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	<b>7.40</b> *
TDS	mg/L	7/13/00	2540C	10	<b>36,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	<b>1.6</b>
TOX	mg/L	7/18/00	9020B	0.050	< 0.050

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Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-03A


Field Sample ID:  
GW-103C

463 West 3600 South  
Salt Lake City, Utah  
84115

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.011</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	<b>0.0060</b>
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	<b>0.019</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.12</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-04A

Field Sample ID:  
GW-103D

463 West 3600 South  
Salt Lake City, Utah  
84115

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>3.3</b>
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	<b>7.40</b> *
TDS	mg/L	7/13/00	2540C	10	<b>37,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	<b>1.2</b>
TOX	mg/L	7/18/00	9020B	0.050	< 0.050

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Field Sample ID:  
GW-103D

463 West 3600 South  
Salt Lake City, Utah  
84115

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	<b>0.0040</b>
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	<b>0.0090</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.12</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	7/27/00	6010B	0.10	340
Iron	mg/L	7/27/00	6010B	0.10	0.20
Magnesium	mg/L	7/27/00	6010B	0.10	570
Potassium	mg/L	7/27/00	6010B	0.10	440
Sodium	mg/L	7/27/00	6010B	0.10	14,000

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	7/13/00	2320 B	10	270
Carbonate (As CaCO <sub>3</sub> )	mg/L	7/13/00	2320 B	10	< 10
Chloride	mg/L	7/13/00	4500-CL B	5.0	25,000
Conductivity	µmhos/cm	7/13/00	2510B	10	50,000
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	2.9
Ion Balance		7/28/00		0	-5.5
Nitrate (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	7.50
Sulfate	mg/L	7/13/00	375.4	5.0	2,600
TDS	mg/L	7/13/00	2540C	10	29,000
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/18/00	9020B	0.050	< 0.050
TSS	mg/L	7/13/00	2540D	10	5,000

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463 West 3600 South  
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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.10</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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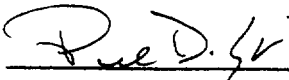
Lab Sample ID:  
L41937-06A

Field Sample ID:  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.9</b>
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	<b>7.50</b>
TDS	mg/L	7/13/00	2540C	10	<b>37,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

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Field Sample ID:  
GW-104B

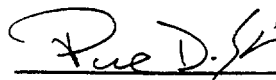
463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.090</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 12, 2000

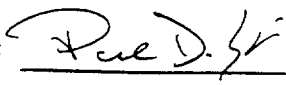
Lab Sample ID:  
L41937-07A

Field Sample ID:  
GW-104C

463 West 3600 South  
Salt Lake City, Utah  
84115

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	2.7
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	7.50
TDS	mg/L	7/13/00	2540C	10	38,000
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
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Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-07A

Field Sample ID:  
GW-104C

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.090</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 12, 2000

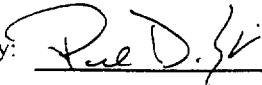
Lab Sample ID:  
L41937-08A

Field Sample ID:  
GW-104D

463 West 3600 South  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.9</b>
Nitrate/Nitrite (as N)	mg/L	7/13/00	4500-NO3F	0.10	< 0.10
pH	pH units	7/13/00	4500/9040B	0	<b>7.50</b>
TDS	mg/L	7/13/00	2540C	10	<b>38,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-08A

Field Sample ID:  
GW-104D

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Salt Lake City, Utah  
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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.013</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.090</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	< 0.010
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 12, 2000

Lab Sample ID:  
L41937-09A

Field Sample ID:  
GW-104E

463 West 3600 South  
Salt Lake City, Utah  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/18/00	4500-CNE	0.010	< 0.010

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-01A

Field Sample ID:  
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Salt Lake City, Utah  
84115

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	7/17/00	2320 B	10	200
Carbonate (As CaCO <sub>3</sub> )	mg/L	7/17/00	2320 B	10	< 10
Chloride	mg/L	7/17/00	4500-CL B	5.0	23,000
Conductivity	µmhos/cm	7/14/00	2510B	10	51,000
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	2.9
Ion Balance		7/28/00		0	-4.2
Nitrate (as N)	mg/L	7/18/00	4500-NO3F	0.10	0.72
Nitrate/Nitrite (as N)	mg/L	7/18/00	4500-NO3F	0.10	0.72
pH	pH units	7/13/00	4500/9040B	0	7.50
Sulfate	mg/L	7/14/00	375.4	5.0	2,400
TDS	mg/L	7/17/00	2540C	10	25,000
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/19/00	9020B	0.050	< 0.050
TSS	mg/L	7/17/00	2540D	10	5,900

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-01B

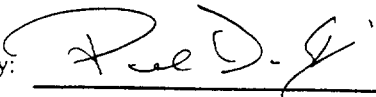
Field Sample ID:  
GW-105A

463 West 3600 South  
Salt Lake City, Utah  
84115

### **TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	7/27/00	6010B	0.10	<b>300</b>
Iron	mg/L	7/27/00	6010B	0.10	< 0.10
Magnesium	mg/L	7/27/00	6010B	0.10	<b>500</b>
Potassium	mg/L	7/27/00	6010B	0.10	<b>430</b>
Sodium	mg/L	7/27/00	6010B	0.10	<b>13,000</b>

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-01A

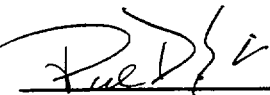
Field Sample ID:  
GW-105A

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.017</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.9</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	<b>0.020</b>
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-02A

Field Sample ID:  
GW-105B

463 West 3600 South  
Salt Lake City, Utah  
84115

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	2.9
Nitrate/Nitrite (as N)	mg/L	7/18/00	4500-NO3F	0.10	0.72
pH	pH units	7/13/00	4500/9040B	0	7.60
TDS	mg/L	7/17/00	2540C	10	35,000
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	1.1
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
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Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-02A


Field Sample ID:  
GW-105B

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.015</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.9</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	<b>0.020</b>
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
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Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-03A

Field Sample ID:  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.8</b>
Nitrate/Nitrite (as N)	mg/L	7/18/00	4500-NO3F	0.10	<b>0.78</b>
pH	pH units	7/13/00	4500/9040B	0	<b>7.50</b>
TDS	mg/L	7/17/00	2540C	10	<b>35,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	<b>1.3</b>
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

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Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-03A


Field Sample ID:  
GW-105C

463 West 3600 South  
Salt Lake City, Utah  
84115

### **DISSOLVED METALS**

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.017</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.8</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	<b>0.020</b>
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-04A

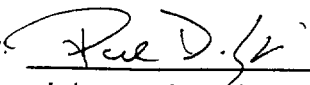
Field Sample ID:  
GW-105D

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.8</b>
Nitrate/Nitrite (as N)	mg/L	7/18/00	4500-NO3F	0.10	<b>0.69</b>
pH	pH units	7/13/00	4500/9040B	0	<b>7.50</b>
TDS	mg/L	7/17/00	2540C	10	<b>34,000</b>
Total Organic Carbon	mg/L	7/19/00	5310C	1.0	< 1.0
TOX	mg/L	7/19/00	9020B	0.050	< 0.050

Released by:

  
Laboratory Supervisor

Report Date:

August 8, 2000

Page 1 of 1





## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-04A

Field Sample ID:  
GW-105D

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	7/25/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	7/21/00	6010B	0.0040	<b>0.016</b>
Beryllium	mg/L	7/21/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	7/21/00	6010B	0.0040	< 0.0040
Chromium	mg/L	7/21/00	6010B	0.020	<b>0.020</b>
Copper	mg/L	7/21/00	6010B	0.0080	< 0.0080
Fluoride	mg/L	7/18/00	4500-FD	1.0	<b>2.8</b>
Lead	mg/L	7/25/00	7421	0.010	< 0.010
Mercury	mg/L	7/26/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	7/21/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	7/21/00	6010B	0.010	< 0.010
Selenium	mg/L	7/25/00	7740	0.010	<b>0.030</b>
Silver	mg/L	7/21/00	6010B	0.010	< 0.010
Zinc	mg/L	7/21/00	6010B	0.10	< 0.10

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Released by:

Paul D. G.

Laboratory Supervisor

Report Date:

August 10, 2000

Page 1 of 1



## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-05A

Field Sample ID:  
GW-105E

463 West 3600 South  
Salt Lake City, Utah  
84115

<b>Analytical Results</b>	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010

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Laboratory Supervisor

Report Date:

August 8, 2000

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## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000


Lab Sample ID:  
L41958-06A

Field Sample ID:  
GW-105F

463 West 3600 South  
Salt Lake City, Utah  
84115

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010

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Report Date:

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## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000


Lab Sample ID:  
L41958-07A

Field Sample ID:  
GW-105G

463 West 3600 South  
Salt Lake City, Utah  
84115

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010

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Report Date: August 8, 2000 Page 1 of 1



## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: July 12, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: July 13, 2000

Lab Sample ID:  
L41958-08A

Field Sample ID:  
GW-105H

463 West 3600 South  
Salt Lake City, Utah  
84115

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	7/19/00	4500-CNE	0.010	< 0.010

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Fax (801) 263-8687

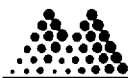
Released by:

Laboratory Supervisor

Report Date:

August 8, 2000

Page 1 of 1



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-01A  
**Client Sample ID:** MW-Pond  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 310.1: Alkalinity as CaCO<sub>3</sub>, Water</b>							
Bicarbonate	64.0	2	10	mg/L	1	08/02/00 14:00	AMS
Carbonate	32.0	2	10	mg/L	1	08/02/00 14:00	AMS
Hydroxide	U	2	10	mg/L	1	08/02/00 14:00	AMS
Total alkalinity	96.0	2	10	mg/L	1	08/02/00 14:00	AMS
<b>EPA 300.0: Anions by I. C. (Br, Cl, F, SO<sub>4</sub>), Water</b>							
Bromide	U	4	20	mg/L	200	07/20/00 17:47	NWL
Chloride	12300	560	2810	mg/L	6250	07/20/00 20:17	NWL
Fluoride	6.71 J	2	10	mg/L	200	07/20/00 17:47	NWL
Sulfate	1230	70	350	mg/L	1000	07/20/00 17:30	NWL
<b>EPA 300.0: Anions by I.C. (NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>), Water</b>							
Nitrate Nitrogen	U	2	10	mg/L	200	07/20/00 17:47	NWL
Nitrite Nitrogen	U	2	10	mg/L	1000	07/20/00 17:30	NWL
<b>EPA 150.1: pH, Water</b>							
pH	9.14	0.01	0.05	pH Units	1	07/20/00 16:45	NWL
<b>EPA 160.1: Solids, Total Dissolved (TDS), Water</b>							
Total dissolved solids	25600	1300	6500	mg/L	100	07/24/00 11:50	AMS
<b>EPA 160.2: Solids, Total Suspended (TSS), Water</b>							
Total suspended solids	15.6 J	5	25	mg/L	1	07/24/00 11:30	AMS
<b>EPA 120.1: Specific Conductance, Water</b>							
Conductivity	33600	1	3	µmhos/cm	1	07/20/00 09:15	NWL

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

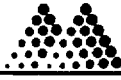
S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-01B  
**Client Sample ID:** MW-Pond  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 415.1: Carbon, Total Organic, Water</b>							
Total Organic Carbon	10.0	0.3	1.5	mg/L	1	07/31/00 10:00	FLS
<b>SW-846 9020B: Halogen, Total Organic, Water</b>							
Total Halogens	1290 J	750	2250	µg/L	25	08/09/00 10:00	FLS
Note for 08/09/00 10:00 analysis: Sample diluted 25X and double-rinsed due to high inorganic chlorides.							

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-01C  
**Client Sample ID:** MW-Pond  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
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**SW-846 3005A: Flame/hrICP Prep, Water**

Prep Batch ID: 3490 08/02/00 14:20 LC

**SW-846 7470A: Mercury by CVAA, Water**

Mercury U 0.1 0.5 µg/L 1 08/03/00 14:09 ITI

**SW-846 7470A: Mercury Prep CVAA, Water**

Prep Batch ID: 3494 08/03/00 08:17 MM

**SW-846 6010B: Metals by hrICP, Water**

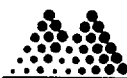
Arsenic	U	0.02	0.1	mg/L	1	08/02/00 19:16	ITI
Barium	0.351	0.003	0.015	mg/L	1	08/02/00 19:16	ITI
Beryllium	U	0.0002	0.001	mg/L	1	08/02/00 19:16	ITI
Cadmium	0.00301 J	0.003	0.015	mg/L	1	08/02/00 19:16	ITI
Chromium	U	0.01	0.05	mg/L	1	08/02/00 19:16	ITI
Cobalt	U	0.003	0.015	mg/L	1	08/02/00 19:16	ITI
Copper	U	0.01	0.05	mg/L	1	08/02/00 19:16	ITI
Iron	U	0.2	1	mg/L	1	08/02/00 19:16	ITI
Lead	U	0.02	0.1	mg/L	1	08/02/00 19:16	ITI
Molybdenum	0.105	0.01	0.05	mg/L	1	08/02/00 19:16	ITI
Nickel	0.0512	0.005	0.025	mg/L	1	08/02/00 19:16	ITI
Selenium	U	0.03	0.15	mg/L	1	08/02/00 19:16	ITI
Silver	U	0.004	0.02	mg/L	1	08/02/00 19:16	ITI
Zinc	U	0.05	0.25	mg/L	1	08/02/00 19:16	ITI

**SW-846 6010B: Metals by ICP, Water**

Calcium	424	50	250	mg/L	50	08/03/00 19:53	DJK
Magnesium	394	2.5	12.5	mg/L	50	08/03/00 19:53	DJK
Potassium	207	10	50	mg/L	50	08/03/00 19:53	DJK
Sodium	7590	50	250	mg/L	50	08/03/00 19:53	DJK

U - Not detected above the MDL      B - Analyte detected in the associated Method Blank      S - Results outside normal recovery limits  
 J - Analyte detected below the PQL      E - Result is outside of quantitation range      R - RPD outside normal precision limits  
 \* - Result is greater than the associated action level





# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-01D  
**Client Sample ID:** MW-Pond  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 335.2: Cyanide, Total, Water</b>							
Cyanide	0.00900 J	0.004	0.02	mg/L	1	07/28/00	FLS

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-02A  
**Client Sample ID:** P3-95  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 310.1: Alkalinity as CaCO3, Water</b>							
Bicarbonate	144	2	10	mg/L	1	08/02/00 14:00	AMS
Carbonate	U	2	10	mg/L	1	08/02/00 14:00	AMS
Hydroxide	U	2	10	mg/L	1	08/02/00 14:00	AMS
Total alkalinity	144	2	10	mg/L	1	08/02/00 14:00	AMS
<b>EPA 300.0: Anions by I. C. (Br, Cl, F, SO4), Water</b>							
Bromide	42.2	4	20	mg/L	200	07/20/00 18:20	NWL
Chloride	33200	560	2810	mg/L	6250	07/20/00 20:34	NWL
Fluoride	8.15 J	2	10	mg/L	200	07/20/00 18:20	NWL
Sulfate	2780	70	350	mg/L	1000	07/20/00 18:03	NWL
<b>EPA 300.0: Anions by I.C. (NO2, NO3, PO4), Water</b>							
Nitrate Nitrogen	U	2	10	mg/L	200	07/20/00 18:20	NWL
Nitrite Nitrogen	U	2	10	mg/L	1000	07/20/00 18:03	NWL
<b>EPA 150.1: pH, Water</b>							
pH	8.35	0.01	0.05	pH Units	1	07/20/00 16:45	NWL
<b>EPA 160.1: Solids, Total Dissolved (TDS), Water</b>							
Total dissolved solids	57100	1300	6500	mg/L	100	07/24/00 11:50	AMS
<b>EPA 160.2: Solids, Total Suspended (TSS), Water</b>							
Total suspended solids	42.0	5	25	mg/L	1	07/24/00 11:30	AMS
<b>EPA 120.1: Specific Conductance, Water</b>							
Conductivity	72300	1	3	µmhos/cm	1	07/20/00 09:15	NWL

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-02B  
**Client Sample ID:** P3-95  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 415.1: Carbon, Total Organic, Water</b>							
Total Organic Carbon	6.18	0.3	1.5	mg/L	1	07/31/00 10:00	FLS
<b>SW-846 9020B: Halogen, Total Organic, Water</b>							
Total Halogens	1830 J	750	2250	µg/L	25	08/09/00 10:00	FLS

Note for 08/09/00 10:00 analysis: Sample diluted 25X and double-rinsed due to high inorganic chlorides.

U - Not detected above the MDL  
 B - Analyte detected in the associated Method Blank  
 S - Results outside normal recovery limits  
 J - Analyte detected below the PQL  
 E - Result is outside of quantitation range  
 R - RPD outside normal precision limits  
 \* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-02C  
**Client Sample ID:** P3-95  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>SW-846 3005A: Flame/hrICP Prep, Water</b>							
Prep Batch ID: 3490						08/02/00 14:20	LC
<b>SW-846 7470A: Mercury by CVAA, Water</b>							
Mercury	U	0.1	0.5	µg/L	1	08/03/00 14:10	ITI
<b>SW-846 7470A: Mercury Prep CVAA, Water</b>							
Prep Batch ID: 3494						08/03/00 08:17	MM
<b>SW-846 6010B: Metals by hrICP, Water</b>							
Arsenic	U	0.02	0.1	mg/L	1	08/02/00 19:20	ITI
Barium	0.333	0.003	0.015	mg/L	1	08/02/00 19:20	ITI
Beryllium	U	0.0002	0.001	mg/L	1	08/02/00 19:20	ITI
Cadmium	U	0.003	0.015	mg/L	1	08/02/00 19:20	ITI
Chromium	U	0.01	0.05	mg/L	1	08/02/00 19:20	ITI
Cobalt	U	0.003	0.015	mg/L	1	08/02/00 19:20	ITI
Copper	U	0.01	0.05	mg/L	1	08/02/00 19:20	ITI
Iron	U	0.2	1	mg/L	1	08/02/00 19:20	ITI
Lead	U	0.02	0.1	mg/L	1	08/02/00 19:20	ITI
Molybdenum	0.232	0.01	0.05	mg/L	1	08/02/00 19:20	ITI
Nickel	0.0361	0.005	0.025	mg/L	1	08/02/00 19:20	ITI
Selenium	U	0.03	0.15	mg/L	1	08/02/00 19:20	ITI
Silver	U	0.004	0.02	mg/L	1	08/02/00 19:20	ITI
Zinc	U	0.05	0.25	mg/L	1	08/02/00 19:20	ITI
<b>SW-846 6010B: Metals by ICP, Water</b>							
Calcium	910	50	250	mg/L	50	08/03/00 19:56	DJK
Magnesium	1080	2.5	12.5	mg/L	50	08/03/00 19:56	DJK
Potassium	482	10	50	mg/L	50	08/03/00 19:56	DJK
Sodium	17500	50	250	mg/L	50	08/03/00 19:56	DJK

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007219-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007219  
**Lab Sample ID:** 0007219-02D  
**Client Sample ID:** P3-95  
**Date Collected:** 07/19/00  
**Date Received:** 07/19/00 17:30  
**Matrix:** Water  
**COC ID:** 00936

**Project:** LARW Groundwater Wells  
**Project ID:**  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 335.2: Cyanide, Total, Water</b>							
Cyanide	U	0.004	0.02	mg/L	1	07/28/00	FLS

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level

# Cation Anion Balance Worksheet

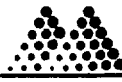
0007219

Sample #: 0007219-01A

Sample #: 0007219-02A

Sample #:

Cations	MW-Pond		P3-95		Sample #:	
	mg/l	meq/l	mg/l	meq/l	mg/l	meq/l
Calcium	424	21.2	910	45.4		0.0
Magnesium	394	32.4	1080	88.8		0.0
Iron	0	0.0	0	0.0		0.0
Potassium	207	5.3	482	12.3		0.0
Sodium	7590	330.2	17500	761.3		0.0
Cation Total =		389.0	Total =	907.8	Total =	0.0
Anions	mg/l	meq/l	mg/l	meq/l	mg/l	meq/l
Chloride	12300	347.0	33200	936.6		0.0
Bicarbonate	64	1.3	144	2.9		0.0
Sulfate	1230	25.6	2780	57.9		0.0
Fluoride	6.71	0.4	8.15	0.4		0.0
Nitrate	0	0.0	0	0.0		0.0
Anion Total =		374.2	Total =	997.8	Total =	0.0
Percentage Error =		3.88%		-9.44%		ERR



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-01A  
**Client Sample ID:** P3-97  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 310.1: Alkalinity as CaCO<sub>3</sub>, Water</b>							
Bicarbonate	175	2	10	mg/L	1	07/27/00 09:25	AMS
Carbonate	U	2	10	mg/L	1	07/27/00 09:25	AMS
Hydroxide	U	2	10	mg/L	1	07/27/00 09:25	AMS
Total alkalinity	175	2	10	mg/L	1	07/27/00 09:25	AMS
<b>EPA 300.0: Anions by I. C. (Br, Cl, F, SO<sub>4</sub>), Water</b>							
Bromide	75.0	8	40	mg/L	400	07/21/00 17:28	NWL
Chloride	61000	2200	11200	mg/L	25000	07/24/00 11:55	NWL
Fluoride	13.0 J	4	20	mg/L	400	07/21/00 17:28	NWL
Sulfate	5470	140	700	mg/L	2000	07/21/00 17:11	NWL
<b>EPA 300.0: Anions by I.C. (NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>), Water</b>							
Nitrate Nitrogen	U	4	20	mg/L	400	07/21/00 17:28	NWL
Nitrite Nitrogen	U	25	120	mg/L	12500	07/21/00 17:11	NWL
<b>EPA 150.1: pH, Water</b>							
pH	8.12	0.01	0.05	pH Units	1	07/21/00 09:00	RK
<b>EPA 160.1: Solids, Total Dissolved (TDS), Water</b>							
Total dissolved solids	116000	2600	13000	mg/L	200	07/24/00 11:50	AMS
<b>EPA 160.2: Solids, Total Suspended (TSS), Water</b>							
Total suspended solids	46.4	5	25	mg/L	1	07/24/00 11:30	AMS
<b>EPA 120.1: Specific Conductance, Water</b>							
Conductivity	101000	1	3	µmhos/cm	1	07/24/00 10:30	NWL

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-01B  
**Client Sample ID:** P3-97  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
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### EPA 415.1: Carbon, Total Organic, Water

Total Organic Carbon	9.40	0.3	1.5	mg/L	1	07/31/00 10:00	FLS
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Note for 07/31/00 10:00 analysis: Due to poor spike recovery, MS/MSD were rerun to confirm matrix interference. MS %Rec. = 0.00

### SW-846 9020B: Halogen, Total Organic, Water

Total Halogens	1200 J	750	2250	µg/L	25	08/09/00 10:00	FLS
----------------	--------	-----	------	------	----	----------------	-----

Note for 08/09/00 10:00 analysis: Sample diluted 25X and double-rinsed due to high inorganic chlorides.

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level





# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-01C  
**Client Sample ID:** P3-97  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>SW-846 3005A: Flame/hrICP Prep, Water</b>							
Prep Batch ID: 3513						08/04/00 14:43	LC
<b>SW-846 7470A: Mercury by CVAA, Water</b>							
Mercury	0.140 J	0.1	0.5	µg/L	1	08/08/00 09:33	MM
<b>SW-846 7470A: Mercury Prep CVAA, Water</b>							
Prep Batch ID: 3541						08/07/00 15:24	MM
<b>SW-846 6010B: Metals by hrICP, Water</b>							
Arsenic	U	0.02	0.1	mg/L	1	08/07/00 15:41	ITI
Barium	0.461	0.003	0.015	mg/L	1	08/07/00 15:41	ITI
Beryllium	U	0.0002	0.001	mg/L	1	08/07/00 15:41	ITI
Cadmium	0.00500 J	0.003	0.015	mg/L	1	08/07/00 15:41	ITI
Chromium	U	0.01	0.05	mg/L	1	08/07/00 15:41	ITI
Cobalt	0.00330 J	0.003	0.015	mg/L	1	08/07/00 15:41	ITI
Copper	0.0450 J	0.01	0.05	mg/L	1	08/07/00 18:39	ITI
Iron	U	0.2	1	mg/L	1	08/07/00 15:41	ITI
Lead	U	0.02	0.1	mg/L	1	08/07/00 15:41	ITI
Molybdenum	0.374	0.01	0.05	mg/L	1	08/07/00 15:41	ITI
Nickel	0.154	0.005	0.025	mg/L	1	08/07/00 15:41	ITI
Selenium	U	0.03	0.15	mg/L	1	08/07/00 15:41	ITI
Silver	0.00610 J	0.004	0.02	mg/L	1	08/07/00 15:41	ITI
Zinc	0.0680 J	0.05	0.25	mg/L	1	08/07/00 15:41	ITI
<b>SW-846 6010B: Metals by ICP, Water</b>							
Calcium	1740	50	250	mg/L	50	08/07/00 18:01	DJK
Magnesium	2150 B	2.5	12.5	mg/L	50	08/07/00 18:01	DJK
Potassium	1070 B	10	50	mg/L	50	08/07/00 18:01	DJK
Sodium	34600	50	250	mg/L	50	08/07/00 18:01	DJK

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

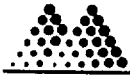
S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-01D  
**Client Sample ID:** P3-97  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 335.2: Cyanide, Total, Water</b>							
Cyanide	U	0.004	0.02	mg/L	1	07/28/00	FLS

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level


**Mountain States Analytical, Inc.**

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-02A  
**Client Sample ID:** GW-904  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 310.1: Alkalinity as CaCO<sub>3</sub>, Water</b>							
Bicarbonate	176	2	10	mg/L	1	07/27/00 09:25	AMS
Carbonate	U	2	10	mg/L	1	07/27/00 09:25	AMS
Hydroxide	U	2	10	mg/L	1	07/27/00 09:25	AMS
Total alkalinity	176	2	10	mg/L	1	07/27/00 09:25	AMS
<b>EPA 300.0: Anions by I. C. (Br, Cl, F, SO<sub>4</sub>), Water</b>							
Bromide	73.8	8	40	mg/L	400	07/21/00 18:51	NWL
Chloride	55200	2200	11200	mg/L	25000	07/24/00 12:45	NWL
Fluoride	14.0 J	4	20	mg/L	400	07/21/00 18:51	NWL
Sulfate	5640	140	700	mg/L	2000	07/21/00 18:35	NWL
<b>EPA 300.0: Anions by LC. (NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>), Water</b>							
Nitrate Nitrogen	U	4	20	mg/L	400	07/21/00 18:51	NWL
Nitrite Nitrogen	U	25	120	mg/L	12500	07/21/00 18:35	NWL
<b>EPA 150.1: pH, Water</b>							
pH	8.13	0.01	0.05	pH Units	1	07/21/00 09:00	RK
<b>EPA 160.1: Solids, Total Dissolved (TDS), Water</b>							
Total dissolved solids	121000	2600	13000	mg/L	200	07/24/00 11:50	AMS
<b>EPA 160.2: Solids, Total Suspended (TSS), Water</b>							
Total suspended solids	61.6	5	25	mg/L	1	07/24/00 11:30	AMS
<b>EPA 120.1: Specific Conductance, Water</b>							
Conductivity	102000	1	3	µmhos/cm	1	07/24/00 10:30	NWL

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

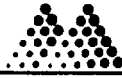
S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

Client: Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

Report Number: 0007235-1  
Date Reported: 08/22/00  
Work Order: 0007235  
Lab Sample ID: 0007235-02B  
Client Sample ID: GW-904  
Date Collected: 07/20/00  
Date Received: 07/20/00 17:15  
Matrix: Water  
COC ID: 00938

Project: LARW Groundwater Wells  
Project ID: 00938  
Purchase Order:

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 415.1: Carbon, Total Organic, Water</b>							
Total Organic Carbon	9.08	0.3	1.5	mg/L	1	07/31/00 10:00	FLS
<b>SW-846 9020B: Halogen, Total Organic, Water</b>							
Total Halogens	U	750	2250	µg/L	25	08/09/00 10:00	FLS

Note for 08/09/00 10:00 analysis: Sample diluted 25X and double-rinsed due to high inorganic chlorides.

U - Not detected above the MDL  
 B - Analyte detected in the associated Method Blank  
 S - Results outside normal recovery limits  
 J - Analyte detected below the PQL  
 E - Result is outside of quantitation range  
 R - RPD outside normal precision limits  
 \* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
Envirocare of Utah, Inc.  
46 West Broadway  
Salt Lake City, UT 84101  
(801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-02C  
**Client Sample ID:** GW-904  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>SW-846 3005A: Flame/hrICP Prep, Water</b>							
Prep Batch ID: 3513						08/04/00 14:43	LC
<b>SW-846 7470A: Mercury by CVAA, Water</b>							
Mercury	U	0.1	0.5	µg/L	1	08/08/00 09:42	MM
<b>SW-846 7470A: Mercury Prep CVAA, Water</b>							
Prep Batch ID: 3541						08/07/00 15:24	MM
<b>SW-846 6010B: Metals by hrICP, Water</b>							
Arsenic	U	0.02	0.1	mg/L	1	08/07/00 16:11	ITI
Barium	0.491	0.003	0.015	mg/L	1	08/07/00 16:11	ITI
Beryllium	U	0.0002	0.001	mg/L	1	08/07/00 16:11	ITI
Cadmium	0.00500 J	0.003	0.015	mg/L	1	08/07/00 16:11	ITI
Chromium	U	0.01	0.05	mg/L	1	08/07/00 16:11	ITI
Cobalt	0.00380 J	0.003	0.015	mg/L	1	08/07/00 16:11	ITI
Copper	0.0440 J	0.01	0.05	mg/L	1	08/07/00 19:09	ITI
Iron	U	0.2	1	mg/L	1	08/07/00 16:11	ITI
Lead	U	0.02	0.1	mg/L	1	08/07/00 16:11	ITI
Molybdenum	0.370	0.01	0.05	mg/L	1	08/07/00 16:11	ITI
Nickel	0.150	0.005	0.025	mg/L	1	08/07/00 16:11	ITI
Selenium	U	0.03	0.15	mg/L	1	08/07/00 16:11	ITI
Silver	0.00650 J	0.004	0.02	mg/L	1	08/07/00 16:11	ITI
Zinc	0.110 J	0.05	0.25	mg/L	1	08/07/00 16:11	ITI
<b>SW-846 6010B: Metals by ICP, Water</b>							
Calcium	1730	50	250	mg/L	50	08/07/00 18:23	DJK
Magnesium	2130 B	2.5	12.5	mg/L	50	08/07/00 18:23	DJK
Potassium	1060 B	10	50	mg/L	50	08/07/00 18:23	DJK
Sodium	34100	50	250	mg/L	50	08/07/00 18:23	DJK

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level



# Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

**Client:** Mr. Dan Shrum  
 Envirocare of Utah, Inc.  
 46 West Broadway  
 Salt Lake City, UT 84101  
 (801) 532-1330 Fax: (801) 537-7345

**Report Number:** 0007235-1  
**Date Reported:** 08/22/00  
**Work Order:** 0007235  
**Lab Sample ID:** 0007235-02D  
**Client Sample ID:** GW-904  
**Date Collected:** 07/20/00  
**Date Received:** 07/20/00 17:15  
**Matrix:** Water  
**COC ID:** 00938

**Project:** LARW Groundwater Wells  
**Project ID:** 00938  
**Purchase Order:**

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
<b>EPA 335.2: Cyanide, Total, Water</b>							
Cyanide	0.00400 J	0.004	0.02	mg/L	1	08/01/00 10:00	FLS

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

\* - Result is greater than the associated action level

# Cation Anion Balance Worksheet

0007235

Sample #: 0007235-01A  
P3-97

Sample #: 0007235-02A  
GW-904

Sample #:

Cations	mg/l	meq/l	mg/l	meq/l	mg/l	meq/l
Calcium	1740	86.8	1730	86.3		0.0
Magnesium	2150	176.9	2130	175.2		0.0
Iron	0	0.0	0	0.0		0.0
Potassium	1070	27.4	1060	27.1		0.0
Sodium	34600	1505.1	34100	1483.4		0.0
Cation Total =		1796.1	Total =	1772.0	Total =	0.0
Anions	mg/l	meq/l	mg/l	meq/l	mg/l	meq/l
Chloride	61000	1720.8	55200	1557.2		0.0
Bicarbonate	175	3.5	176	3.5		0.0
Sulfate	5470	113.9	5640	117.4		0.0
Fluoride	13	0.7	14	0.7		0.0
Nitrate	0	0.0	0	0.0		0.0
Anion Total =		1838.9	Total =	1678.9	Total =	0.0
Percentage Error =		-2.35%		5.40%		ERR



# INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-01C

Field Sample ID:  
GW-19A

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	120
Carbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	< 10
Chloride	mg/L	8/3/00	4500-CL B	5.0	40,000
Conductivity	µmhos/cm	8/2/00	2510B	10	52,000
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	5.2
Ion Balance		8/21/00		0	-1.2
Nitrate (as N)	mg/L	8/3/00	4500-NO3F	0.10	2.2
Nitrate/Nitrite (as N)	mg/L	8/3/00	4500-NO3F	0.10	2.2
pH	pH units	8/2/00	4500/9040B	0	7.40
Sulfate	mg/L	8/3/00	375.4	5.0	6,500
TDS	mg/L	8/2/00	2540C	10	66,000
Total Organic Carbon	mg/L	8/3/00	5310C	1.0	8.5

Released by:

Laboratory Supervisor

Report Date:

August 22, 2000

Page 1 of 1





AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-01D

Field Sample ID:  
GW-19A

463 West 3600 South  
Salt Lake City, Utah  
84115

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	1,100
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	1,500
Potassium	mg/L	8/15/00	6010B	0.10	540
Sodium	mg/L	8/15/00	6010B	0.10	24,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-01C

Field Sample ID:  
GW-19A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.015</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.0070</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.74</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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Report Date:

August 25, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42179-01A  
Field Sample ID: GW-19A  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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Report Date:

August 22, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 8, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42179-01B  
Field Sample ID: **GW-19A**  
Site ID: 11e. (2)


### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

\* Low surrogate recoveries observed. Re-extraction and analysis confirm primary analytical results.

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ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42179-01B  
Field Sample ID: GW-19A  
Site ID: 11e. (2)

Analytical Results

PESTICIDES

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-02C

Field Sample ID:  
GW-63

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	<b>160</b>
Carbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	< 10
Chloride	mg/L	8/3/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	8/2/00	2510B	10	<b>35,000</b>
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.1</b>
Ion Balance		8/21/00		0	-2.4
Nitrate (as N)	mg/L	8/3/00	4500-NO3F	0.10	<b>0.23</b>
Nitrate/Nitrite (as N)	mg/L	8/3/00	4500-NO3F	0.10	<b>0.23</b>
pH	pH units	8/2/00	4500/9040B	0	<b>7.50</b>
Sulfate	mg/L	8/3/00	375.4	5.0	<b>2,900</b>
TDS	mg/L	8/2/00	2540C	10	<b>35,000</b>
Total Organic Carbon	mg/L	8/3/00	5310C	1.0	<b>1.0</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-02D

Field Sample ID:  
GW-63

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**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	420
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	650
Potassium	mg/L	8/15/00	6010B	0.10	440
Sodium	mg/L	8/15/00	6010B	0.10	13,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-02C

Field Sample ID:  
GW-63

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.012</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.025</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42179-02A

Field Sample ID: **GW-63**

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 8, 2000  
Extracted: August 8, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42179-02B  
Field Sample ID: GW-63  
Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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Report Date:

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42179-02B  
Field Sample ID: GW-63  
Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-03C

Field Sample ID:  
GW-776

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	<b>160</b>
Carbonate (As CaCO3)	mg/L	8/3/00	2320 B	10	< 10
Chloride	mg/L	8/3/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	8/2/00	2510B	10	<b>37,000</b>
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.0</b>
Ion Balance		8/21/00		0	<b>0.98</b>
Nitrate (as N)	mg/L	8/3/00	4500-NO3F	0.10	<b>0.22</b>
Nitrate/Nitrite (as N)	mg/L	8/3/00	4500-NO3F	0.10	<b>0.22</b>
pH	pH units	8/2/00	4500/9040B	0	<b>7.60</b>
Sulfate	mg/L	8/3/00	375.4	5.0	<b>2,800</b>
TDS	mg/L	8/2/00	2540C	10	<b>34,000</b>
Total Organic Carbon	mg/L	8/3/00	5310C	1.0	< 1.0

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-03D

Field Sample ID:  
GW-776

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	<b>410</b>
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	<b>660</b>
Potassium	mg/L	8/15/00	6010B	0.10	<b>440</b>
Sodium	mg/L	8/15/00	6010B	0.10	<b>14,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-03C

Field Sample ID:  
GW-776

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.024</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.026</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42179-03A

Field Sample ID: GW-776

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 8, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42179-03B

Field Sample ID: GW-776

Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42179-03B  
Field Sample ID: GW-776  
Site ID: 11e. (2)

**Analytical Results**

**PESTICIDES**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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Released by: *Pued. Sr.*  
Laboratory Supervisor

Report Date: August 22, 2000 Page 1 of 1



AMERICAN  
WEST  
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LABORATORIES

## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-04C

Field Sample ID:  
GW-60

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Salt Lake City, Utah  
84115

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/3/00	2320 B	10	180
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/3/00	2320 B	10	< 10
Chloride	mg/L	8/3/00	4500-CL B	5.0	25,000
Conductivity	µmhos/cm	8/2/00	2510B	10	43,000
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	3.2
Ion Balance		8/21/00		0	-2.1
Nitrate (as N)	mg/L	8/3/00	4500-NO3F	0.10	0.54
Nitrate/Nitrite (as N)	mg/L	8/3/00	4500-NO3F	0.10	0.54
pH	pH units	8/2/00	4500/9040B	0	7.40
Sulfate	mg/L	8/3/00	375.4	5.0	3,200
TDS	mg/L	8/2/00	2540C	10	39,000
Total Organic Carbon	mg/L	8/3/00	5310C	1.0	< 1.0

Released by: Paul D. / 1/2

Laboratory Supervisor

Report Date:

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)


Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-04D

Field Sample ID:  
GW-60

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	470
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	670
Potassium	mg/L	8/15/00	6010B	0.10	460
Sodium	mg/L	8/15/00	6010B	0.10	15,000

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Client: Envirocare of Utah  
Date Sampled: August 1, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 2, 2000

Lab Sample ID:  
L42179-04C

Field Sample ID:  
GW-60

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.013</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.014</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42179-04A

Field Sample ID: GW-60

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 8, 2000  
Extracted: August 8, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42179-04B

Field Sample ID: **GW-60**

Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42179-04B

Field Sample ID: **GW-60**


Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 1, 2000  
Received: August 2, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42179-05A  
Field Sample ID: Trip Blank  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-01D

Field Sample ID:  
GW-58

463 West 3600 South  
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**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	560
Iron	mg/L	8/15/00	6010B	0.10	0.20
Magnesium	mg/L	8/15/00	6010B	0.10	820
Potassium	mg/L	8/15/00	6010B	0.10	510
Sodium	mg/L	8/15/00	6010B	0.10	17,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-01C

Field Sample ID:  
GW-58

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.10</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.32</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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Laboratory Supervisor

Report Date:

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## INORGANIC ANALYSIS REPORT

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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-01C

Field Sample ID:  
GW-58

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	130
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	< 10
Chloride	mg/L	8/4/00	4500-CL B	5.0	28,000
Conductivity	µmhos/cm	8/4/00	2510B	10	62,000
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	3.7
Ion Balance		8/21/00		0	-0.75
Nitrate (as N)	mg/L	8/4/00	4500-NO <sub>3</sub> F	0.010	1.6
Nitrate/Nitrite (as N)	mg/L	8/4/00	4500-NO <sub>3</sub> F	0.010	1.6
pH	pH units	8/4/00	4500/9040B	0	7.10
Sulfate	mg/L	8/4/00	375.4	5.0	3,300
TDS	mg/L	8/4/00	2540C	10	48,000
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	1.6

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42190-01A

Field Sample ID: **GW-58**

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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*Paul D. G.*

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Report Date:

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 8, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42190-01B

Field Sample ID: **GW-58**

Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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Report Date:

August 24, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42190-01B

Field Sample ID: **GW-58**

Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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Report Date:

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-06A

Field Sample ID:  
GW-58A

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.094</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.019</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.32</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-02D

Field Sample ID:  
GW-28

463 West 3600 South  
Salt Lake City, Utah  
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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	<b>480</b>
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	<b>760</b>
Potassium	mg/L	8/15/00	6010B	0.10	<b>510</b>
Sodium	mg/L	8/15/00	6010B	0.10	<b>16,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-02C

Field Sample ID:  
GW-28

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.050</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.019</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.34</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-02C

Field Sample ID:  
GW-28

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	<b>140</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	< 10
Chloride	mg/L	8/4/00	4500-CL B	5.0	<b>27,000</b>
Conductivity	µmhos/cm	8/4/00	2510B	10	<b>62,000</b>
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.5</b>
Ion Balance		8/21/00		0	-2.5
Nitrate (as N)	mg/L	8/4/00	4500-NO <sub>3</sub> F	0.010	<b>0.48</b>
Nitrate/Nitrite (as N)	mg/L	8/4/00	4500-NO <sub>3</sub> F	0.010	<b>0.48</b>
pH	pH units	8/4/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	8/4/00	375.4	5.0	<b>3,500</b>
TDS	mg/L	8/4/00	2540C	10	<b>45,000</b>
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	<b>1.7</b>

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42190-02A

Field Sample ID: **GW-28**

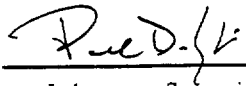
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 9, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42190-02B

Field Sample ID: **GW-28**

Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 10, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42190-02B

Field Sample ID: **GW-28**

Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-07A

Field Sample ID:  
GW-28A

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.019</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.35</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-03C

Field Sample ID:  
GW-57

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### **DISSOLVED METALS**

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.025</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.014</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.44</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-03D

Field Sample ID:  
GW-57

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	<b>810</b>
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	<b>930</b>
Potassium	mg/L	8/15/00	6010B	0.10	<b>540</b>
Sodium	mg/L	8/15/00	6010B	0.10	<b>16,000</b>

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-03C


Field Sample ID:  
GW-57

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	120
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/4/00	2320 B	10	< 10
Chloride	mg/L	8/4/00	4500-CL B	5.0	26,000
Conductivity	µmhos/cm	8/4/00	2510B	10	57,000
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	5.7
Ion Balance		8/21/00		0	-0.14
Nitrate (as N)	mg/L	8/4/00	4500-NO3F	0.010	1.0
Nitrate/Nitrite (as N)	mg/L	8/4/00	4500-NO3F	0.010	1.0
pH	pH units	8/4/00	4500/9040B	0	7.40
Sulfate	mg/L	8/4/00	375.4	5.0	4,500
TDS	mg/L	8/4/00	2540C	10	46,000
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	1.7

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42190-03A  
Field Sample ID: **GW-57**  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 9, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42190-03B  
Field Sample ID: **GW-57**  
Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 10, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42190-03B  
Field Sample ID: **GW-57**  
Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-08A

Field Sample ID:  
GW-57A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	0.020
Barium	mg/L	8/25/00	6010B	0.0040	0.012
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	0.44
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: Ile. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-04C

Field Sample ID:  
GW-27

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO3)	mg/L	8/4/00	2320 B	10	<b>150</b>
Carbonate (As CaCO3)	mg/L	8/4/00	2320 B	10	< 10
Chloride	mg/L	8/4/00	4500-CL B	5.0	<b>29,000</b>
Conductivity	µmhos/cm	8/4/00	2510B	10	<b>60,000</b>
Cyanide	mg/L	8/8/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>4.2</b>
Ion Balance		8/21/00		0	-0.27
Nitrate (as N)	mg/L	8/4/00	4500-NO3F	0.010	<b>0.65</b>
Nitrate/Nitrite (as N)	mg/L	8/4/00	4500-NO3F	0.010	<b>0.65</b>
pH	pH units	8/4/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	8/4/00	375.4	5.0	<b>4,700</b>
TDS	mg/L	8/4/00	2540C	10	<b>52,000</b>
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	<b>1.1</b>

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-04D

Field Sample ID:  
GW-27

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	680
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	1,000
Potassium	mg/L	8/15/00	6010B	0.10	560
Sodium	mg/L	8/15/00	6010B	0.10	18,000

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Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-04C

Field Sample ID:  
GW-27

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.078</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.74</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42190-04A

Field Sample ID: GW-27

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 9, 2000  
Extracted: August 7, 2000

Analysis Requested: Semi Volatiles by SW 8270B


Lab Sample ID: L42190-04B  
Field Sample ID: GW-27  
Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 12, 2000  
Extracted: August 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42190-04B  
Field Sample ID: **GW-27**  
Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 3, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 4, 2000

Lab Sample ID:  
L42190-09A

Field Sample ID:  
GW-27A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.075</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/8/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/20/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.77</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/8/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 3, 2000  
Received: August 4, 2000

Contact: Jeff Low  
Analyzed: August 7, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42190-05A  
Field Sample ID: **Trip Blank**  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2) Exceedance Samples

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42221-01A

Field Sample ID:  
GW-25A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.10</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.012</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/10/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/22/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.24</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/11/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2) Exceedance Samples

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42221-02A

Field Sample ID:  
GW-26A

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.16</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.0060</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/10/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/22/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.55</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/11/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-01C

Field Sample ID:  
GW-26

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	100
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	< 10
Chloride	mg/L	8/9/00	4500-CL B	5.0	29,000
Conductivity	µmhos/cm	8/8/00	2510B	10	51,000
Cyanide	mg/L	8/9/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	4.0
Ion Balance		8/22/00		0	3.0
Nitrate (as N)	mg/L	8/9/00	4500-NO3F	0.10	2.5
Nitrate/Nitrite (as N)	mg/L	8/9/00	4500-NO3F	0.10	2.5
pH	pH units	8/8/00	4500/9040B	0	7.30
Sulfate	mg/L	8/10/00	375.4	5.0	5,000
TDS	mg/L	8/9/00	2540C	10	57,000
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	1.8

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 15, 2000  
Extracted: August 13, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42222-01B  
Field Sample ID: **GW-26**  
Site ID: 11e (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 16, 2000  
Extracted: August 14, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42222-01B  
Field Sample ID: GW-26  
Site ID: 11e (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

\* Low Quality Control recoveries were observed. Re-extraction and analysis confirmed no target analytes above the detection limits.

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 21, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42222-01A  
Field Sample ID: GW-26  
Site ID: 11e (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-01D

Field Sample ID:  
GW-26

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	820
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	1,200
Potassium	mg/L	8/15/00	6010B	0.10	580
Sodium	mg/L	8/15/00	6010B	0.10	19,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-01C

Field Sample ID:  
GW-26

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.17</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.0060</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/10/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/22/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.58</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/11/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-02C

Field Sample ID:  
GW-25

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	<b>200</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	< 10
Chloride	mg/L	8/9/00	4500-CL B	5.0	<b>30,000</b>
Conductivity	µmhos/cm	8/8/00	2510B	10	<b>45,000</b>
Cyanide	mg/L	8/9/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.8</b>
Ion Balance		8/22/00		0	<b>0.31</b>
Nitrate (as N)	mg/L	8/9/00	4500-NO3F	0.10	<
Nitrate/Nitrite (as N)	mg/L	8/9/00	4500-NO3F	0.10	<
pH	pH units	8/8/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	8/10/00	375.4	5.0	<b>3,500</b>
TDS	mg/L	8/9/00	2540C	10	<b>43,000</b>
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	<b>1.3</b>

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*[Signature]*

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 15, 2000  
Extracted: August 13, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42222-02B  
Field Sample ID: **GW-25**  
Site ID: 11e (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 16, 2000  
Extracted: August 14, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42222-02B

Field Sample ID: **GW-25**

Site ID: 11e (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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84115

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 21, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42222-02A

Field Sample ID: **GW-25**

Site ID: 11e (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 7, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 21, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42222-03A

Field Sample ID: Trip Blank

Site ID: 11e (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-02D

Field Sample ID:  
GW-25

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	610
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	950
Potassium	mg/L	8/15/00	6010B	0.10	610
Sodium	mg/L	8/15/00	6010B	0.10	18,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 7, 2000  
Project: 11e (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42222-02C

Field Sample ID:  
GW-25

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.098</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.012</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/10/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/22/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.25</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/11/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42241-01A

Field Sample ID:  
GW-20

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.028</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.010</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/9/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.18</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/9/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42241-02A

Field Sample ID:  
GW-24

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.026</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.018</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/9/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.19</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/9/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-01C

Field Sample ID:  
GW-20

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	<b>180</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	< 10
Chloride	mg/L	8/9/00	4500-CL B	5.0	<b>32,000</b>
Conductivity	µmhos/cm	8/9/00	2510B	10	<b>52,000</b>
Cyanide	mg/L	8/9/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.6</b>
Ion Balance		8/22/00		0	-3.8
Nitrate (as N)	mg/L	8/9/00	4500-NO <sub>3</sub> F	0.10	<b>1.9</b>
Nitrate/Nitrite (as N)	mg/L	8/9/00	4500-NO <sub>3</sub> F	0.10	<b>1.9</b>
pH	pH units	8/9/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	8/10/00	375.4	5.0	<b>3,500</b>
TDS	mg/L	8/9/00	2540C	10	<b>51,000</b>
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	<b>1.9</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-01D

Field Sample ID:  
GW-20

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/9/00	6010B	0.10	<b>650</b>
Iron	mg/L	8/9/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/9/00	6010B	0.10	<b>930</b>
Potassium	mg/L	8/9/00	6010B	0.10	<b>610</b>
Sodium	mg/L	8/9/00	6010B	0.10	<b>18,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-01C

Field Sample ID:  
GW-20

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.026</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.010</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/9/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.17</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/9/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 22, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42242-01A  
Field Sample ID: GW-20  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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*[Signature]*

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 15, 2000  
Extracted: August 13, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42242-01B  
Field Sample ID: GW-20  
Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 16, 2000  
Extracted: August 14, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42242-01B

Field Sample ID: **GW-20**

Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-02C

Field Sample ID:  
GW-24

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	230
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/9/00	2320 B	10	< 10
Chloride	mg/L	8/9/00	4500-CL B	5.0	26,000
Conductivity	µmhos/cm	8/9/00	2510B	10	45,000
Cyanide	mg/L	8/9/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	3.5
Ion Balance		8/22/00		0	-6.8
Nitrate (as N)	mg/L	8/9/00	4500-NO <sub>3</sub> F	0.10	1.2
Nitrate/Nitrite (as N)	mg/L	8/9/00	4500-NO <sub>3</sub> F	0.10	1.2
pH	pH units	8/9/00	4500/9040B	0	7.30
Sulfate	mg/L	8/10/00	375.4	5.0	3,000
TDS	mg/L	8/9/00	2540C	10	39,000
Total Organic Carbon	mg/L	8/9/00	5310C	1.0	1.7

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-02D

Field Sample ID:  
GW-24

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/9/00	6010B	0.10	440
Iron	mg/L	8/9/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/9/00	6010B	0.10	660
Potassium	mg/L	8/9/00	6010B	0.10	490
Sodium	mg/L	8/9/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 8, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 8, 2000

Lab Sample ID:  
L42242-02C

Field Sample ID:  
GW-24

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/9/00	7060A	0.010	<b>0.028</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.016</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/9/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.19</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/9/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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Report Date:

August 28, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 22, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42242-02A

Field Sample ID: GW-24

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

Released by: Paul D. G.

Laboratory Supervisor

Report Date:

August 24, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 15, 2000  
Extracted: August 13, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42242-02B  
Field Sample ID: **GW-24**  
Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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*Rue D. Sk*

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 16, 2000  
Extracted: August 14, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42242-02B  
Field Sample ID: **GW-24**  
Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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Report Date:

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 8, 2000  
Received: August 8, 2000

Contact: Jeff Low  
Analyzed: August 22, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42242-03A

Field Sample ID: Trip Blank

Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 10, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received August 10, 2000

Lab Sample ID:  
L42270-01C

Field Sample ID:  
GW-29

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	8/16/00	7060A	0.010	<b>0.032</b>
Barium	mg/L	8/25/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/16/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	<b>0.21</b>
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/16/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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Report Date:

August 30, 2000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 10, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 10, 2000

Lab Sample ID:  
L42270-01D

Field Sample ID:  
GW-29

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	8/15/00	6010B	0.10	520
Iron	mg/L	8/15/00	6010B	0.10	< 0.10
Magnesium	mg/L	8/15/00	6010B	0.10	800
Potassium	mg/L	8/15/00	6010B	0.10	510
Sodium	mg/L	8/15/00	6010B	0.10	16,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 10, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received: August 10, 2000

Lab Sample ID:  
L42270-01C

Field Sample ID:  
GW-29

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	8/11/00	2320 B	10	<b>290</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	8/11/00	2320 B	10	< 10
Chloride	mg/L	8/11/00	4500-CL B	5.0	<b>28,000</b>
Conductivity	µmhos/cm	8/11/00	2510B	10	<b>61,000</b>
Cyanide	mg/L	8/14/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	8/15/00	4500-FD	0.50	<b>3.7</b>
Ion Balance		8/25/00		0	-3.2
Nitrate (as N)	mg/L	8/11/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	8/11/00	4500-NO3F	0.10	< 0.10
pH	pH units	8/11/00	4500/9040B	0	<b>7.50</b>
Sulfate	mg/L	8/11/00	375.4	5.0	<b>2,800</b>
TDS	mg/L	8/11/00	2540C	10	<b>42,000</b>
Total Organic Carbon	mg/L	8/11/00	5310C	1.0	<b>1.3</b>

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Report Date:

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 10, 2000  
Received: August 10, 2000

Contact: Jeff Low  
Analyzed: August 24, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42270-01A  
Field Sample ID: **GW-29**  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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Report Date:

August 29, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 10, 2000  
Received: August 10, 2000

Contact: Jeff Low  
Analyzed: August 24, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42270-02A  
Field Sample ID: Trip Blank  
Site ID: 11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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Report Date:

August 29, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 10, 2000  
Received: August 10, 2000

Contact: Jeff Low  
Analyzed: August 15, 2000  
Extracted: August 13, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42270-01B

Field Sample ID: **GW-29**

Site ID: 11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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Laboratory Supervisor

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: August 10, 2000  
Received: August 10, 2000

Contact: Jeff Low  
Analyzed: August 16, 2000  
Extracted: August 14, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42270-01B

Field Sample ID: GW-29

Site ID: 11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

Released by: Paul D. [Signature]

Laboratory Supervisor

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: August 10, 2000  
Project: 11e. (2)

Contact: Jeff Low  
Date Received August 10, 2000

Lab Sample ID:  
L42271-01A

Field Sample ID:  
GW-29A

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### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	8/16/00	7060A	0.010	0.031
Barium	mg/L	8/25/00	6010B	0.0040	0.020
Beryllium	mg/L	8/25/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	8/25/00	6010B	0.0040	< 0.0040
Chromium	mg/L	8/25/00	6010B	0.0050	< 0.0050
Copper	mg/L	8/25/00	6010B	0.0080	< 0.0080
Lead	mg/L	8/16/00	7421	0.0050	< 0.0050
Mercury	mg/L	8/23/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	8/25/00	6010B	0.040	0.21
Nickel	mg/L	8/25/00	6010B	0.010	< 0.010
Selenium	mg/L	8/16/00	7740	0.0050	< 0.0050
Silver	mg/L	8/25/00	6010B	0.0050	< 0.0050
Zinc	mg/L	8/25/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-01A

Field Sample ID:  
GW-88

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	<b>200</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	10/4/00	2510B	10	<b>47,000</b>
Cyanide	mg/L	10/10/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	10/10/00	4500-FD	1.0	<b>3.8</b>
Ion Balance		10/23/00		0	< 0
Nitrate (as N)	mg/L	10/4/00	4500-NO3F	0.10	<b>1.2</b>
Nitrate/Nitrite (as N)	mg/L	10/4/00	4500-NO3F	0.10	<b>1.2</b>
pH	pH units	10/4/00	4500/9040B	0	<b>7.50</b>
Sulfate	mg/L	10/6/00	375.4	5.0	<b>3,100</b>
TDS	mg/L	10/10/00	2540C	10	<b>30,000</b>
Total Organic Carbon	mg/L	10/5/00	5310C	1.0	< 1.0
TOX	mg/L	10/4/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	<b>210</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-01B

Field Sample ID:  
GW-88

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	390
Iron	mg/L	10/18/00	6010B	0.10	0.20
Magnesium	mg/L	10/18/00	6010B	0.10	590
Potassium	mg/L	10/18/00	6010B	0.10	520
Sodium	mg/L	10/18/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-01A

Field Sample ID:  
GW-88

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.041</b>
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.020	< 0.020
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.010	< 0.010
Mercury	mg/L	10/12/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	10/19/00	6010B	0.040	<b>0.10</b>
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.010	<b>0.020</b>
Silver	mg/L	10/19/00	6010B	0.010	< 0.010
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-02B

Field Sample ID:  
GW-89

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	430
Iron	mg/L	10/18/00	6010B	0.10	0.20
Magnesium	mg/L	10/18/00	6010B	0.10	620
Potassium	mg/L	10/18/00	6010B	0.10	560
Sodium	mg/L	10/18/00	6010B	0.10	15,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-02A

Field Sample ID:  
GW-89

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	0.020
Barium	mg/L	10/19/00	6010B	0.0040	0.050
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.020	< 0.020
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.010	< 0.010
Mercury	mg/L	10/12/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	10/19/00	6010B	0.040	0.060
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.010	< 0.010
Silver	mg/L	10/19/00	6010B	0.010	< 0.010
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-02A

Field Sample ID:  
GW-89

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	220
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	24,000
Conductivity	µmhos/cm	10/4/00	2510B	10	47,000
Cyanide	mg/L	10/10/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	10/10/00	4500-FD	1.0	3.3
Ion Balance		10/23/00		0	1.2
Nitrate (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.40
Nitrate/Nitrite (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.42
pH	pH units	10/4/00	4500/9040B	0	7.40
Sulfate	mg/L	10/6/00	375.4	5.0	2,000
TDS	mg/L	10/10/00	2540C	10	39,000
Total Organic Carbon	mg/L	10/5/00	5310C	1.0	< 1.0
TOX	mg/L	10/4/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	200

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-03B

Field Sample ID:  
GW-90

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	<b>450</b>
Iron	mg/L	10/18/00	6010B	0.10	<b>0.20</b>
Magnesium	mg/L	10/18/00	6010B	0.10	<b>620</b>
Potassium	mg/L	10/18/00	6010B	0.10	<b>490</b>
Sodium	mg/L	10/18/00	6010B	0.10	<b>13,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-03A

Field Sample ID:  
GW-90

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	0.030
Barium	mg/L	10/19/00	6010B	0.0040	0.039
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.020	< 0.020
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.010	< 0.010
Mercury	mg/L	10/12/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	10/19/00	6010B	0.040	0.040
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.010	0.030
Silver	mg/L	10/19/00	6010B	0.010	< 0.010
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

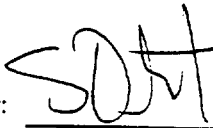
Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-03A

Field Sample ID:  
GW-90

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	270
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	10/4/00	2510B	10	44,000
Cyanide	mg/L	10/10/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	10/10/00	4500-FD	1.0	3.7
Ion Balance		10/23/00		0	-1.3
Nitrate (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.39
Nitrate/Nitrite (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.39
pH	pH units	10/4/00	4500/9040B	0	7.30
Sulfate	mg/L	10/6/00	375.4	5.0	2,100
TDS	mg/L	10/10/00	2540C	10	39,000
Total Organic Carbon	mg/L	10/5/00	5310C	1.0	< 1.0
TOX	mg/L	10/4/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	180

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# INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-03A

Field Sample ID:  
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## DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	10/18/00	7060A	0.010	0.030
Barium	mg/L	10/19/00	6010B	0.0040	0.039
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.020	< 0.020
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.010	< 0.010
Mercury	mg/L	10/12/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	10/19/00	6010B	0.040	0.040
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.010	0.030
Silver	mg/L	10/19/00	6010B	0.010	< 0.010
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-03A

Field Sample ID:  
GW-90

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	270
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	10/4/00	2510B	10	44,000
Cyanide	mg/L	10/10/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	10/10/00	4500-FD	1.0	3.7
Ion Balance		10/23/00		0	-1.3
Nitrate (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.39
Nitrate/Nitrite (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.39
pH	pH units	10/4/00	4500/9040B	0	7.30
Sulfate	mg/L	10/6/00	375.4	5.0	2,100
TDS	mg/L	10/10/00	2540C	10	39,000
Total Organic Carbon	mg/L	10/5/00	5310C	1.0	< 1.0
TOX	mg/L	10/4/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	180

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-04B

Field Sample ID:  
GW-91

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	550
Iron	mg/L	10/18/00	6010B	0.10	0.20
Magnesium	mg/L	10/18/00	6010B	0.10	740
Potassium	mg/L	10/18/00	6010B	0.10	530
Sodium	mg/L	10/18/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received October 3, 2000

Lab Sample ID:  
L42939-04A

Field Sample ID:  
GW-91

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.036</b>
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.020	< 0.020
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.010	< 0.010
Mercury	mg/L	10/12/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	10/19/00	6010B	0.040	<b>0.10</b>
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.010	<b>0.020</b>
Silver	mg/L	10/19/00	6010B	0.010	< 0.010
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 3, 2000  
Project: LARW / 2nd Semi

Contact: Jeff Low  
Date Received: October 3, 2000

Lab Sample ID:  
L42939-04A

Field Sample ID:  
GW-91

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/6/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	26,000
Conductivity	µmhos/cm	10/4/00	2510B	10	47,000
Cyanide	mg/L	10/10/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	10/10/00	4500-FD	1.0	3.8
Ion Balance		10/23/00		0	-2.1
Nitrate (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.34
Nitrate/Nitrite (as N)	mg/L	10/4/00	4500-NO3F	0.10	0.34
pH	pH units	10/4/00	4500/9040B	0	7.50
Sulfate	mg/L	10/6/00	375.4	5.0	2,800
TDS	mg/L	10/10/00	2540C	10	46,000
Total Organic Carbon	mg/L	10/5/00	5310C	1.0	< 1.0
TOX	mg/L	10/4/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	210

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah    Contact: Jeff Low  
Date Sampled: September 19, 2000    Date Received September 19, 2000  
Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:  
L42743-01A

Field Sample ID:  
GW-19A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/3/00	7060A	0.010	<b>0.068</b>
Barium	mg/L	10/3/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/3/00	6010B	0.0050	< 0.0050
Selenium	mg/L	10/6/00	7740	0.0050	< 0.0050

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*R. D. [Signature]*  
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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: September 19, 2000  
Project: 11e. (2) (Probable Out-of-Compliances)

Contact: Jeff Low  
Date Received September 19, 2000

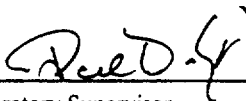
Lab Sample ID:  
L42743-02A

Field Sample ID:  
GW-602

**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/3/00	7060A	0.010	<b>0.076</b>
Barium	mg/L	10/3/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/3/00	6010B	0.0050	< 0.0050
Selenium	mg/L	10/6/00	7740	0.0050	< 0.0050

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Client: Envirocare of Utah  
Date Sampled: September 19, 2000  
Project: 11e. (2) (Probable Out-of-Compliances)

Contact: Jeff Low  
Date Received September 19, 2000

Lab Sample ID:  
L42743-03A

Field Sample ID:  
GW-63

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Total Organic Carbon	mg/L	9/21/00	5310C	1.0	< 1.0

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Date Sampled: September 19, 2000

Date Received September 19, 2000

Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:

L42743-03A

Field Sample ID:

GW-63

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Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/3/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/3/00	6010B	0.0050	< 0.0050

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Report Date:

October 26, 2000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Date Sampled: September 19, 2000

Date Received September 19, 2000

Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:

L42743-05A

Field Sample ID:

GW-60

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Total Organic Carbon	mg/L	9/21/00	5310C	1.0	< 1.0

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Date Sampled: September 19, 2000

Date Received September 19, 2000

Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:

Field Sample ID:

L42743-05A

GW-60

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/3/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/3/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Date Sampled: September 19, 2000

Date Received September 19, 2000

Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:

L42743-04A

Field Sample ID:

GW-603

463 West 3600 South  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Total Organic Carbon	mg/L	9/21/00	5310C	1.0	< 1.0

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah                      Contact: Jeff Low  
Date Sampled: September 19, 2000              Date Received: September 19, 2000  
Project: 11e. (2) (Probable Out-of-Compliances)  
Lab Sample ID:                                      Field Sample ID:  
L42743-04A    GW-603

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/3/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/3/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Date Sampled: September 19, 2000

Date Received September 19, 2000

Project: 11e. (2) (Probable Out-of-Compliances)

Lab Sample ID:

Field Sample ID:

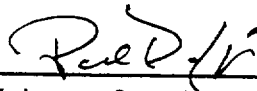
L42743-06A

GW-26

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/3/00	7060A	0.010	<b>0.24</b>

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: September 21, 2000  
Project: LARW / 11e. (2) Probable Out-of-Compliance

Contact: Jeff Low  
Date Received September 21, 2000

Lab Sample ID:  
L42783-01A

Field Sample ID:  
GW-37

463 West 3600 South  
Salt Lake City, Utah  
84115

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Total Organic Carbon	mg/L	9/22/00	5310C	1.0	2.2

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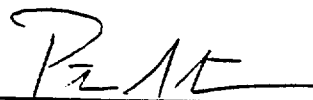
## INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES  
Client: Envirocare of Utah  
Date Sampled: September 21, 2000  
Project: LARW / 11e. (2) Probable Out-of-Compliance  
Contact: Jeff Low  
Date Received: September 21, 2000  
Lab Sample ID: L42783-02A  
Field Sample ID: GW-64

463 West 3600 South Salt Lake City, Utah 84115	<b>Analytical Results</b>	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
	Total Organic Carbon	mg/L	9/22/00	5310C	1.0	1.5

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: September 21, 2000  
Project: LARW / 11e. (2) Probable Out-of-Compliance

Contact: Jeff Low  
Date Received: September 21, 2000

Lab Sample ID:  
L42783-03A

Field Sample ID:  
I-2-30

463 West 3600 South  
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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Total Organic Carbon	mg/L	9/22/00	5310C	1.0	1.3

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 4, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42960-01A

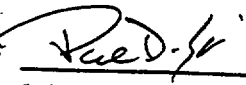
Field Sample ID:  
GW-19A

463 West 3600 South  
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### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/20/00	7060A	0.010	<b>0.050</b>
Chromium	mg/L	10/20/00	6010B	0.0050	< 0.0050
Selenium	mg/L	10/20/00	7740	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 4, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42960-02A

Field Sample ID:  
GW-601

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/20/00	7060A	0.010	<b>0.050</b>
Chromium	mg/L	10/20/00	6010B	0.0050	< 0.0050
Selenium	mg/L	10/20/00	7740	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 4, 2000  
Project: 11e. (2) 4th

Contact: Jeff Low  
Date Received: October 5, 2000

Lab Sample ID:  
L42961-01C

Field Sample ID:  
GW-19A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	<b>0.060</b>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.034</b>
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/17/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/19/00	6010B	0.040	<b>0.83</b>
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.0050	<b>0.030</b>
Silver	mg/L	10/19/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 4, 2000  
Project: 11e. (2) 4th

Contact: Jeff Low  
Date Received: October 5, 2000

Lab Sample ID:  
L42961-01D

Field Sample ID:  
GW-19A

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	<b>1,100</b>
Iron	mg/L	10/18/00	6010B	0.10	< 0.10
Magnesium	mg/L	10/18/00	6010B	0.10	<b>1,600</b>
Potassium	mg/L	10/18/00	6010B	0.10	<b>640</b>
Sodium	mg/L	10/18/00	6010B	0.10	<b>21,000</b>

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Report Date:

October 30, 2000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 4, 2000  
Project: 11e. (2) 4th

Contact: Jeff Low  
Date Received: October 5, 2000

Lab Sample ID:  
L42961-01C

Field Sample ID:  
GW-19A

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO3)	mg/L	10/10/00	2320 B	10	120
Carbonate (As CaCO3)	mg/L	10/10/00	2320 B	10	< 10
Chloride	mg/L	10/6/00	4500-CL B	5.0	36,000
Conductivity	µmhos/cm	10/9/00	2510B	10	80,000
Cyanide	mg/L	10/17/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/10/00	4500-FD	0.50	7.4
Ion Balance		10/23/00		0	4.6
Nitrate (as N)	mg/L	10/6/00	4500-NO3F	0.10	2.1
Nitrate/Nitrite (as N)	mg/L	10/6/00	4500-NO3F	0.10	2.1
pH	pH units	10/6/00	4500/9040B	0	7.10
Sulfate	mg/L	10/6/00	375.4	5.0	7,000
TDS	mg/L	10/10/00	2540C	10	58,000
Total Organic Carbon	mg/L	10/10/00	5310C	1.0	< 1.0
TOX	mg/L	10/11/00	9020B	0.050	< 0.050
TSS	mg/L	10/10/00	2540D	10	340

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 4, 2000  
Received: October 5, 2000

Contact: Jeff Low  
Analyzed: October 17, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42961-01A

Field Sample ID: **GW-19A**


Site ID: 11e. (2) 4th

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 4, 2000  
Received: October 5, 2000

Contact: Jeff Low  
Analyzed: October 10, 2000  
Extracted: October 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42961-01B

Field Sample ID: **GW-19A**

Site ID: 11e. (2) 4th

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Collected: October 4, 2000

Received: October 5, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42961-01B

Field Sample ID: GW-19A

Site ID: 11e. (2) 4th

Contact: Jeff Low

Analyzed: October 12, 2000

Extracted: October 9, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th


Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42982-01C

Field Sample ID:  
GW-63

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	10/18/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.033</b>
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/16/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/19/00	6010B	0.040	<b>0.21</b>
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.0050	< 0.0050
Silver	mg/L	10/19/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42982-02C

Field Sample ID:  
GW-707

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	10/18/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.026</b>
Beryllium	mg/L	10/19/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/19/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/19/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/19/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/17/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/16/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/19/00	6010B	0.040	<b>0.26</b>
Nickel	mg/L	10/19/00	6010B	0.010	< 0.010
Selenium	mg/L	10/17/00	7740	0.0050	< 0.0050
Silver	mg/L	10/19/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/19/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th

Contact: Jeff Low  
Date Received: October 5, 2000

Lab Sample ID:  
L42982-01D

Field Sample ID:  
GW-63

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	390
Iron	mg/L	10/18/00	6010B	0.10	0.10
Magnesium	mg/L	10/18/00	6010B	0.10	620
Potassium	mg/L	10/18/00	6010B	0.10	460
Sodium	mg/L	10/18/00	6010B	0.10	12,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th

Contact: Jeff Low  
Date Received: October 5, 2000

Lab Sample ID:  
L42982-02D

Field Sample ID:  
GW-707

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	10/18/00	6010B	0.10	<b>380</b>
Iron	mg/L	10/18/00	6010B	0.10	<b>0.20</b>
Magnesium	mg/L	10/18/00	6010B	0.10	<b>610</b>
Potassium	mg/L	10/18/00	6010B	0.10	<b>460</b>
Sodium	mg/L	10/18/00	6010B	0.10	<b>12,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42982-01C

Field Sample ID:  
GW-63

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/10/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/10/00	2320 B	10	< 10
Chloride	mg/L	10/9/00	4500-CL B	5.0	21,000
Conductivity	µmhos/cm	10/9/00	2510B	10	56,000
Cyanide	mg/L	10/17/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/10/00	4500-FD	0.50	3.7
Ion Balance		10/23/00		0	-3.6
Nitrate (as N)	mg/L	10/6/00	4500-NO <sub>3</sub> F	0.10	0.28
Nitrate/Nitrite (as N)	mg/L	10/6/00	4500-NO <sub>3</sub> F	0.10	0.28
pH	pH units	10/9/00	4500/9040B	0	7.30
Sulfate	mg/L	10/9/00	375.4	5.0	2,600
TDS	mg/L	10/10/00	2540C	10	34,000
Total Organic Carbon	mg/L	10/10/00	5310C	1.0	< 1.0
TOX	mg/L	10/11/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: LARW/11e. (2) 4th

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42982-02C

Field Sample ID:  
GW-707

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO3)	mg/L	10/10/00	2320 B	10	160
Carbonate (As CaCO3)	mg/L	10/10/00	2320 B	10	< 10
Chloride	mg/L	10/9/00	4500-CL B	5.0	20,000
Conductivity	µmhos/cm	10/9/00	2510B	10	55,000
Cyanide	mg/L	10/17/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/10/00	4500-FD	0.50	3.8
Ion Balance		10/23/00		0	-1.6
Nitrate (as N)	mg/L	10/6/00	4500-NO3F	0.10	0.27
Nitrate/Nitrite (as N)	mg/L	10/6/00	4500-NO3F	0.10	0.27
pH	pH units	10/9/00	4500/9040B	0	7.50
Sulfate	mg/L	10/9/00	375.4	5.0	2,700
TDS	mg/L	10/10/00	2540C	10	32,000
Total Organic Carbon	mg/L	10/10/00	5310C	1.0	< 1.0
TOX	mg/L	10/11/00	9020B	0.050	< 0.050

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 5, 2000  
Received: October 5, 2000

Contact: Jeff Low  
Analyzed: October 17, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42982-01A

Field Sample ID: GW-63

Site ID: LARW/11e. (2) 4th

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Collected: October 5, 2000

Analyzed: October 17, 2000

Received: October 5, 2000

Analysis Requested: Purge & Trap by GC/MS SW846 #8260B/5030A

Lab Sample ID: L42982-02A

Field Sample ID: **GW-707**

Site ID: LARW/11e. (2) 4th

### Analytical Results


### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

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<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Collected: October 5, 2000

Received: October 5, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42982-01B

Field Sample ID: **GW-63**

Site ID: LARW/11e. (2) 4th

Contact: Jeff Low

Analyzed: October 12, 2000

Extracted: October 9, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 5, 2000  
Received: October 5, 2000

Contact: Jeff Low  
Analyzed: October 12, 2000  
Extracted: October 9, 2000

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L42982-02B  
Field Sample ID: **GW-707**  
Site ID: LARW/11e. (2) 4th


### Analytical Results

### Semi Volatile Organics by GC/MS

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Collected: October 5, 2000

Analyzed: October 10, 2000

Received: October 5, 2000

Extracted: October 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42982-01B

Field Sample ID: **GW-63**

Site ID: LARW/11e. (2) 4th

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 5, 2000  
Received: October 5, 2000

Contact: Jeff Low  
Analyzed: October 10, 2000  
Extracted: October 7, 2000

Analysis Requested: Pesticides by EPA SW-846 #8081/3510B

Lab Sample ID: L42982-02B  
Field Sample ID: **GW-707**  
Site ID: LARW/11e. (2) 4th

**Analytical Results**

**PESTICIDES**

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

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Client: Envirocare of Utah  
Date Sampled: October 5, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received October 5, 2000

Lab Sample ID:  
L42983-01A

Field Sample ID:  
GW-63A

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### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/19/00	6010B	0.0040	<b>0.031</b>

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43169-01A  
Field Sample ID: **GW-60**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43169-01B  
Field Sample ID: **GW-60**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43169-01B  
Field Sample ID: **GW-60**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43169-01C

Field Sample ID:  
GW-60

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	<b>180</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	< 10
Chloride	mg/L	10/20/00	4500-CL B	5.0	<b>24,000</b>
Conductivity	µmhos/cm	10/19/00	2510B	10	<b>72,000</b>
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	<b>2.5</b>
Ion Balance		11/20/00		0	-3.1
Nitrate (as N)	mg/L	10/19/00	4500-NO3F	0.10	<b>0.47</b>
Nitrate/Nitrite (as N)	mg/L	10/19/00	4500-NO3F	0.10	<b>0.47</b>
pH	pH units	10/19/00	4500/9040B	0	<b>7.44</b>
Sulfate	mg/L	10/20/00	375.4	5.0	<b>3,200</b>
TDS	mg/L	10/20/00	2540C	10	<b>43,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-01D

Field Sample ID:  
GW-60

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	490
Iron	mg/L	11/1/00	6010B	0.10	0.10
Magnesium	mg/L	11/1/00	6010B	0.10	680
Potassium	mg/L	11/1/00	6010B	0.10	480
Sodium	mg/L	11/1/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-01C

Field Sample ID:  
GW-60

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	<b>0.013</b>
Lead	mg/L	10/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.21</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43169-02A  
Field Sample ID: **GW-58**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43169-02B  
Field Sample ID: **GW-58**  
Site ID: 11e. (2) / 4th Sample

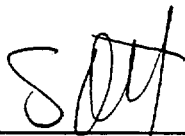
Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43169-02B  
Field Sample ID: **GW-58**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-02D

Field Sample ID:  
GW-58

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	550
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	770
Potassium	mg/L	11/1/00	6010B	0.10	510
Sodium	mg/L	11/1/00	6010B	0.10	15,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43169-02C

Field Sample ID:  
GW-58

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.15</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.023</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	<b>0.015</b>
Lead	mg/L	10/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.31</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43169-03A  
Field Sample ID: **GW-302**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43169-03B  
Field Sample ID: **GW-302**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43169-03B  
Field Sample ID: **GW-302**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 23, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

\* High recovery(ies) indicate high bias. Data deemed acceptable as no target analytes were observed in the field samples.

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-03C

Field Sample ID:  
GW-302

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	<b>130</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	< 10
Chloride	mg/L	10/20/00	4500-CL B	5.0	<b>29,000</b>
Conductivity	µmhos/cm	10/19/00	2510B	10	<b>65,000</b>
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	<b>3.0</b>
Ion Balance		11/20/00		0	-8.4
Nitrate (as N)	mg/L	10/19/00	4500-NO <sub>3</sub> F	0.10	<b>1.3</b>
Nitrate/Nitrite (as N)	mg/L	10/19/00	4500-NO <sub>3</sub> F	0.10	<b>1.3</b>
pH	pH units	10/19/00	4500/9040B	0	<b>7.52</b>
Sulfate	mg/L	10/20/00	375.4	5.0	<b>3,700</b>
TDS	mg/L	10/20/00	2540C	10	<b>41,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-03D

Field Sample ID:  
GW-302

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>560</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>780</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>510</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>15,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-03C

Field Sample ID:  
GW-302

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.15</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.022</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	<b>0.013</b>
Lead	mg/L	10/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.31</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43169-04A  
Field Sample ID: **GW-28**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43169-04B  
Field Sample ID: **GW-28**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43169-04B  
Field Sample ID: **GW-28**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

**Analytical Results**

**PESTICIDES**

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

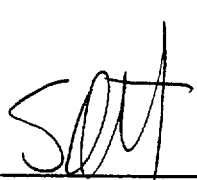
Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-04C

Field Sample ID:  
GW-28

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	<b>150</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	< 10
Chloride	mg/L	10/20/00	4500-CL B	5.0	<b>25,000</b>
Conductivity	µmhos/cm	10/19/00	2510B	10	<b>62,000</b>
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	<b>3.1</b>
Ion Balance		11/20/00		0	-5.4
Nitrate (as N)	mg/L	10/19/00	4500-NO <sub>3</sub> F	0.10	<b>0.35</b>
Nitrate/Nitrite (as N)	mg/L	10/19/00	4500-NO <sub>3</sub> F	0.10	<b>0.35</b>
pH	pH units	10/19/00	4500/9040B	0	7.48
Sulfate	mg/L	10/20/00	375.4	5.0	<b>3,600</b>
TDS	mg/L	10/20/00	2540C	10	<b>43,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-04D

Field Sample ID:  
GW-28

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>460</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>710</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>490</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>14,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43169-04C

Field Sample ID:  
GW-28

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.080</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.32</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43169-05A  
Field Sample ID: **GW-57**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbonylsulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43169-05B  
Field Sample ID: **GW-57**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 18, 2000  
Received: October 18, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43169-05B  
Field Sample ID: **GW-57**  
Site ID: 11e. (2) / 4th Sample

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43169-05C

Field Sample ID:  
GW-57

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	120
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/19/00	2320 B	10	< 10
Chloride	mg/L	10/20/00	4500-CL B	5.0	25,000
Conductivity	µmhos/cm	10/19/00	2510B	10	59,000
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	3.4
Ion Balance		11/20/00		0	-1.2
Nitrate (as N)	mg/L	10/19/00	4500-NO3F	0.10	0.86
Nitrate/Nitrite (as N)	mg/L	10/19/00	4500-NO3F	0.10	0.86
pH	pH units	10/19/00	4500/9040B	0	7.47
Sulfate	mg/L	10/20/00	375.4	5.0	4,400
TDS	mg/L	10/20/00	2540C	10	45,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43169-05D

Field Sample ID:  
GW-57

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>800</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>890</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>530</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>15,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) / 4th Sample

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43169-05C

Field Sample ID:  
GW-57

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.050</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	< 0.0080
Lead	mg/L	10/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.39</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43170-01A

Field Sample ID:  
GW-60A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.018</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43170-02A

Field Sample ID:  
GW-58A

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.022</b>
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received October 18, 2000

Lab Sample ID:  
L43170-03A

Field Sample ID:  
GW-28A

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### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.050</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43170-04A

Field Sample ID:  
GW-303

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.050</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 18, 2000  
Project: 11e. (2) Exceedance


Contact: Jeff Low  
Date Received: October 18, 2000

Lab Sample ID:  
L43170-05A

Field Sample ID:  
GW-57A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.021</b>
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43200-01A

Field Sample ID:  
GW-27A

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.080</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.023</b>
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43200-02A

Field Sample ID:  
GW-25A

### **TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.070</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.018</b>
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000

Contact: Jeff Low  
Analyzed: October 28, 2000

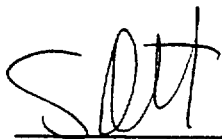
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43201-01A  
Field Sample ID: **GW-36**  
Site ID: LARW/11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43201-01B  
Field Sample ID: **GW-36**  
Site ID: LARW/11e. (2)

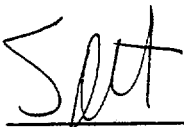
Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

Analysis Requested: 8081/3510B  
Lab Sample ID: L43201-01B  
Field Sample ID: GW-36  
Site ID: LARW/11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 19, 2000

Lab Sample ID:  
L43201-01C

Field Sample ID:  
GW-36

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO3)	mg/L	10/24/00	2320 B	10	<b>150</b>
Carbonate (As CaCO3)	mg/L	10/24/00	2320 B	10	< 10
Chloride	mg/L	10/24/00	4500-CL B	5.0	<b>21,000</b>
Conductivity	µmhos/cm	10/23/00	2510B	10	<b>68,000</b>
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	<b>2.6</b>
Ion Balance		11/22/00		0	<b>0.23</b>
Nitrate (as N)	mg/L	10/20/00	4500-NO3F	0.10	<b>1.2</b>
Nitrate/Nitrite (as N)	mg/L	10/20/00	4500-NO3F	0.10	<b>1.2</b>
pH	pH units	10/19/00	4500/9040B	0	<b>7.40</b>
Sulfate	mg/L	10/24/00	375.4	5.0	<b>2,500</b>
TDS	mg/L	10/20/00	2540C	10	<b>38,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-01D

Field Sample ID:  
GW-36

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>460</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>610</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>440</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>13,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-01C

Field Sample ID:  
GW-36

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	<b>0.0090</b>
Lead	mg/L	11/1/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.23</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/1/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43201-02A  
Field Sample ID: GW-27  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 28, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Collected: October 19, 2000

Received: October 19, 2000

Analysis Requested: 8270C

Lab Sample ID: L43201-02B

Field Sample ID: **GW-27**

Site ID: LARW/11e. (2)

Contact: Jeff Low

Analyzed: October 26, 2000

Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43201-02B  
Field Sample ID: GW-27  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-02C

Field Sample ID:  
GW-27

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/24/00	2320 B	10	150
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/24/00	2320 B	10	< 10
Chloride	mg/L	10/24/00	4500-CL B	5.0	27,000
Conductivity	µmhos/cm	10/23/00	2510B	10	73,000
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	3.6
Ion Balance		11/22/00		0	-2.2
Nitrate (as N)	mg/L	10/20/00	4500-NO3F	0.10	1.4
Nitrate/Nitrite (as N)	mg/L	10/20/00	4500-NO3F	0.10	1.4
pH	pH units	10/19/00	4500/9040B	0	7.20
Sulfate	mg/L	10/24/00	375.4	5.0	4,500
TDS	mg/L	10/20/00	2540C	10	48,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 19, 2000

Lab Sample ID:  
L43201-02D

Field Sample ID:  
GW-27

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>650</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>960</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>540</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>16,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-02C

Field Sample ID:  
GW-27

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.070</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.023</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/1/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.57</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/1/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000

Contact: Jeff Low  
Analyzed: October 31, 2000

Analysis Requested: 8260B/5030A  
Lab Sample ID: L43201-03A  
Field Sample ID: **GW-25**  
Site ID: LARW/11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43201-03B  
Field Sample ID: **GW-25**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 26, 2000  
Extracted: October 24, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 19, 2000  
Received: October 19, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43201-03B  
Field Sample ID: **GW-25**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 25, 2000  
Extracted: October 23, 2000

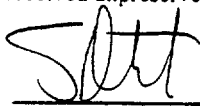
### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

The sample was received unpreserved.

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-03C

Field Sample ID:  
GW-25

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/24/00	2320 B	10	<b>190</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/24/00	2320 B	10	< 10
Chloride	mg/L	10/24/00	4500-CL B	5.0	<b>27,000</b>
Conductivity	µmhos/cm	10/23/00	2510B	10	<b>70,000</b>
Cyanide	mg/L	11/1/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	10/24/00	4500-FD	0.50	<b>3.4</b>
Ion Balance		11/22/00		0	-2.4
Nitrate (as N)	mg/L	10/20/00	4500-NO3F	0.10	<b>0.62</b>
Nitrate/Nitrite (as N)	mg/L	10/20/00	4500-NO3F	0.10	<b>0.62</b>
pH	pH units	10/19/00	4500/9040B	0	<b>7.20</b>
Sulfate	mg/L	10/24/00	375.4	5.0	<b>4,000</b>
TDS	mg/L	10/20/00	2540C	10	<b>43,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-03D

Field Sample ID:  
GW-25

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>560</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>850</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>570</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>16,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 19, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 19, 2000

Lab Sample ID:  
L43201-03C

Field Sample ID:  
GW-25

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/1/00	7060A	0.010	<b>0.060</b>
Barium	mg/L	10/31/00	6010B	0.0040	<b>0.018</b>
Beryllium	mg/L	10/31/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	10/31/00	6010B	0.0040	< 0.0040
Chromium	mg/L	10/31/00	6010B	0.0050	< 0.0050
Copper	mg/L	10/31/00	6010B	0.0080	<b>0.0090</b>
Lead	mg/L	11/1/00	7421	0.0050	< 0.0050
Mercury	mg/L	10/30/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	10/31/00	6010B	0.040	<b>0.23</b>
Nickel	mg/L	10/31/00	6010B	0.010	< 0.010
Selenium	mg/L	11/1/00	7740	0.0050	< 0.0050
Silver	mg/L	10/31/00	6010B	0.0050	< 0.0050
Zinc	mg/L	10/31/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43238-01A

Field Sample ID:  
GW-26A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.28</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.018</b>
Selenium	mg/L	11/7/00	7740	0.0050	<b>0.030</b>
Silver	mg/L	11/6/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2) Exceedance

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43238-03A

Field Sample ID:  
GW-20A

### **DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.019</b>
Silver	mg/L	11/6/00	6010B	0.0050	< 0.0050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2) Exceedance

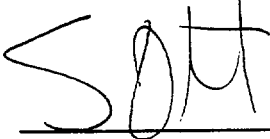
Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43238-04A

Field Sample ID:  
GW-24A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.022</b>

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43238-01B  
Field Sample ID: GW-26  
Site ID: LARW/11e. (2) Exceedance

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 25, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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### ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43238-02B  
Field Sample ID: **GW-401**  
Site ID: LARW/11e. (2) Exceedance

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 25, 2000

#### Analytical Results

#### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43239-01A  
Field Sample ID: **GW-26**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah

Contact: Jeff Low

Collected: October 23, 2000

Analyzed: October 31, 2000

Received: October 24, 2000

Extracted: October 30, 2000

Analysis Requested: 8270C

Lab Sample ID: L43239-01B

Field Sample ID: GW-26

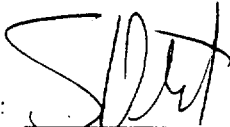
Site ID: LARW/11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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Report Date:

December 2, 2000

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43239-01B  
Field Sample ID: **GW-26**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 25, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 24, 2000

Lab Sample ID:  
L43239-01C

Field Sample ID:  
GW-26

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>100</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>29,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>89,000</b>
Cyanide	mg/L	11/7/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/6/00	4500-FD	0.50	<b>5.1</b>
Ion Balance		11/22/00		0	<b>1.5</b>
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	<b>2.4</b>
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	<b>2.4</b>
pH	pH units	10/24/00	4500/9040B	0	<b>7.37</b>
Sulfate	mg/L	10/30/00	375.4	5.0	<b>4,000</b>
TDS	mg/L	10/31/00	2540C	10	<b>54,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-01D

Field Sample ID:  
GW-26

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**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>830</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>1,100</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>590</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>18,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)


Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-01C

Field Sample ID:  
GW-26

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.29</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.018</b>
Beryllium	mg/L	11/6/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/6/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/6/00	6010B	0.0050	< 0.0050
Copper	mg/L	11/6/00	6010B	0.0080	<b>0.013</b>
Lead	mg/L	11/3/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/2/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	11/6/00	6010B	0.040	<b>0.58</b>
Nickel	mg/L	11/6/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	11/6/00	6010B	0.0050	< 0.0050
Zinc	mg/L	11/6/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43239-02A  
Field Sample ID: **GW-20**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43239-02B  
Field Sample ID: **GW-20**  
Site ID: LARW/11e. (2)

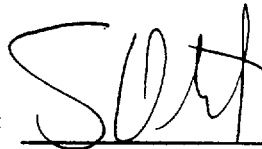
Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 30, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43239-02B  
Field Sample ID: **GW-20**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 25, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 24, 2000

Lab Sample ID:  
L43239-02C

Field Sample ID:  
GW-20

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	180
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	28,000
Conductivity	µmhos/cm	10/30/00	2510B	10	88,000
Cyanide	mg/L	11/7/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/6/00	4500-FD	0.50	4.7
Ion Balance		11/22/00		0	-2.0
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	1.9
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	1.9
pH	pH units	10/24/00	4500/9040B	0	7.25
Sulfate	mg/L	10/30/00	375.4	5.0	4,300
TDS	mg/L	10/31/00	2540C	10	45,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-02D

Field Sample ID:  
GW-20

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	570
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	800
Potassium	mg/L	11/1/00	6010B	0.10	530
Sodium	mg/L	11/1/00	6010B	0.10	17,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 24, 2000

Lab Sample ID:  
L43239-02C

Field Sample ID:  
GW-20

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.019</b>
Beryllium	mg/L	11/6/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/6/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/6/00	6010B	0.0050	< 0.0050
Copper	mg/L	11/6/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/3/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/2/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	11/6/00	6010B	0.040	<b>0.19</b>
Nickel	mg/L	11/6/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	11/6/00	6010B	0.0050	< 0.0050
Zinc	mg/L	11/6/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43239-03A  
Field Sample ID: **GW-24**  
Site ID: LARW/11e. (2)


Contact: Jeff Low  
Analyzed: October 31, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbendisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43239-03B  
Field Sample ID: **GW-24**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 30, 2000

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Analytical Results

Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: October 23, 2000  
Received: October 24, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43239-03B  
Field Sample ID: **GW-24**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: October 31, 2000  
Extracted: October 25, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 24, 2000


Lab Sample ID:  
L43239-03C

Field Sample ID:  
GW-24

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	<b>230</b>
Carbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>76,000</b>
Cyanide	mg/L	11/7/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/6/00	4500-FD	0.50	<b>4.1</b>
Ion Balance		11/22/00		0	-0.73
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	<b>1.1</b>
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	<b>1.1</b>
pH	pH units	10/24/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	10/30/00	375.4	5.0	<b>3,600</b>
TDS	mg/L	10/31/00	2540C	10	<b>40,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-03D

Field Sample ID:  
GW-24

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.10	<b>400</b>
Iron	mg/L	11/1/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/1/00	6010B	0.10	<b>590</b>
Potassium	mg/L	11/1/00	6010B	0.10	<b>460</b>
Sodium	mg/L	11/1/00	6010B	0.10	<b>14,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-03C

Field Sample ID:  
GW-24

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.022</b>
Beryllium	mg/L	11/6/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/6/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/6/00	6010B	0.0050	< 0.0050
Copper	mg/L	11/6/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/3/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/2/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	11/6/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	11/6/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.0050	< 0.0050
Silver	mg/L	11/6/00	6010B	0.0050	< 0.0050
Zinc	mg/L	11/6/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-04A

Field Sample ID:  
GW-23

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	280
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	24,000
Conductivity	µmhos/cm	10/30/00	2510B	10	82,000
Cyanide	mg/L	11/7/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	4.4
Ion Balance		11/22/00		0	-3.2
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	0.16
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	0.16
pH	pH units	10/24/00	4500/9040B	0	7.14
Sulfate	mg/L	10/30/00	375.4	5.0	3,100
TDS	mg/L	10/31/00	2540C	10	40,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	10/25/00	9020B	0.050	< 0.050

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Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received: October 24, 2000

Lab Sample ID:  
L43239-04B

Field Sample ID:  
GW-23

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/1/00	6010B	0.050	490
Iron	mg/L	11/1/00	6010B	0.010	< 0.010
Magnesium	mg/L	11/1/00	6010B	0.050	670
Potassium	mg/L	11/1/00	6010B	0.10	470
Sodium	mg/L	11/1/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 23, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received October 24, 2000

Lab Sample ID:  
L43239-04A

Field Sample ID:  
GW-23

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	11/6/00	6010B	0.0040	<b>0.022</b>
Beryllium	mg/L	11/6/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/6/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/6/00	6010B	0.020	< 0.020
Copper	mg/L	11/6/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/3/00	7421	0.010	< 0.010
Mercury	mg/L	11/2/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/6/00	6010B	0.040	<b>0.17</b>
Nickel	mg/L	11/6/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/6/00	6010B	0.010	< 0.010
Zinc	mg/L	11/6/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-01B

Field Sample ID:  
GW-22

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	410
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	580
Potassium	mg/L	11/14/00	6010B	0.10	440
Sodium	mg/L	11/14/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-01A

Field Sample ID:  
GW-22

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.030</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/5/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.050</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

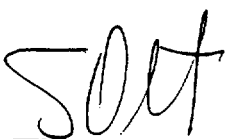
Lab Sample ID:  
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Field Sample ID:  
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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>350</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>74,000</b>
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	<b>3.6</b>
Ion Balance		11/22/00		0	<b>1.5</b>
Nitrate (as N)	mg/L	10/25/00	4500-NO <sub>3</sub> F	0.10	<b>0.39</b>
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO <sub>3</sub> F	0.10	<b>0.39</b>
pH	pH units	10/25/00	4500/9040B	0	<b>7.23</b>
Sulfate	mg/L	10/30/00	375.4	5.0	<b>2,000</b>
TDS	mg/L	10/31/00	2540C	10	<b>38,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/1/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

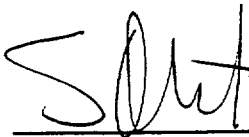
Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-02B

Field Sample ID:  
GW-81

TOTAL METALS		Date	Method	Reporting	Amount
Analytical Results	Units	Analyzed	Used	Limit	Detected
Calcium	mg/L	11/14/00	6010B	0.10	430
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	610
Potassium	mg/L	11/14/00	6010B	0.10	470
Sodium	mg/L	11/14/00	6010B	0.10	14,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

Lab Sample ID:  
L43270-02A

Field Sample ID:  
GW-81

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.040</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/5/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-02A

Field Sample ID:  
GW-81

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>150</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>19,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>70,000</b>
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	<b>3.5</b>
Ion Balance		11/22/00		0	<b>7.9</b>
Nitrate (as N)	mg/L	10/25/00	4500-NO <sub>3</sub> F	0.10	<b>0.22</b>
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO <sub>3</sub> F	0.10	<b>0.22</b>
pH	pH units	10/25/00	4500/9040B	0	<b>7.58</b>
Sulfate	mg/L	10/30/00	375.4	5.0	<b>2,500</b>
TDS	mg/L	10/31/00	2540C	10	<b>35,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/1/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-04B

Field Sample ID:  
GW-83

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	470
Iron	mg/L	11/14/00	6010B	0.10	0.11
Magnesium	mg/L	11/14/00	6010B	0.10	670
Potassium	mg/L	11/14/00	6010B	0.10	440
Sodium	mg/L	11/14/00	6010B	0.10	13,000

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Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-04A

Field Sample ID:  
GW-83

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.030</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/5/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

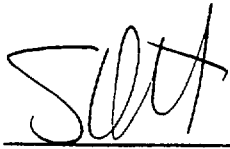
Lab Sample ID:  
L43270-04A

Field Sample ID:  
GW-83

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>160</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>18,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>67,000</b>
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	<b>3.3</b>
Ion Balance		11/22/00		0	<b>8.0</b>
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/25/00	4500/9040B	0	<b>7.48</b>
Sulfate	mg/L	10/30/00	375.4	5.0	<b>2,300</b>
TDS	mg/L	10/31/00	2540C	10	<b>29,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/1/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-05A

Field Sample ID:  
GW-405

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	18,000
Conductivity	µmhos/cm	10/30/00	2510B	10	67,000
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	3.3
Ion Balance		11/22/00		0	8.1
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/25/00	4500/9040B	0	7.48
Sulfate	mg/L	10/30/00	375.4	5.0	2,300
TDS	mg/L	10/31/00	2540C	10	34,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/1/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-05A

Field Sample ID:  
GW-405

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.030</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/5/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-05B

Field Sample ID:  
GW-405

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	490
Iron	mg/L	11/14/00	6010B	0.10	0.21
Magnesium	mg/L	11/14/00	6010B	0.10	670
Potassium	mg/L	11/14/00	6010B	0.10	450
Sodium	mg/L	11/14/00	6010B	0.10	13,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

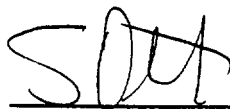
Lab Sample ID:  
L43270-03A

Field Sample ID:  
GW-82

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.030</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/5/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43270-03B

Field Sample ID:  
GW-82

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	440
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	620
Potassium	mg/L	11/14/00	6010B	0.10	450
Sodium	mg/L	11/14/00	6010B	0.10	13,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 24, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

Lab Sample ID:  
L43270-03A

Field Sample ID:  
GW-82

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	19,000
Conductivity	µmhos/cm	10/30/00	2510B	10	67,000
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	3.7
Ion Balance		11/22/00		0	4.8
Nitrate (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	10/25/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/25/00	4500/9040B	0	7.61
Sulfate	mg/L	10/30/00	375.4	5.0	2,500
TDS	mg/L	10/31/00	2540C	10	32,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/1/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

Lab Sample ID:  
L43284-01A

Field Sample ID:  
GW-84

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.050</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.040</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/3/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.20</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-01B

Field Sample ID:  
GW-84

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	550
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	790
Potassium	mg/L	11/14/00	6010B	0.10	530
Sodium	mg/L	11/14/00	6010B	0.10	15,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-01A

Field Sample ID:  
GW-84

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>180</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>23,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>78,000</b>
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	<b>4.0</b>
Ion Balance		11/22/00		0	<b>3.0</b>
Nitrate (as N)	mg/L	10/26/00	4500-NO <sub>3</sub> F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	10/26/00	4500-NO <sub>3</sub> F	0.10	< 0.10
pH	pH units	10/26/00	4500/9040B	0	<b>7.35</b>
Sulfate	mg/L	10/31/00	375.4	5.0	<b>3,000</b>
TDS	mg/L	10/31/00	2540C	10	<b>43,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-02B

Field Sample ID:  
GW-85

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	<b>600</b>
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	<b>890</b>
Potassium	mg/L	11/14/00	6010B	0.10	<b>550</b>
Sodium	mg/L	11/14/00	6010B	0.10	<b>16,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-02A

Field Sample ID:  
GW-85

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	0.030
Barium	mg/L	11/20/00	6010B	0.0040	0.030
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/3/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	0.070
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

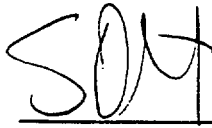
Lab Sample ID:  
L43284-02A

Field Sample ID:  
GW-85

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>200</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>22,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>79,000</b>
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	<b>3.7</b>
Ion Balance		11/22/00		0	<b>8.6</b>
Nitrate (as N)	mg/L	10/26/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	10/26/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/26/00	4500/9040B	0	<b>7.28</b>
Sulfate	mg/L	10/31/00	375.4	5.0	<b>2,900</b>
TDS	mg/L	10/31/00	2540C	10	<b>41,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-03A

Field Sample ID:  
GW-86

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.040</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/3/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.12</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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Fax (801) 263-8687

## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

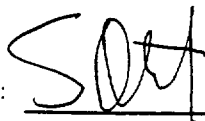
Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-03B

Field Sample ID:  
GW-86

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	560
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	830
Potassium	mg/L	11/14/00	6010B	0.10	580
Sodium	mg/L	11/14/00	6010B	0.10	17,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 25, 2000

Lab Sample ID:  
L43284-04A

Field Sample ID:  
GW-406

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	24,000
Conductivity	µmhos/cm	10/30/00	2510B	10	83,000
Cyanide	mg/L	11/8/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/6/00	4500-FD	1.0	3.9
Ion Balance		11/22/00		0	6.7
Nitrate (as N)	mg/L	10/26/00	4500-NO <sub>3</sub> F	0.10	0.29
Nitrate/Nitrite (as N)	mg/L	10/26/00	4500-NO <sub>3</sub> F	0.10	0.29
pH	pH units	10/26/00	4500/9040B	0	7.39
Sulfate	mg/L	10/31/00	375.4	5.0	3,000
TDS	mg/L	10/31/00	2540C	10	46,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 25, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 25, 2000

Lab Sample ID:  
L43284-04A

Field Sample ID:  
GW-406

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.050</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/3/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.11</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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AMERICAN  
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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 26, 2000

Lab Sample ID:  
L43300-01A

Field Sample ID:  
GW-92

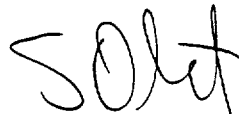
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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.030</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.060</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/6/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.080</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 26, 2000

Lab Sample ID:  
L43300-01B

Field Sample ID:  
GW-92

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**TOTAL METALS**

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Calcium	mg/L	11/14/00	6010B	0.10	<b>80</b>
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	<b>88</b>
Potassium	mg/L	11/14/00	6010B	0.10	<b>140</b>
Sodium	mg/L	11/14/00	6010B	0.10	<b>4,200</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 26, 2000

Lab Sample ID:  
L43300-01A

Field Sample ID:  
GW-92

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	330
Carbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	5,000
Conductivity	µmhos/cm	10/30/00	2510B	10	26,000
Cyanide	mg/L	11/9/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/13/00	4500-FD	1.0	2.4
Ion Balance		11/22/00		0	7.7
Nitrate (as N)	mg/L	10/27/00	4500-NO3F	0.10	2.0
Nitrate/Nitrite (as N)	mg/L	10/27/00	4500-NO3F	0.10	2.0
pH	pH units	10/27/00	4500/9040B	0	7.50
Sulfate	mg/L	10/31/00	375.4	5.0	1,100
TDS	mg/L	11/2/00	2540C	10	11,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

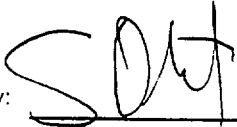
Contact: Jeff Low  
Date Received: October 26, 2000

Lab Sample ID:  
L43300-02B

Field Sample ID:  
GW-93

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	<b>480</b>
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	<b>810</b>
Potassium	mg/L	11/14/00	6010B	0.10	<b>580</b>
Sodium	mg/L	11/14/00	6010B	0.10	<b>18,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 26, 2000

Lab Sample ID:  
L43300-02A

Field Sample ID:  
GW-93

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	<b>210</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	<b>26,000</b>
Conductivity	µmhos/cm	10/30/00	2510B	10	<b>86,000</b>
Cyanide	mg/L	11/9/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/13/00	4500-FD	1.0	<b>3.7</b>
Ion Balance		11/22/00		0	<b>4.6</b>
Nitrate (as N)	mg/L	10/27/00	4500-NO3F	0.10	<b>0.22</b>
Nitrate/Nitrite (as N)	mg/L	10/27/00	4500-NO3F	0.10	<b>0.22</b>
pH	pH units	10/27/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	10/31/00	375.4	5.0	<b>3,500</b>
TDS	mg/L	11/2/00	2540C	10	<b>42,000</b>
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 26, 2000

Lab Sample ID:  
L43300-02A

Field Sample ID:  
GW-93

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.080</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/6/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.21</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 26, 2000

Lab Sample ID:  
L43300-03B

Field Sample ID:  
GW-407

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	480
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	820
Potassium	mg/L	11/14/00	6010B	0.10	580
Sodium	mg/L	11/14/00	6010B	0.10	18,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: October 26, 2000

Lab Sample ID:  
L43300-03A

Field Sample ID:  
GW-407

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/7/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/20/00	6010B	0.0040	<b>0.070</b>
Beryllium	mg/L	11/20/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/20/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/20/00	6010B	0.020	< 0.020
Copper	mg/L	11/20/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/8/00	7421	0.010	< 0.010
Mercury	mg/L	11/6/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/20/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	11/20/00	6010B	0.010	< 0.010
Selenium	mg/L	11/7/00	7740	0.010	< 0.010
Silver	mg/L	11/20/00	6010B	0.010	< 0.010
Zinc	mg/L	11/20/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 26, 2000  
Project: LARW

Contact: Jeff Low  
Date Received October 26, 2000

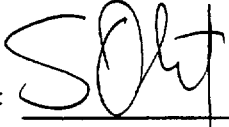
Lab Sample ID:  
L43300-03A

Field Sample ID:  
GW-407

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	210
Carbonate (As CaCO3)	mg/L	10/30/00	2320 B	10	< 10
Chloride	mg/L	10/30/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	10/30/00	2510B	10	86,000
Cyanide	mg/L	11/9/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.8
Ion Balance		11/22/00		0	12
Nitrate (as N)	mg/L	10/27/00	4500-NO3F	0.10	0.22
Nitrate/Nitrite (as N)	mg/L	10/27/00	4500-NO3F	0.10	0.22
pH	pH units	10/27/00	4500/9040B	0	7.40
Sulfate	mg/L	10/31/00	375.4	5.0	3,400
TDS	mg/L	11/2/00	2540C	10	45,000
Total Organic Carbon	mg/L	10/27/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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Report Date: December 2, 2000 Page 1 of 1

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## INORGANIC ANALYSIS REPORT

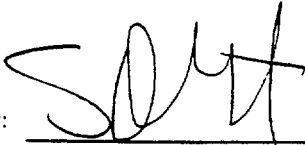
Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received: October 31, 2000

Lab Sample ID:  
L43336-01A

Field Sample ID:  
GW-103

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	250
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	11/1/00	2510B	10	80,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.8
Ion Balance		11/22/00		0	4.9
Nitrate (as N)	mg/L	11/1/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/1/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/31/00	4500/9040B	0	7.20
Sulfate	mg/L	11/8/00	375.4	5.0	3,000
TDS	mg/L	11/6/00	2540C	10	42,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received: October 31, 2000

Lab Sample ID:  
L43336-01B

Field Sample ID:  
GW-103

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Salt Lake City, Utah  
84115

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	540
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	800
Potassium	mg/L	11/14/00	6010B	0.10	510
Sodium	mg/L	11/14/00	6010B	0.10	15,000

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December 6, 2000

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AMERICAN  
WEST  
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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received October 31, 2000

Lab Sample ID:  
L43336-01A

Field Sample ID:  
GW-103

463 West 3600 South  
Salt Lake City, Utah  
84115

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/14/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.0040</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/13/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.17</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/14/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received: October 31, 2000

Lab Sample ID:  
L43336-02A

Field Sample ID:  
GW-104

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	250
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	11/1/00	2510B	10	76,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.1
Ion Balance		11/22/00		0	1.7
Nitrate (as N)	mg/L	11/1/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/1/00	4500-NO3F	0.10	< 0.10
pH	pH units	10/31/00	4500/9040B	0	7.50
Sulfate	mg/L	11/8/00	375.4	5.0	2,300
TDS	mg/L	11/6/00	2540C	10	40,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received October 31, 2000

Lab Sample ID:  
L43336-02B

Field Sample ID:  
GW-104

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/14/00	6010B	0.10	<b>440</b>
Iron	mg/L	11/14/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/14/00	6010B	0.10	<b>640</b>
Potassium	mg/L	11/14/00	6010B	0.10	<b>460</b>
Sodium	mg/L	11/14/00	6010B	0.10	<b>14,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 30, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received October 31, 2000

Lab Sample ID:  
L43336-02A

Field Sample ID:  
GW-104

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/14/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/13/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.13</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/14/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-01B

Field Sample ID:  
GW-105

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	360
Iron	mg/L	11/17/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/17/00	6010B	0.10	560
Potassium	mg/L	11/17/00	6010B	0.10	460
Sodium	mg/L	11/17/00	6010B	0.10	13,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

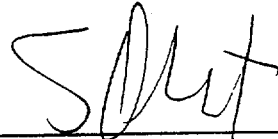
Lab Sample ID:  
L43356-01A

Field Sample ID:  
GW-105

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	190
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	21,000
Conductivity	µmhos/cm	11/8/00	2510B	10	83,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.2
Ion Balance		11/22/00		0	-0.49
Nitrate (as N)	mg/L	11/2/00	4500-NO3F	0.10	0.60
Nitrate/Nitrite (as N)	mg/L	11/2/00	4500-NO3F	0.10	0.60
pH	pH units	11/2/00	4500/9040B	0	7.70
Sulfate	mg/L	11/8/00	375.4	5.0	2,500
TDS	mg/L	11/6/00	2540C	10	36,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-01A

Field Sample ID:  
GW-105

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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/17/00	7060A	0.010	0.023
Barium	mg/L	11/17/00	6010B	0.0040	0.020
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/16/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	0.11
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-02B

Field Sample ID:  
GW-102

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	<b>550</b>
Iron	mg/L	11/17/00	6010B	0.10	<b>0.10</b>
Magnesium	mg/L	11/17/00	6010B	0.10	<b>710</b>
Potassium	mg/L	11/17/00	6010B	0.10	<b>480</b>
Sodium	mg/L	11/17/00	6010B	0.10	<b>14,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-02A

Field Sample ID:  
GW-102

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<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	11/10/00	2320 B	10	120
Carbonate (As CaCO3)	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	11/8/00	2510B	10	82,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.5
Ion Balance		11/22/00		0	1.3
Nitrate (as N)	mg/L	11/2/00	4500-NO3F	0.10	0.63
Nitrate/Nitrite (as N)	mg/L	11/2/00	4500-NO3F	0.10	0.63
pH	pH units	11/2/00	4500/9040B	0	7.60
Sulfate	mg/L	11/8/00	375.4	5.0	3,200
TDS	mg/L	11/6/00	2540C	10	44,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling


Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-02A

Field Sample ID:  
GW-102

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/17/00	7060A	0.010	<b>0.045</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/16/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.090</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-03B

Field Sample ID:  
GW-101

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**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	<b>440</b>
Iron	mg/L	11/17/00	6010B	0.10	<b>0.30</b>
Magnesium	mg/L	11/17/00	6010B	0.10	<b>590</b>
Potassium	mg/L	11/17/00	6010B	0.10	<b>430</b>
Sodium	mg/L	11/17/00	6010B	0.10	<b>13,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-03A

Field Sample ID:  
GW-101

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	150
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	18,000
Conductivity	µmhos/cm	11/8/00	2510B	10	70,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	3.4
Ion Balance		11/22/00		0	6.8
Nitrate (as N)	mg/L	11/2/00	4500-NO <sub>3</sub> F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/2/00	4500-NO <sub>3</sub> F	0.10	< 0.10
pH	pH units	11/2/00	4500/9040B	0	7.60
Sulfate	mg/L	11/8/00	375.4	5.0	2,600
TDS	mg/L	11/6/00	2540C	10	33,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-03A

Field Sample ID:  
GW-101

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/17/00	7060A	0.010	<b>0.041</b>
Barium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/16/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.16</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-04B

Field Sample ID:  
GW-100

### **TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	570
Iron	mg/L	11/17/00	6010B	0.10	0.40
Magnesium	mg/L	11/17/00	6010B	0.10	720
Potassium	mg/L	11/17/00	6010B	0.10	470
Sodium	mg/L	11/17/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
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Lab Sample ID:  
L43356-04A

Field Sample ID:  
GW-100

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO3)	mg/L	11/10/00	2320 B	10	<b>140</b>
Carbonate (As CaCO3)	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	<b>21,000</b>
Conductivity	µmhos/cm	11/8/00	2510B	10	<b>74,000</b>
Fluoride	mg/L	11/13/00	4500-FD	1.0	<b>3.9</b>
Ion Balance		11/22/00		0	<b>3.9</b>
Nitrate (as N)	mg/L	11/2/00	4500-NO3F	0.10	<b>0.30</b>
Nitrate/Nitrite (as N)	mg/L	11/2/00	4500-NO3F	0.10	<b>0.30</b>
pH	pH units	11/2/00	4500/9040B	0	<b>7.50</b>
Sulfate	mg/L	11/8/00	375.4	5.0	<b>2,900</b>
TDS	mg/L	11/6/00	2540C	10	<b>31,000</b>
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: October 31, 2000  
Project: LARW 2nd Semi Sampling

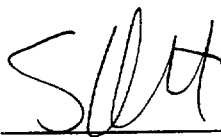
Contact: Jeff Low  
Date Received November 1, 2000

Lab Sample ID:  
L43356-04A

Field Sample ID:  
GW-100

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/17/00	7060A	0.010	<b>0.11</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.040</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/16/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.42</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-01A

Field Sample ID:  
GW-99

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	160
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	19,000
Conductivity	µmhos/cm	11/8/00	2510B	10	77,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	5.6
Ion Balance		11/22/00		0	9.0
Nitrate (as N)	mg/L	11/3/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/3/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/3/00	4500/9040B	0	7.30
Sulfate	mg/L	11/8/00	375.4	5.0	3,100
TDS	mg/L	11/9/00	2540C	10	36,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-01B

Field Sample ID:  
GW-99

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	<b>680</b>
Iron	mg/L	11/17/00	6010B	0.10	<b>0.19</b>
Magnesium	mg/L	11/17/00	6010B	0.10	<b>810</b>
Potassium	mg/L	11/17/00	6010B	0.10	<b>480</b>
Sodium	mg/L	11/17/00	6010B	0.10	<b>14,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-01A

Field Sample ID:  
GW-99

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/17/00	7060A	0.010	<b>0.067</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/18/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.15</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-02A

Field Sample ID:  
GW-94

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	140
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	23,000
Conductivity	µmhos/cm	11/8/00	2510B	10	78,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	4.4
Ion Balance		11/22/00		0	5.6
Nitrate (as N)	mg/L	11/3/00	4500-NO3F	0.10	0.48
Nitrate/Nitrite (as N)	mg/L	11/3/00	4500-NO3F	0.10	0.48
pH	pH units	11/3/00	4500/9040B	0	7.50
Sulfate	mg/L	11/8/00	375.4	5.0	3,800
TDS	mg/L	11/9/00	2540C	10	34,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-02B

Field Sample ID:  
GW-94

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	640
Iron	mg/L	11/17/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/17/00	6010B	0.10	920
Potassium	mg/L	11/17/00	6010B	0.10	520
Sodium	mg/L	11/17/00	6010B	0.10	16,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-02A

Field Sample ID:  
GW-94

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/17/00	7060A	0.010	0.25
Barium	mg/L	11/17/00	6010B	0.0040	0.010
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/18/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	0.52
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-03A

Field Sample ID:  
GW-95

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	130
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/10/00	2320 B	10	< 10
Chloride	mg/L	11/9/00	4500-CL B	5.0	24,000
Conductivity	µmhos/cm	11/8/00	2510B	10	83,000
Fluoride	mg/L	11/13/00	4500-FD	1.0	4.6
Ion Balance		11/22/00		0	3.7
Nitrate (as N)	mg/L	11/3/00	4500-NO3F	0.10	0.17
Nitrate/Nitrite (as N)	mg/L	11/3/00	4500-NO3F	0.10	0.17
pH	pH units	11/3/00	4500/9040B	0	7.50
Sulfate	mg/L	11/8/00	375.4	5.0	4,600
TDS	mg/L	11/9/00	2540C	10	39,000
Total Organic Carbon	mg/L	11/7/00	5310C	1.0	< 1.0
TOX	mg/L	11/6/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received: November 2, 2000

Lab Sample ID:  
L43395-03B

Field Sample ID:  
GW-95

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/17/00	6010B	0.10	860
Iron	mg/L	11/17/00	6010B	0.10	1.4
Magnesium	mg/L	11/17/00	6010B	0.10	1,000
Potassium	mg/L	11/17/00	6010B	0.10	520
Sodium	mg/L	11/17/00	6010B	0.10	16,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 2, 2000  
Project: LARW 2nd Semi Sampling

Contact: Jeff Low  
Date Received November 2, 2000

Lab Sample ID:  
L43395-03A

Field Sample ID:  
GW-95

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/17/00	7060A	0.010	<b>0.34</b>
Barium	mg/L	11/17/00	6010B	0.0040	<b>0.020</b>
Beryllium	mg/L	11/17/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	11/17/00	6010B	0.0040	< 0.0040
Chromium	mg/L	11/17/00	6010B	0.020	< 0.020
Copper	mg/L	11/17/00	6010B	0.0080	< 0.0080
Lead	mg/L	11/10/00	7421	0.010	< 0.010
Mercury	mg/L	11/18/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	11/17/00	6010B	0.040	<b>0.78</b>
Nickel	mg/L	11/17/00	6010B	0.010	< 0.010
Selenium	mg/L	11/17/00	7740	0.010	< 0.010
Silver	mg/L	11/17/00	6010B	0.010	< 0.010
Zinc	mg/L	11/17/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43574-01A  
Field Sample ID: **GW-38R**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 16, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000

Contact: Jeff Low  
Analyzed: November 28, 2000  
Extracted: November 16, 2000

Analysis Requested: 8270C  
Lab Sample ID: L43574-01B  
Field Sample ID: **GW-38R**  
Site ID: LARW/11e. (2)

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43574-01B  
Field Sample ID: **GW-38R**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 15, 2000  
Extracted: November 14, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-01C

Field Sample ID:  
GW-38R

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	120
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	20,000
Conductivity	µmhos/cm	11/16/00	2510B	10	74,000
Cyanide	mg/L	11/27/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/28/00	4500-FD	0.50	4.0
Ion Balance		12/11/00		0	5.0
Nitrate (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	0.76
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	0.76
pH	pH units	11/15/00	4500/9040B	0	7.40
Sulfate	mg/L	11/16/00	375.4	5.0	3,000
TDS	mg/L	11/16/00	2540C	10	41,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/16/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-01E.

Field Sample ID:  
GW-38R

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	420
Iron	mg/L	11/22/00	6010B	0.10	0.35
Magnesium	mg/L	11/22/00	6010B	0.10	670
Potassium	mg/L	11/22/00	6010B	0.10	410
Sodium	mg/L	11/22/00	6010B	0.10	14,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-01D

Field Sample ID:  
GW-38R

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	0.11
Barium	mg/L	12/5/00	6010B	0.0040	0.041
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.0050	0.037
Copper	mg/L	12/5/00	6010B	0.0080	0.022
Lead	mg/L	11/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/27/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	12/5/00	6010B	0.040	0.33
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.0050	< 0.0050
Silver	mg/L	12/5/00	6010B	0.0050	< 0.0050
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8260B/5030A  
Lab Sample ID: L43574-02A  
Field Sample ID: GW-37  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 16, 2000

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43574-02B  
Field Sample ID: GW-37  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 28, 2000  
Extracted: November 16, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8081/3510B  
Lab Sample ID: L43574-02B  
Field Sample ID: **GW-37**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 15, 2000  
Extracted: November 14, 2000

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Chlordane	10	< 10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-02C

Field Sample ID:  
GW-37

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	150
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	23,000
Conductivity	µmhos/cm	11/16/00	2510B	10	83,000
Cyanide	mg/L	11/27/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/28/00	4500-FD	0.50	4.0
Ion Balance		12/11/00		0	7.7
Nitrate (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	0.61
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	0.61
pH	pH units	11/15/00	4500/9040B	0	7.40
Sulfate	mg/L	11/16/00	375.4	5.0	3,300
TDS	mg/L	11/16/00	2540C	10	39,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/16/00	9020B	0.050	< 0.050

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Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-02E

Field Sample ID:  
GW-37

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**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	<b>450</b>
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	<b>800</b>
Potassium	mg/L	11/22/00	6010B	0.10	<b>510</b>
Sodium	mg/L	11/22/00	6010B	0.10	<b>17,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-02D

Field Sample ID:  
GW-37

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	<b>0.040</b>
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.032</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.0050	<b>0.040</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.015</b>
Lead	mg/L	11/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/27/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.29</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.0050	< 0.0050
Silver	mg/L	12/5/00	6010B	0.0050	< 0.0050
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000

Contact: Jeff Low  
Analyzed: November 16, 2000

Analysis Requested: 8260B/5030A  
Lab Sample ID: L43574-03A  
Field Sample ID: **GW-29**  
Site ID: LARW/11e. (2)

### Analytical Results

### Volatile Organic Compounds

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	20	< 20
2-Butanone	20	< 20
Carbondisulfide	2.0	< 2.0
Chloroform	2.0	< 2.0
1,2-Dichloroethane	2.0	< 2.0
Methylene chloride	2.0	< 2.0
1,1,2-Trichloroethane	50	< 50
Vinyl chloride	50	< 50

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000  
Analysis Requested: 8270C  
Lab Sample ID: L43574-03B  
Field Sample ID: **GW-29**  
Site ID: LARW/11e. (2)

Contact: Jeff Low  
Analyzed: November 28, 2000  
Extracted: November 16, 2000

### Analytical Results

### Semi Volatile Organics by GC/MS

Units =  $\mu\text{g/L}$

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Benz(a)anthracene	100	< 100
Benzo(a)pyrene	100	< 100
Benzo(b)fluoranthene	100	< 100
Benzo(k)fluoranthene	100	< 100
Chrysene	100	< 100
Dibenz(a,h)anthracene	100	< 100
Diethyl phthalate	4.0	< 4.0
2-Methylnaphthalene	4.0	< 4.0
Naphthalene	4.0	< 4.0

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## ORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Collected: November 13, 2000  
Received: November 14, 2000

Contact: Jeff Low  
Analyzed: November 15, 2000  
Extracted: November 14, 2000

Analysis Requested: 8081/3510B  
Lab Sample ID: L43574-03B  
Field Sample ID: **GW-29**  
Site ID: LARW/11e. (2)

### Analytical Results

### PESTICIDES

Units =  $\mu\text{g/L}$

Compound  
Chlordane

Reporting  
Limit  
10

Amount  
Detected  
< 10

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Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000


Lab Sample ID:  
L43574-03C

Field Sample ID:  
GW-29

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO3)	mg/L	11/16/00	2320 B	10	280
Carbonate (As CaCO3)	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	23,000
Conductivity	µmhos/cm	11/16/00	2510B	10	84,000
Cyanide	mg/L	11/27/00	4500-CNE	0.0050	< 0.0050
Fluoride	mg/L	11/28/00	4500-FD	0.50	4.7
Ion Balance		12/11/00		0	7.5
Nitrate (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/15/00	4500/9040B	0	7.10
Sulfate	mg/L	11/16/00	375.4	5.0	3,700
TDS	mg/L	11/16/00	2540C	10	42,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/16/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-03E

Field Sample ID:  
GW-29

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### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	490
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	860
Potassium	mg/L	11/22/00	6010B	0.10	540
Sodium	mg/L	11/22/00	6010B	0.10	17,000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)


Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-03D

Field Sample ID:  
GW-29

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	<b>0.020</b>
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.026</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.0050	<b>0.040</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/30/00	7421	0.0050	< 0.0050
Mercury	mg/L	11/27/00	7470A	0.00020	< 0.0002
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.0050	< 0.0050
Silver	mg/L	12/5/00	6010B	0.0050	< 0.0050
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-04A

Field Sample ID:  
GW-77

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	<b>280</b>
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	<b>23,000</b>
Conductivity	µmhos/cm	11/16/00	2510B	10	<b>78,000</b>
Cyanide	mg/L	11/27/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	<b>3.6</b>
Ion Balance		12/11/00		0	<b>5.6</b>
Nitrate (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	<b>0.11</b>
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO <sub>3</sub> F	0.10	<b>0.11</b>
pH	pH units	11/15/00	4500/9040B	0	<b>7.30</b>
Sulfate	mg/L	11/16/00	375.4	5.0	<b>1,900</b>
TDS	mg/L	11/16/00	2540C	10	<b>50,000</b>
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/16/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-04C

Field Sample ID:  
GW-77

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	360
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	600
Potassium	mg/L	11/22/00	6010B	0.10	440
Sodium	mg/L	11/22/00	6010B	0.10	16,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: LARW/11e. (2)

Contact: Jeff Low  
Date Received November 14, 2000

Lab Sample ID:  
L43574-04B

Field Sample ID:  
GW-77

**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	<b>0.010</b>
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.047</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.035</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.015</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/27/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.065</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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Report Date:

December 14, 2000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 13, 2000  
Project: 11e. (2) Exceedance

Contact: Jeff Low  
Date Received: November 14, 2000

Lab Sample ID:  
L43575-01A

Field Sample ID:  
GW-29A

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Barium	mg/L	12/5/00	6010B	0.0040	0.026

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000


Lab Sample ID:  
L43606-01A

Field Sample ID:  
GW-64

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	230
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	22,000
Conductivity	µmhos/cm	11/16/00	2510B	10	78,000
Cyanide	mg/L	11/27/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	3.7
Ion Balance		12/11/00		0	6.9
Nitrate (as N)	mg/L	11/15/00	4500-NO3F	0.10	0.12
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO3F	0.10	0.12
pH	pH units	11/15/00	4500/9040B	0	7.20
Sulfate	mg/L	11/16/00	375.4	5.0	2,500
TDS	mg/L	11/16/00	2540C	10	38,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-01B

Field Sample ID:  
GW-64

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	380
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	620
Potassium	mg/L	11/22/00	6010B	0.10	440
Sodium	mg/L	11/22/00	6010B	0.10	16,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-01C

Field Sample ID:  
GW-64

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.040</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.035</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.077</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

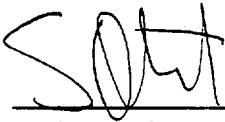
Lab Sample ID:  
L43606-02A

Field Sample ID:  
I-2-30

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	250
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	17,000
Conductivity	µmhos/cm	11/16/00	2510B	10	64,000
Cyanide	mg/L	11/27/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	2.9
Ion Balance		12/11/00		0	6.6
Nitrate (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/15/00	4500/9040B	0	7.30
Sulfate	mg/L	11/16/00	375.4	5.0	1,000
TDS	mg/L	11/16/00	2540C	10	39,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-02B

Field Sample ID:  
I-2-30

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	<b>300</b>
Iron	mg/L	11/22/00	6010B	0.10	<b>0.16</b>
Magnesium	mg/L	11/22/00	6010B	0.10	<b>360</b>
Potassium	mg/L	11/22/00	6010B	0.10	<b>350</b>
Sodium	mg/L	11/22/00	6010B	0.10	<b>12,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-02C

Field Sample ID:  
I-2-30.

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/28/00	7060A	0.010	0.030
Barium	mg/L	12/5/00	6010B	0.0040	0.041
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	0.027
Copper	mg/L	12/5/00	6010B	0.0080	0.017
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	< 0.040
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-03A

Field Sample ID:  
GW-56R

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	360
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	20,000
Conductivity	µmhos/cm	11/16/00	2510B	10	76,000
Cyanide	mg/L	11/27/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	3.1
Ion Balance		12/11/00		0	5.3
Nitrate (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/15/00	4500/9040B	0	7.20
Sulfate	mg/L	11/16/00	375.4	5.0	1,600
TDS	mg/L	11/16/00	2540C	10	32,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-03B .

Field Sample ID:  
GW-56R

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	<b>330</b>
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	<b>420</b>
Potassium	mg/L	11/22/00	6010B	0.10	<b>450</b>
Sodium	mg/L	11/22/00	6010B	0.10	<b>14,000</b>

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-03C

Field Sample ID:  
GW-56R

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**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/28/00	7060A	0.010	<b>0.010</b>
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.041</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.031</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.016</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.051</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-04A

Field Sample ID:  
GW-16R

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO3)	mg/L	11/16/00	2320 B	10	340
Carbonate (As CaCO3)	mg/L	11/16/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	20,000
Conductivity	µmhos/cm	11/16/00	2510B	10	77,000
Cyanide	mg/L	11/27/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	3.0
Ion Balance		12/11/00		0	8.6
Nitrate (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/15/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/15/00	4500/9040B	0	7.20
Sulfate	mg/L	11/16/00	375.4	5.0	1,600
TDS	mg/L	11/16/00	2540C	10	41,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-04B

Field Sample ID:  
GW-16R

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**TOTAL METALS**

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Calcium	mg/L	11/22/00	6010B	0.10	340
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	430
Potassium	mg/L	11/22/00	6010B	0.10	450
Sodium	mg/L	11/22/00	6010B	0.10	15,000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 14, 2000  
Project: LARW 2nd Semi

Contact: Jeff Low  
Date Received November 15, 2000

Lab Sample ID:  
L43606-04C

Field Sample ID:  
GW-16R

**DISSOLVED METALS**

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.035</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.032</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.016</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.048</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-01C

Field Sample ID:  
P3-95 SWC

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	<b>2,000</b>
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	<b>2,200</b>
Potassium	mg/L	11/22/00	6010B	0.10	<b>640</b>
Sodium	mg/L	11/22/00	6010B	0.10	<b>41,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-01B

Field Sample ID:  
P3-95 SWC

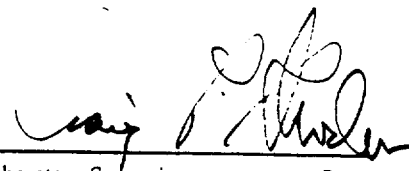
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### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.091</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.037</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.017</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/29/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.043</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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Report Date:

December 14, 2000

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AMERICAN  
WEST  
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LABORATORIES

## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-01A

Field Sample ID:  
P3-95 SWC

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	84
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	67,000
Conductivity	µmhos/cm	11/21/00	2510B	10	170,000
Cyanide	mg/L	11/28/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	5.6
Ion Balance		12/11/00		0	2.7
Nitrate (as N)	mg/L	11/17/00	4500-NO <sub>3</sub> F	0.10	17
Nitrate/Nitrite (as N)	mg/L	11/17/00	4500-NO <sub>3</sub> F	0.10	17
pH	pH units	11/21/00	4500/9040B	0	7.20
Sulfate	mg/L	11/20/00	375.4	5.0	3,800
TDS	mg/L	11/22/00	2540C	10	110,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

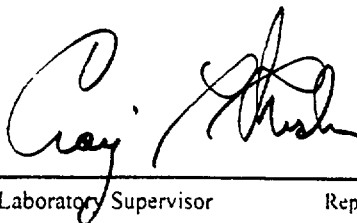
Lab Sample ID:  
L43629-02C

Field Sample ID:  
P3-95 NEC

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	250
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	270
Potassium	mg/L	11/22/00	6010B	0.10	280
Sodium	mg/L	11/22/00	6010B	0.10	9,300

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-02B

Field Sample ID:  
P3-95 NEC

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.042</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.021</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.014</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/29/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	< 0.040
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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AMERICAN  
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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-02A

Field Sample ID:  
P3-95 NEC

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	200
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	16,000
Conductivity	µmhos/cm	11/21/00	2510B	10	54,000
Cyanide	mg/L	11/28/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	1.9
Ion Balance		12/11/00		0	-2.5
Nitrate (as N)	mg/L	11/17/00	4500-NO3F	0.10	< 0.10
Nitrate/Nitrite (as N)	mg/L	11/17/00	4500-NO3F	0.10	< 0.10
pH	pH units	11/21/00	4500/9040B	0	7.40
Sulfate	mg/L	11/20/00	375.4	5.0	720
TDS	mg/L	11/22/00	2540C	10	17,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: November 16, 2000

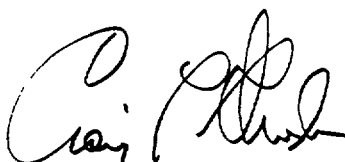
Lab Sample ID:  
L43629-03C

Field Sample ID:  
P3-97 NEC

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	<b>370</b>
Iron	mg/L	11/22/00	6010B	0.10	< 0.10
Magnesium	mg/L	11/22/00	6010B	0.10	<b>460</b>
Potassium	mg/L	11/22/00	6010B	0.10	<b>400</b>
Sodium	mg/L	11/22/00	6010B	0.10	<b>14,000</b>

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AMERICAN  
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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-03B

Field Sample ID:  
P3-97 NEC

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**DISSOLVED METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.047</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.032</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.018</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	11/29/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	<b>0.052</b>
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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Client: Envirocare of Utah  
Date Sampled: November 15, 2000  
Project: LARW

Contact: Jeff Low  
Date Received November 16, 2000

Lab Sample ID:  
L43629-03A

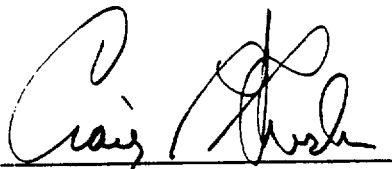
Field Sample ID:  
P3-97 NEC

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84115

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	290
Carbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	< 10
Chloride	mg/L	11/17/00	4500-CL B	5.0	18,000
Conductivity	µmhos/cm	11/21/00	2510B	10	75,000
Cyanide	mg/L	11/28/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	11/28/00	4500-FD	1.0	3.0
Ion Balance		12/11/00		0	10
Nitrate (as N)	mg/L	11/17/00	4500-NO <sub>3</sub> F	0.10	0.41
Nitrate/Nitrite (as N)	mg/L	11/17/00	4500-NO <sub>3</sub> F	0.10	0.41
pH	pH units	11/21/00	4500/9040B	0	7.30
Sulfate	mg/L	11/20/00	375.4	5.0	1,900
TDS	mg/L	11/22/00	2540C	10	29,000
Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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# INORGANIC ANALYSIS REPORT

AMERICAN  
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LABORATORIES

Client: Envirocare of Utah  
Date Sampled: November 16, 2000  
Project: LARW  
Lab Sample ID:  
L43644-01B

Contact: Jeff Low  
Date Received November 17, 2000

Field Sample ID:  
CL-4

463 West 3600 South  
Salt Lake City, Utah  
84115

## DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	11/28/00	7060A	0.010	< 0.010
Barium	mg/L	12/5/00	6010B	0.0040	<b>0.20</b>
Beryllium	mg/L	12/5/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/5/00	6010B	0.0040	< 0.0040
Chromium	mg/L	12/5/00	6010B	0.020	<b>0.041</b>
Copper	mg/L	12/5/00	6010B	0.0080	<b>0.031</b>
Lead	mg/L	11/30/00	7421	0.010	< 0.010
Mercury	mg/L	12/1/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/5/00	6010B	0.040	< 0.040
Nickel	mg/L	12/5/00	6010B	0.010	< 0.010
Selenium	mg/L	11/28/00	7740	0.010	< 0.010
Silver	mg/L	12/5/00	6010B	0.010	< 0.010
Zinc	mg/L	12/5/00	6010B	0.10	< 0.10

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## INORGANIC ANALYSIS REPORT

AMERICAN  
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Client: Envirocare of Utah  
Date Sampled: November 16, 2000  
Project: LARW  
Lab Sample ID:  
L43644-01C

Contact: Jeff Low  
Date Received November 17, 2000


Field Sample ID:  
CL-4

463 West 3600 South  
Salt Lake City, Utah  
84115

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	11/22/00	6010B	0.10	1,600
Iron	mg/L	11/22/00	6010B	0.10	0.85
Magnesium	mg/L	11/22/00	6010B	0.10	830
Potassium	mg/L	11/22/00	6010B	0.10	160
Sodium	mg/L	11/22/00	6010B	0.10	9,600

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Report Date: December 18, 2000 Page 1 of 1



## INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES  
Client: Envirocare of Utah  
Date Sampled: November 16, 2000  
Project: LARW  
Lab Sample ID:  
L43644-01A

Contact: Jeff Low  
Date Received November 17, 2000

Field Sample ID:  
CL-4

463 West 3600 South Salt Lake City, Utah 84115	<b>Analytical Results</b>	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
	Bicarbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	120
	Carbonate (As CaCO <sub>3</sub> )	mg/L	11/21/00	2320 B	10	< 10
	Chloride	mg/L	11/21/00	4500-CL B	5.0	17,000
	Conductivity	µmhos/cm	11/21/00	2510B	10	64,000
(801) 263-8686	Cyanide	mg/L	11/30/00	4500-CNE	0.010	< 0.010
Toll Free (888) 263-8686	Fluoride	mg/L	11/28/00	4500-FD	1.0	3.2
Fax (801) 263-8687	Ion Balance		12/11/00		0	4.1
	Nitrate (as N)	mg/L	11/17/00	4500-NO3F	0.10	2.4
	Nitrate/Nitrite (as N)	mg/L	11/17/00	4500-NO3F	0.10	2.4
	pH	pH units	11/21/00	4500/9040B	0	7.10
	Sulfate	mg/L	11/20/00	375.4	5.0	2,100
	TDS	mg/L	11/22/00	2540C	10	24,000
	Total Organic Carbon	mg/L	11/20/00	5310C	1.0	< 1.0
	TOX	mg/L	11/17/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-01A

Field Sample ID:  
GW-94

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-02A

Field Sample ID:  
GW-95

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT


Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-03A

Field Sample ID:  
GW-99

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-04A

Field Sample ID:  
GW-100

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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Report Date:

December 6, 2000

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## INORGANIC ANALYSIS REPORT

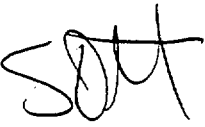
Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-05A

Field Sample ID:  
GW-101

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
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Contact: Jeff Low  
Date Received December 4, 2000

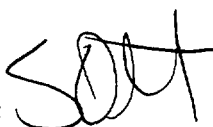
Lab Sample ID:  
L43850-06A

Field Sample ID:  
GW-102

463 West 3600 South  
Salt Lake City, Utah  
84115

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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Report Date:

December 6, 2000

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-07A

Field Sample ID:  
GW-105

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-08A

Field Sample ID:  
GW-104

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT


Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 4, 2000

Lab Sample ID:  
L43850-09A

Field Sample ID:  
GW-401

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 1, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: December 4, 2000

Lab Sample ID:  
L43850-10A

Field Sample ID:  
GW-103

<b>Analytical Results</b>	<b>Units</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Amount Detected</b>
Cyanide	mg/L	12/5/00	4500-CNE	0.010	< 0.010

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Report Date:

December 6, 2000

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INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW  
Lab Sample ID:  
L44066-01C

Contact: Jeff Low  
Date Received December 18, 2000

Field Sample ID:  
P3-95SWC

**TOTAL METALS**

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	12/28/00	6010B	0.10	<b>1,800</b>
Iron	mg/L	12/28/00	6010B	0.10	< 0.10
Magnesium	mg/L	12/28/00	6010B	0.10	<b>2,000</b>
Potassium	mg/L	12/28/00	6010B	0.10	<b>940</b>
Sodium	mg/L	12/28/00	6010B	0.10	<b>41,000</b>

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 18, 2000

Lab Sample ID:  
L44066-01B


Field Sample ID:  
P3-95SWC

463 West 3600 South  
Salt Lake City, Utah  
84115

### DISSOLVED METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Arsenic	mg/L	12/26/00	7060A	0.010	< 0.010
Barium	mg/L	12/27/00	6010B	0.0040	<b>0.099</b>
Beryllium	mg/L	12/27/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/27/00	6010B	0.0040	<b>0.026</b>
Chromium	mg/L	12/27/00	6010B	0.020	<b>0.067</b>
Copper	mg/L	12/27/00	6010B	0.0080	<b>0.080</b>
Lead	mg/L	12/29/00	7421	0.010	< 0.010
Mercury	mg/L	12/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/27/00	6010B	0.040	<b>0.23</b>
Nickel	mg/L	12/27/00	6010B	0.010	<b>0.019</b>
Selenium	mg/L	12/26/00	7740	0.010	< 0.010
Silver	mg/L	12/27/00	6010B	0.010	<b>0.047</b>
Zinc	mg/L	12/27/00	6010B	0.10	< 0.10

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January 5, 2001

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 18, 2000

Lab Sample ID:  
L44066-01A

Field Sample ID:  
P3-95SWC

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<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	12/19/00	2320 B	10	120
Carbonate (As CaCO <sub>3</sub> )	mg/L	12/19/00	2320 B	10	< 10
Chloride	mg/L	12/20/00	4500-CL B	5.0	65,000
Conductivity	µmhos/cm	12/20/00	2510B	10	140,000
Cyanide	mg/L	12/20/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	12/20/00	4500-FD	1.0	8.6
Ion Balance		1/4/01		0	3.9
Nitrate (as N)	mg/L	12/19/00	4500-NO3F	0.10	12
Nitrate/Nitrite (as N)	mg/L	12/19/00	4500-NO3F	0.10	12
pH	pH units	12/19/00	4500/9040B	0	7.10
Sulfate	mg/L	12/20/00	375.4	5.0	3,500
TDS	mg/L	12/21/00	2540C	10	98,000
Total Organic Carbon	mg/L	12/19/00	5310C	1.0	< 1.0
TOX	mg/L	12/21/00	9020B	0.050	< 0.050

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW

Contact: Jeff Low  
Date Received: December 18, 2000

Lab Sample ID:  
L44066-02C

Field Sample ID:  
GW-701

463 West 3600 South  
Salt Lake City, Utah  
84115

### TOTAL METALS

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Calcium	mg/L	12/28/00	6010B	0.10	1,700
Iron	mg/L	12/28/00	6010B	0.10	< 0.10
Magnesium	mg/L	12/28/00	6010B	0.10	1,900
Potassium	mg/L	12/28/00	6010B	0.10	900
Sodium	mg/L	12/28/00	6010B	0.10	40,000

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Report Date:

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## INORGANIC ANALYSIS REPORT

Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 18, 2000

Lab Sample ID:  
L44066-02B

Field Sample ID:  
GW-701

### DISSOLVED METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	12/26/00	7060A	0.010	< 0.010
Barium	mg/L	12/27/00	6010B	0.0040	<b>0.091</b>
Beryllium	mg/L	12/27/00	6010B	0.0020	< 0.0020
Cadmium	mg/L	12/27/00	6010B	0.0040	<b>0.024</b>
Chromium	mg/L	12/27/00	6010B	0.020	<b>0.067</b>
Copper	mg/L	12/27/00	6010B	0.0080	<b>0.097</b>
Lead	mg/L	12/29/00	7421	0.010	< 0.010
Mercury	mg/L	12/28/00	7470A	0.0010	< 0.0010
Molybdenum	mg/L	12/27/00	6010B	0.040	<b>0.22</b>
Nickel	mg/L	12/27/00	6010B	0.010	<b>0.018</b>
Selenium	mg/L	12/26/00	7740	0.010	< 0.010
Silver	mg/L	12/27/00	6010B	0.010	<b>0.043</b>
Zinc	mg/L	12/27/00	6010B	0.10	< 0.10

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January 5, 2001

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Client: Envirocare of Utah  
Date Sampled: December 18, 2000  
Project: LARW

Contact: Jeff Low  
Date Received December 18, 2000

Lab Sample ID:  
L44066-02A

Field Sample ID:  
GW-701

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Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Bicarbonate (As CaCO <sub>3</sub> )	mg/L	12/19/00	2320 B	10	120
Carbonate (As CaCO <sub>3</sub> )	mg/L	12/19/00	2320 B	10	< 10
Chloride	mg/L	12/20/00	4500-CL B	5.0	65,000
Conductivity	µmhos/cm	12/20/00	2510B	10	150,000
Cyanide	mg/L	12/20/00	4500-CNE	0.010	< 0.010
Fluoride	mg/L	12/20/00	4500-FD	1.0	8.6
Ion Balance		1/4/01		0	2.4
Nitrate (as N)	mg/L	12/19/00	4500-NO <sub>3</sub> F	0.10	11
Nitrate/Nitrite (as N)	mg/L	12/19/00	4500-NO <sub>3</sub> F	0.10	11
pH	pH units	12/19/00	4500/9040B	0	7.00
Sulfate	mg/L	12/20/00	375.4	5.0	3,500
TDS	mg/L	12/21/00	2540C	10	110,000
Total Organic Carbon	mg/L	12/19/00	5310C	1.0	< 1.0
TOX	mg/L	12/21/00	9020B	0.050	< 0.050

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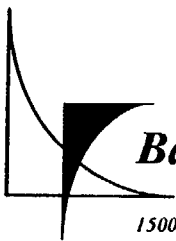


ATTACHMENT D

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ANALYTICAL REPORTS: RADIOLOGICAL CHEMISTRIES

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# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-103A**

Tag Number:

Lab Sample ID: **0007138-01A**  
Date Collected: **07/11/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.024	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	50 ± 23	40		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	58 ± 14	8		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	120 ± 490	800		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.86 ± 0.54	0.5		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.2 ± 0.40	0.6		pCi/L	1		07/31/2000	CWP	P5811
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.23 ± 0.71	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.46 ± 0.48	0.6		pCi/L	1		08/16/2000	JCP	P6220
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	13 ± 1.5	1		pCi/L	1		07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.13 ± 0.34	0.6		pCi/L	1		07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	8.7 ± 1.2	0.7		pCi/L	1		07/20/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.1 ± 1.3	2		pCi/L	1		08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.34 ± 0.63	0.9		pCi/L	1		08/07/2000	KEB	P6072

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

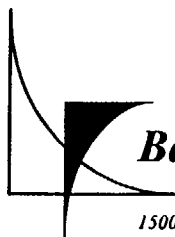
Client Sample ID: **GW-103A**

Tag Number:

Lab Sample ID: **0007138-01B**  
Date Collected: **07/11/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-41 ± 40	70		pCi/L	1		08/09/2000	FT	P6188
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.93 ± 0.73	1		pCi/L	1		07/26/2000	CWP	P5808

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — Sample > 10 times blank result M - Maximum contaminant level exceeded — Late sample(s) < 5 times limit



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Date: 21-Aug-00

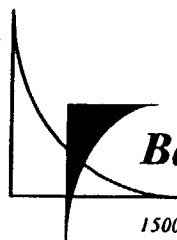
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103A</b>	Lab Sample ID: <b>0007138-01C</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-180 ± 210	400		pCi/L	1		08/07/2000	AWT	P6069

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103B</b>	Lab Sample ID: <b>0007138-02A</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.024	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	27 ± 21	30		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	59 ± 14	8		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	210 ± 490	800		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.33 ± 0.44	0.6		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.42	0.6		pCi/L	1		08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.060 ± 0.76	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.27 ± 0.33	0.4		pCi/L	1		08/16/2000	JCP	P6220
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	15 ± 1.8	1		pCi/L	1		07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.42 ± 0.37	0.8		pCi/L	1		07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	7.9 ± 1.3	0.9		pCi/L	1		07/20/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.3 ± 1.4	3		pCi/L	1		08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.015 ± 0.61	1		pCi/L	1		08/07/2000	KEB	P6072

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103B</b>	Lab Sample ID: <b>0007138-02B</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-42 ± 41	70		pCi/L	1		08/09/2000	FT	P6188

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.1 ± 0.77	1	pCi/L	1	08/08/2000	CWP	P6022
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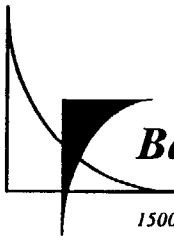
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103B</b>	Lab Sample ID: <b>0007138-02C</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	17 ± 210	400		pCi/L	1		08/07/2000	AWT	P6069

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103C</b>	Lab Sample ID: <b>0007138-03A</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0024	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	39 ± 23	40		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	46 ± 12	7		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	-77 ± 520	900		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	310 ± 160	300		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.31 ± 0.45	0.6		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.42	0.6		pCi/L	1		08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.29 ± 0.67	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.17 ± 0.33	0.4		pCi/L	1		08/16/2000	JCP	P6220
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	16 ± 1.8	1		pCi/L	1		07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.23 ± 0.39	0.7		pCi/L	1		07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	8.5 ± 1.3	0.8		pCi/L	1		07/20/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.35 ± 1.3	2		pCi/L	1		08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.12 ± 0.74	1		pCi/L	1		08/07/2000	KEB	P6072

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — Sample > 10 times blank result M - Maximum contaminant level exceeded λ - Late sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103C</b>	Lab Sample ID: <b>0007138-03B</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-65 ± 41	70		pCi/L	1		08/09/2000	FT	P6188
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.91 ± 0.75	1		pCi/L	1		08/08/2000	CWP	P6022

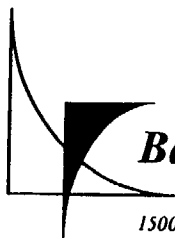
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103C</b>	Lab Sample ID: <b>0007138-03C</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-85 ± 200	300		pCi/L	1		08/07/2000	AWT	P6069

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-103D</b>	Lab Sample ID: <b>0007138-04A</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/11/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.024	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	45 ± 22	30		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	58 ± 14	7		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	-80 ± 530	900		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	370 ± 170	200		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.37 ± 0.52	0.7		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.43	0.6		pCi/L	1		08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.94 ± 0.68	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.12 ± 0.29	0.4		pCi/L	1		08/16/2000	JCP	P6220
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	14 ± 1.7	1		pCi/L	1		07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.32 ± 0.40	0.8		pCi/L	1		07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.6 ± 1.1	0.8		pCi/L	1		07/20/2000	KEB	P5792

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

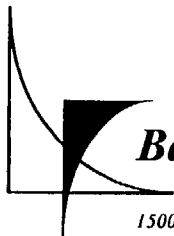
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-3.6 ± 1.7	3	pCi/L	1	08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.26 ± 0.52	1	pCi/L	1	08/07/2000	KEB	P6072

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-103D</b>				Lab Sample ID: <b>0007138-04B</b>					
Work Order: <b>0007138</b>		Tag Number:				Date Collected: <b>07/11/2000</b>					
Project:						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-62 ± 43	70		pCi/L	1		08/09/2000	FT	P6188
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.6 ± 0.72	1		pCi/L	1		08/08/2000	CWP	P6022

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-103D</b>				Lab Sample ID: <b>0007138-04C</b>					
Work Order: <b>0007138</b>		Tag Number:				Date Collected: <b>07/11/2000</b>					
Project:						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-77 ± 210	400		pCi/L	1		08/07/2000	AWT	P6069

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-104A</b>				Lab Sample ID: <b>0007138-05A</b>					
Work Order: <b>0007138</b>		Tag Number:				Date Collected: <b>07/12/2000</b>					
Project:						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.019	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	35 ± 23	40		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	37 ± 12	10		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	270 ± 470	800		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.50 ± 0.53	0.7		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.42	0.6		pCi/L	1		08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.39 ± 0.65	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.19 ± 0.43	0.6		pCi/L	1		08/16/2000	JCP	P6220

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Value at sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

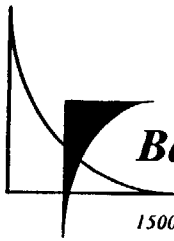
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.6	1	pCi/L	1	07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.28 ± 0.42	0.8	pCi/L	1	07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.2 ± 1.1	0.8	pCi/L	1	07/20/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.4 ± 1.4	3	pCi/L	1	08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.053 ± 0.51	0.8	pCi/L	1	08/07/2000	KEB	P6072

Client: Envirocare of Utah		Client Sample ID: <b>GW-104A</b>				Lab Sample ID: <b>0007138-05B</b>					
Work Order: 0007138		Tag Number:				Date Collected: 07/12/2000					
Project:						Matrix: Aqueous					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-42 ± 38	60		pCi/L	1		08/09/2000	FT	P6188
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.7 ± 0.80	1		pCi/L	1		08/08/2000	CWP	P6022

Client: Envirocare of Utah		Client Sample ID: <b>GW-104A</b>				Lab Sample ID: <b>0007138-05C</b>					
Work Order: 0007138		Tag Number:				Date Collected: 07/12/2000					
Project:						Matrix: Aqueous					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-110 ± 210	400		pCi/L	1		08/07/2000	AWT	P6069

Client: Envirocare of Utah		Client Sample ID: <b>GW-104B</b>				Lab Sample ID: <b>0007138-06A</b>					
Work Order: 0007138		Tag Number:				Date Collected: 07/12/2000					
Project:						Matrix: Aqueous					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.017	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	48 ± 22	40		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	47 ± 13	9		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	640 ± 480	800		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/24/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.30 ± 0.45	0.6		pCi/L	1		08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.42	0.6		pCi/L	1		08/01/2000	CWP	P5812

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.15 ± 0.76	1		pCi/L	1		08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.29 ± 0.43	0.6		pCi/L	1		08/16/2000	JCP	P6220
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.7	1		pCi/L	1		07/20/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.47 ± 0.46	0.9		pCi/L	1		07/20/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.8 ± 1.2	1		pCi/L	1		07/20/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.0 ± 1.5	3		pCi/L	1		08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.86 ± 1.3	2		pCi/L	1		08/07/2000	KEB	P6072

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-104B**  
Tag Number:

Lab Sample ID: **0007138-06B**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-52 ± 36	60		pCi/L	1		08/09/2000	FT	P6188
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.93 ± 0.74	1		pCi/L	1		08/08/2000	CWP	P6022

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-104B**  
Tag Number:

Lab Sample ID: **0007138-06C**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-200 ± 190	300		pCi/L	1		08/07/2000	AWT	P6069

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

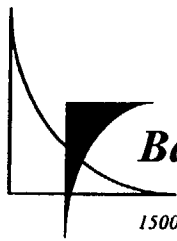
Client Sample ID: **GW-104C**  
Tag Number:

Lab Sample ID: **0007138-07A**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.018	0.0009		mg/L	1		08/02/2000	AGM	P6098
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	36 ± 23	40		pCi/L	1		07/26/2000	FT	P5964
Gross Alpha, dissolved	12587-46-1	EPA 00-02	56 ± 9.9	7		pCi/L	1		07/28/2000	AEW	P5981
Gross Beta, dissolved	12587-47-2	EPA 900.0	530 ± 480	800		pCi/L	1		07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/25/2000	LLC	A8649A

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 O - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 P - Result > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit





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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.18 ± 0.40	0.6	pCi/L	1	08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.42	0.6	pCi/L	1	08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.37 ± 0.67	1	pCi/L	1	08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.74 ± 0.48	0.4	pCi/L	1	08/16/2000	JCP	P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	15 ± 1.7	1	pCi/L	1	07/21/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.13 ± 0.40	0.7	pCi/L	1	07/21/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	7.5 ± 1.2	0.8	pCi/L	1	07/21/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.45 ± 1.0	2	pCi/L	1	08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.083 ± 0.48	0.8	pCi/L	1	08/07/2000	KEB	P6072

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-104C**  
Tag Number:

Lab Sample ID: **0007138-07B**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-23 ± 31	50		pCi/L	1		08/10/2000	FT	P6189
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.89 ± 0.76	1		pCi/L	1		08/08/2000	CWP	P6022

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-104C**  
Tag Number:

Lab Sample ID: **0007138-07C**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-21 ± 210	400		pCi/L	1		08/10/2000	AWT	P6070

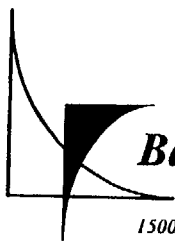
Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-104D**  
Tag Number:

Lab Sample ID: **0007138-08A**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.019	0.0009		mg/L	1		08/03/2000	AGM	P6151
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	34 ± 25	40		pCi/L	1		07/29/2000	FT	P5965
Gross Alpha, dissolved	12587-46-1	EPA 00-02	40 ± 12	9		pCi/L	1		08/02/2000	AEW	P5940

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 21-Aug-00

## CLIENT SAMPLE REPORT

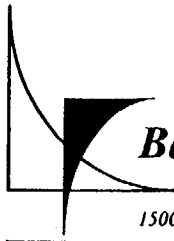
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Beta, dissolved	12587-47-2	EPA 900.0	37 ± 460	800		pCi/L	1	07/27/2000	AEW		P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1	07/25/2000	LLC		A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.79 ± 0.55	0.6		pCi/L	1	08/01/2000	RKB		P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.41	0.6		pCi/L	1	08/01/2000	CWP		P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.040 ± 0.63	1		pCi/L	1	08/04/2000	MTC		P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	1.6 ± 0.65	0.4		pCi/L	1	08/16/2000	JCP		P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.8	2		pCi/L	1	07/21/2000	KEB		P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.071 ± 0.57	1		pCi/L	1	07/21/2000	KEB		P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.1 ± 1.3	1		pCi/L	1	07/21/2000	KEB		P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.7 ± 1.6	3		pCi/L	1	08/07/2000	KEB		P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.0046 ± 0.83	1		pCi/L	1	08/07/2000	KEB		P6072

Client: Envirocare of Utah	Client Sample ID: <b>GW-104D</b>	Lab Sample ID: <b>0007138-08B</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-2.5 ± 34	50		pCi/L	1		08/10/2000	FT	P6189
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.7 ± 0.76	1		pCi/L	1		08/08/2000	CWP	P6022

Client: Envirocare of Utah	Client Sample ID: <b>GW-104D</b>	Lab Sample ID: <b>0007138-08C</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-64 ± 210	400		pCi/L	1		08/10/2000	AWT	P6070

Client: Envirocare of Utah	Client Sample ID: <b>GW-105A</b>	Lab Sample ID: <b>0007138-09A</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.014	0.0009		mg/L	1		08/03/2000	AGM	P6151

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	8.7 ± 26	40	pCi/L	1	07/29/2000	FT	P5965
Gross Alpha, dissolved	12587-46-1	EPA 00-02	24 ± 8.7	8	pCi/L	1	08/02/2000	AEW	P5940
Gross Beta, dissolved	12587-47-2	EPA 900.0	410 ± 440	700	pCi/L	1	07/27/2000	AEW	P5914
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300	pCi/L	1	07/25/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.93 ± 0.63	0.7	pCi/L	1	08/01/2000	RKB	P5982
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.2 ± 0.41	0.6	pCi/L	1	08/01/2000	CWP	P5812
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.090 ± 0.68	1	pCi/L	1	08/04/2000	MTC	P6087
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.12 ± 0.38	0.6	pCi/L	1	08/16/2000	JCP	P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	11 ± 1.5	1	pCi/L	1	07/21/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.42 ± 0.38	0.8	pCi/L	1	07/21/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.9 ± 1.0	0.8	pCi/L	1	07/21/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.5 ± 1.6	3	pCi/L	1	08/07/2000	KEB	P6072
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.42 ± 0.73	1	pCi/L	1	08/07/2000	KEB	P6072

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-105A**  
Tag Number:

Lab Sample ID: **0007138-09B**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-48 ± 34	60		pCi/L	1		08/10/2000	FT	P6189
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.6 ± 0.79	1		pCi/L	1		08/08/2000	CWP	P6022

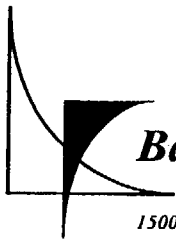
Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-105A**  
Tag Number:

Lab Sample ID: **0007138-09C**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	130 ± 220	400		pCi/L	1		08/10/2000	AWT	P6070

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-105B**  
Tag Number:

Lab Sample ID: **0007138-10A**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.014	0.0009		mg/L	1		08/03/2000	AGM	P6151
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	54 ± 25	40		pCi/L	1		07/29/2000	FT	P5965
Gross Alpha, dissolved	12587-46-1	EPA 00-02	32 ± 11	8		pCi/L	1		08/02/2000	AEW	P5940
Gross Beta, dissolved	12587-47-2	EPA 900.0	350 ± 460	800		pCi/L	1		07/28/2000	AEW	P5915
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/25/2000	LLC	A8649A
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.6 ± 0.57	0.6		pCi/L	1		08/01/2000	RKB	P5983
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.5 ± 0.45	0.6		pCi/L	1		08/07/2000	CWP	P6023
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	190 ± 3.0	1		pCi/L	1		08/09/2000	MTC	P6157
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.054 ± 0.36	0.6		pCi/L	1		08/16/2000	JCP	P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	10 ± 1.6	1		pCi/L	1		07/21/2000	KEB	P5792
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.44 ± 0.43	0.9		pCi/L	1		07/21/2000	KEB	P5792
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.6 ± 1.1	0.9		pCi/L	1		07/21/2000	KEB	P5792
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.58 ± 1.2	2		pCi/L	1		08/03/2000	KEB	P5977
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.45 ± 0.79	1		pCi/L	1		08/03/2000	KEB	P5977

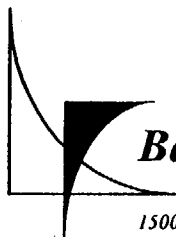
Client: **Envirocare of Utah**  
Work Order: **0007138**  
Project:

Client Sample ID: **GW-105B**  
Tag Number:

Lab Sample ID: **0007138-10B**  
Date Collected: **07/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-30 ± 34	50		pCi/L	1		08/10/2000	FT	P6189
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.80 ± 0.76	1		pCi/L	1		08/08/2000	CWP	P6022

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 U - Analyte detected in method blank L - Contract/Client reporting limit exceeded O - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Analyte sample(s) < 5 times limit



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Date: 21-Aug-00

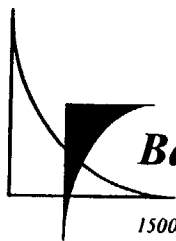
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105B</b>	Lab Sample ID: <b>0007138-10C</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	180 ± 210	300		pCi/L	1		08/10/2000	AWT	P6070

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105C</b>	Lab Sample ID: <b>0007138-11A</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.014	0.0009		mg/L	1		08/03/2000	AGM	P6151
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	41 ± 26	40		pCi/L	1		07/29/2000	FT	P5965
Gross Alpha, dissolved	12587-46-1	EPA 00-02	38 ± 12	9		pCi/L	1		08/02/2000	AEW	P5940
Gross Beta, dissolved	12587-47-2	EPA 900.0	150 ± 450	800		pCi/L	1		07/28/2000	AEW	P5915
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		07/25/2000	LLC	A8649B
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.0 ± 0.54	0.7		pCi/L	1		07/26/2000	RKB	P5905
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.9 ± 0.43	0.6		pCi/L	1		08/07/2000	CWP	P6023
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.010 ± 0.74	1		pCi/L	1		08/09/2000	MTC	P6157
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.84 ± 0.57	0.6		pCi/L	1		08/16/2000	JCP	P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	13 ± 2.2	2		pCi/L	1		08/09/2000	KEB	P5975
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.52 ± 0.61	1		pCi/L	1		08/09/2000	KEB	P5975
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.2 ± 1.4	1		pCi/L	1		08/09/2000	KEB	P5975
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	7.3 ± 2.3	3		pCi/L	1		08/03/2000	KEB	P5977
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.21 ± 0.74	1		pCi/L	1		08/03/2000	KEB	P5977

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105C</b>	Lab Sample ID: <b>0007138-11B</b>									
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-74 ± 35	60		pCi/L	1		08/10/2000	FT	P6189

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.0 ± 0.74	1	pCi/L	1	08/09/2000	CWP	P6193
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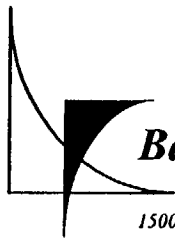
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105C</b>	Lab Sample ID: <b>0007138-11C</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	110 ± 220	400		pCi/L	1		08/10/2000	AWT	P6070

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105D</b>	Lab Sample ID: <b>0007138-12A</b>
Work Order: <b>0007138</b>	Tag Number:	Date Collected: <b>07/12/2000</b>
Project:		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.016	0.0009		mg/L	1		08/03/2000	AGM	P6151
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	29 ± 23	40		pCi/L	1		07/29/2000	FT	P5965
Gross Alpha, dissolved	12587-46-1	EPA 00-02	36 ± 11	7		pCi/L	1		08/02/2000	AEW	P5940
Gross Beta, dissolved	12587-47-2	EPA 900.0	510 ± 470	800		pCi/L	1		07/28/2000	AEW	P5915
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		07/25/2000	LLC	A8649B
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.6 ± 0.61	0.7		pCi/L	1		07/26/2000	RKB	P5906
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.0 ± 0.43	0.6		pCi/L	1		08/07/2000	CWP	P6023
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.32 ± 0.74	1		pCi/L	1		08/09/2000	MTC	P6157
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.063 ± 0.19	0.4		pCi/L	1		08/16/2000	JCP	P6221
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	9.4 ± 1.6	1		pCi/L	1		08/09/2000	KEB	P5975
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.38 ± 0.48	0.9		pCi/L	1		08/09/2000	KEB	P5975
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.5 ± 1.1	1		pCi/L	1		08/09/2000	KEB	P5975
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	6.4 ± 2.7	4		pCi/L	1		08/03/2000	KEB	P5977
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.91 ± 1.0	1		pCi/L	1		08/03/2000	KEB	P5977

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded U - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - L - Late sample(s) < 5 times limit



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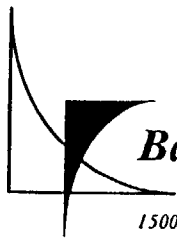
Date: 21-Aug-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105D</b>						Lab Sample ID: <b>0007138-12B</b>				
Work Order: <b>0007138</b>	Tag Number:						Date Collected: <b>07/12/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-48 ± 39	60		pCi/L	1		08/10/2000	FT	P618C
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.62 ± 0.75	1		pCi/L	1		08/09/2000	CWP	P6193

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-105D</b>						Lab Sample ID: <b>0007138-12C</b>				
Work Order: <b>0007138</b>	Tag Number:						Date Collected: <b>07/12/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	75 ± 210	400		pCi/L	1		08/10/2000	AWT	P6070

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 18-Sep-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0007251**  
Project: **LARW**

Client Sample ID: **MWPOND**

Tag Number:

Lab Sample ID: **0007251-01A**  
Date Collected: **07/19/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.75	0.004		mg/L	1		08/11/2000	AWT	P6276
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	67 ± 20	30		pCi/L	1		08/18/2000	FT	P6441
Gross Alpha, dissolved	12587-46-1	EPA 00-02	280 ± 20	6		pCi/L	1		08/22/2000	AEW	P6425
Gross Beta, dissolved	12587-47-2	EPA 900.0	600 ± 470	700	L	pCi/L	1		08/16/2000	AEW	P6270
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		08/03/2000	LLC	A8964
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	4.2 ± 1.1	0.7		pCi/L	1		08/08/2000	RKB	P6104
Radium-228, dissolved	15262-20-1	EPA 904.0M	16 ± 0.96	0.9		pCi/L	1		08/16/2000	CWP	P6197
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	5.9 ± 1.1	2		pCi/L	1		08/16/2000	MTC	P6308
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.20 ± 0.54	0.8		pCi/L	1		08/30/2000	JCP	P6406
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	190 ± 7.2	2		pCi/L	1		08/30/2000	KEB	P6539
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	7.5 ± 1.6	1		pCi/L	1		08/30/2000	KEB	P6539
Uranium-238, dissolved	7440-61-1	EPA 908.0M	220 ± 7.7	1		pCi/L	1		08/30/2000	KEB	P6539
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.58 ± 1.2	2	L	pCi/L	1		08/24/2000	KEB	P6332
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.089 ± 0.76	1		pCi/L	1		08/24/2000	KEB	P6332

Client: **Envirocare of Utah**  
Work Order: **0007251**  
Project: **LARW**

Client Sample ID: **MWPOND**

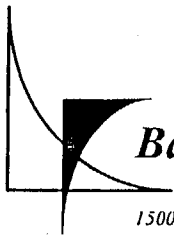
Tag Number:

Lab Sample ID: **0007251-01B**  
Date Collected: **07/19/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-3.1 ± 39	60		pCi/L	1		08/17/2000	FT	P6317
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.4 ± 0.75	1		pCi/L	1		08/09/2000	CWP	P6193

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit





# Barringer Laboratories, Inc.

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Date: 18-Sep-00

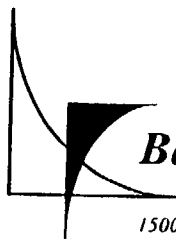
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: MWPOND	Lab Sample ID: 0007251-01C									
Work Order: 0007251	Tag Number:	Date Collected: 07/19/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	850 ± 240	400		pCi/L	1		08/11/2000	AWT	P6241

Client: Envirocare of Utah	Client Sample ID: P3-95	Lab Sample ID: 0007251-02A									
Work Order: 0007251	Tag Number:	Date Collected: 07/19/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	1.4	0.004		mg/L	1		08/11/2000	AWT	P6276
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	46 ± 18	30		pCi/L	1		08/18/2000	FT	P6441
Gross Alpha, dissolved	12587-46-1	EPA 00-02	390 ± 24	7		pCi/L	1		08/22/2000	AEW	P6425
Gross Beta, dissolved	12587-47-2	EPA 900.0	1100 ± 510	800	L	pCi/L	1		08/16/2000	AEW	P6270
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		08/03/2000	LLC	A8964
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.9 ± 0.76	0.6		pCi/L	1		08/09/2000	RKB	P6104
Radium-228, dissolved	15262-20-1	EPA 904.0M	10 ± 0.64	0.6		pCi/L	1		08/28/2000	CWP	P6459
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	20 ± 1.5	2		pCi/L	1		08/16/2000	MTC	P6308
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.014 ± 0.39	0.7		pCi/L	1		08/30/2000	JCP	P6406
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	260 ± 11	2		pCi/L	1		08/30/2000	KEB	P6539
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	16 ± 3.0	2		pCi/L	1		08/30/2000	KEB	P6539
Uranium-238, dissolved	7440-61-1	EPA 908.0M	490 ± 15	2		pCi/L	1		08/30/2000	KEB	P6539
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.36 ± 1.2	2	L	pCi/L	1		08/24/2000	KEB	P6332
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.39 ± 0.73	1		pCi/L	1		08/24/2000	KEB	P6332

Client: Envirocare of Utah	Client Sample ID: P3-95	Lab Sample ID: 0007251-02B									
Work Order: 0007251	Tag Number:	Date Collected: 07/19/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-53 ± 31	50		pCi/L	1		08/17/2000	FT	P6317

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 18-Sep-00

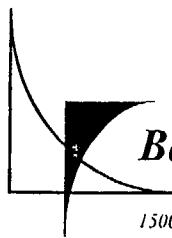
## CLIENT SAMPLE REPORT

Iodine-129, dissolved	15046-84-1	EPA 902.0	-2.2 ± 0.81	1	pCi/L	1	08/09/2000	CWP	P6193
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Client: Envirocare of Utah	Client Sample ID: P3-95	Lab Sample ID: 0007251-02C									
Work Order: 0007251	Tag Number:	Date Collected: 07/19/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	760 ± 230	300		pCi/L	1		08/11/2000	AWT	P6241

Client: Envirocare of Utah	Client Sample ID: P3-97	Lab Sample ID: 0007251-03A									
Work Order: 0007251	Tag Number:	Date Collected: 07/20/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	2.2	0.004		mg/L	1		08/11/2000	AWT	P6276
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	53 ± 19	30		pCi/L	1		08/18/2000	FT	P6441
Gross Alpha, dissolved	12587-46-1	EPA 00-02	340 ± 50	30		pCi/L	1		08/22/2000	AEW	P6425
Gross Beta, dissolved	12587-47-2	EPA 900.0	13000 ± 10000	20000	L	pCi/L	1		08/16/2000	AEW	P6270
Potassium-40, dissolved	13966-00-2	EPA 901.1	790	400		pCi/L	1		08/04/2000	LLC	A8964
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.6 ± 0.62	0.7		pCi/L	1		08/09/2000	RKB	P6104
Radium-228, dissolved	15262-20-1	EPA 904.0M	11 ± 0.65	0.6		pCi/L	1		08/28/2000	CWP	P6459
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	27 ± 1.7	2		pCi/L	1		08/16/2000	MTC	P6308
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.15 ± 0.40	0.6		pCi/L	1		08/30/2000	JCP	P6406
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	650 ± 24	5		pCi/L	1		08/31/2000	KEB	P6539
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	41 ± 6.9	4		pCi/L	1		08/31/2000	KEB	P6539
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1200 ± 32	4		pCi/L	1		08/31/2000	KEB	P6539
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.55 ± 1.2	2	L	pCi/L	1		08/24/2000	KEB	P6332
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.011 ± 0.68	1		pCi/L	1		08/24/2000	KEB	P6332

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 - Analyte detected in method blank L - Contract/Client reporting limit exceeded - outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Indicate sample(s) < 5 times limit



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Date: 18-Sep-00

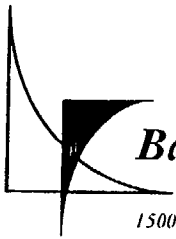
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>P3-97</b>						Lab Sample ID: <b>0007251-03B</b>			
Work Order: <b>0007251</b>		Tag Number:						Date Collected: <b>07/20/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-79 ± 42	70		pCi/L	1		08/17/2000	FT	P6317
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.79 ± 0.54	0.9		pCi/L	1		08/09/2000	CWP	P6193

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>P3-97</b>						Lab Sample ID: <b>0007251-03C</b>			
Work Order: <b>0007251</b>		Tag Number:						Date Collected: <b>07/20/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	350 ± 210	300		pCi/L	1		08/11/2000	AWT	P6241

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-904</b>						Lab Sample ID: <b>0007251-04A</b>			
Work Order: <b>0007251</b>		Tag Number:						Date Collected: <b>07/20/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	2.7	0.01		mg/L	1		08/11/2000	AWT	P6276
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	41 ± 21	30		pCi/L	1		08/18/2000	FT	P6441
Gross Alpha, dissolved	12587-46-1	EPA 00-02	400 ± 48	20		pCi/L	1		08/22/2000	AEW	P6425
Gross Beta, dissolved	12587-47-2	EPA 900.0	17000 ± 9700	20000	L	pCi/L	1		08/16/2000	AEW	P6270
Potassium-40, dissolved	13966-00-2	EPA 901.1	870	300		pCi/L	1		08/04/2000	LLC	A8964
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.9 ± 0.77	0.6		pCi/L	1		08/09/2000	RKB	P6104
Radium-228, dissolved	15262-20-1	EPA 904.0M	9.9 ± 0.63	0.6		pCi/L	1		08/28/2000	CWP	P6459
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	32 ± 1.7	2		pCi/L	1		08/16/2000	MTC	P6308
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.56 ± 0.52	0.5		pCi/L	1		08/30/2000	JCP	P6406
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	510 ± 20	4		pCi/L	1		08/31/2000	KEB	P6539
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	22 ± 4.7	3		pCi/L	1		08/31/2000	KEB	P6539
Uranium-238, dissolved	7440-01-1	EPA 908.0M	970 ± 27	3		pCi/L	1		08/31/2000	KEB	P6539

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 18-Sep-00

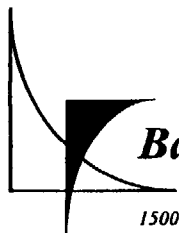
## CLIENT SAMPLE REPORT

Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.33 ± 0.78	1	pCi/L	1	09/14/2000	KEB	P6694
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.50 ± 0.35	0.5	pCi/L	1	09/14/2000	KEB	P6694

Client: Envirocare of Utah		Client Sample ID: <b>GW-904</b>				Lab Sample ID: 0007251-04B					
Work Order: 0007251		Tag Number:				Date Collected: 07/20/2000					
Project: LARW						Matrix: Aqueous					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-45 ± 41	70		pCi/L	1		08/17/2000	FT	P6317
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.2 ± 0.77	1		pCi/L	1		08/10/2000	CWP	P6193

Client: Envirocare of Utah		Client Sample ID: <b>GW-904</b>				Lab Sample ID: 0007251-04C					
Work Order: 0007251		Tag Number:				Date Collected: 07/20/2000					
Project: LARW						Matrix: Aqueous					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	490 ± 230	400		pCi/L	1		08/11/2000	AWT	P6241

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded G - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 10-Oct-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-19A</b>	Lab Sample ID: <b>0008080-01A</b>
Work Order: <b>0008080</b>	Tag Number:	Date Collected: <b>08/01/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0049	0.0009		mg/L	1		09/07/2000	AWT	P6662
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.61 ± 0.49	0.8	L	pCi/L	1		08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.38 ± 1.6	3	L	pCi/L	1		08/30/2000	KEB	P6507
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	2.5 ± 1.3	1		pCi/L	1		08/30/2000	KEB	P6507
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.72 ± 0.60	0.6		pCi/L	1		10/07/2000	KEB	P6995
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.039 ± 0.37	0.6		pCi/L	1		10/07/2000	KEB	P6995
Radium-226, total	13982-63-3	EPA 903.0M/SM 705M	-0.017 ± 0.38	0.6		pCi/L	1		08/30/2000	RKB	P6536

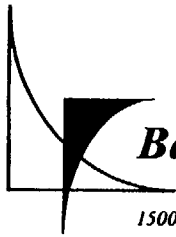
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-19A</b>	Lab Sample ID: <b>0008080-01B</b>
Work Order: <b>0008080</b>	Tag Number:	Date Collected: <b>08/01/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.99	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0008080-02A</b>
Work Order: <b>0008080</b>	Tag Number:	Date Collected: <b>08/01/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1		09/07/2000	AWT	P6662
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.0 ± 0.53	0.8		pCi/L	1		08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.5 ± 1.6	3		pCi/L	1		08/30/2000	KEB	P6507
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.017 ± 0.72	1		pCi/L	1		08/30/2000	KEB	P6507
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.49 ± 1.4	1		pCi/L	1		10/02/2000	KEB	P6995
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.36 ± 0.87	1		pCi/L	1		10/02/2000	KEB	P6995
Radium-226, total	13982-63-3	EPA 903.0M/SM 705M	0.70 ± 0.50	0.5		pCi/L	1		09/07/2000	CWP	P6556

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 10-Oct-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-63</b>							Lab Sample ID: <b>0008080-02B</b>			
Work Order: <b>0008080</b>	<b>Tag Number:</b>							Date Collected: <b>08/01/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.58	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-776</b>							Lab Sample ID: <b>0008080-03A</b>			
Work Order: <b>0008080</b>	<b>Tag Number:</b>							Date Collected: <b>08/01/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1		09/07/2000	AWT	P6662
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.53	0.8		pCi/L	1		08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.048 ± 1.2	2		pCi/L	1		08/30/2000	KEB	P6507
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.093 ± 0.56	0.9		pCi/L	1		08/30/2000	KEB	P6507
Radium-226, total	13982-63-3	EPA 903.0M/SM 705M	0.19 ± 0.41	0.6		pCi/L	1		09/07/2000	CWP	P6556

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-776</b>							Lab Sample ID: <b>0008080-03B</b>			
Work Order: <b>0008080</b>	<b>Tag Number:</b>							Date Collected: <b>08/01/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.75	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-60</b>							Lab Sample ID: <b>0008080-04A</b>			
Work Order: <b>0008080</b>	<b>Tag Number:</b>							Date Collected: <b>08/01/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.019	0.0009		mg/L	1		09/07/2000	AWT	P6662
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.52	0.8		pCi/L	1		08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.63 ± 1.5	3		pCi/L	1		08/30/2000	KEB	P6507
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	1.3 ± 0.91	1		pCi/L	1		08/30/2000	KEB	P6507
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.32 ± 1.4	1		pCi/L	1		10/02/2000	KEB	P6995

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded PD - Duplicate sample(s) < 5 times limit Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result M - Maximum contaminant level exceeded



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 10-Oct-00

## CLIENT SAMPLE REPORT

Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.31 ± 0.64	1	pCi/L	1	10/02/2000	KEB	P6995
Radium-226, total	13982-63-3	EPA 903.0M/SM 705M	0.51 ± 0.52	0.7	pCi/L	1	09/07/2000	CWP	P6556

Client: **Envirocare of Utah**  
 Work Order: **0008080**  
 Project: **11e.(2)**

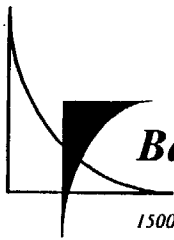
Client Sample ID: **GW-60**

Tag Number:

Lab Sample ID: **0008080-04B**  
 Date Collected: **08/01/2000**  
 Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.67	0.1		mg/L	1		08/15/2000	PKL	A8914a

**Qualifiers:** ND - Not detected at the reporting limit    J - Analyte detected below reporting limit    E - Value above quantitation range    S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank    L - Contract/Client reporting limit exceeded    R - RPD outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result    M - Maximum contaminant level exceeded    X - Duplicate sample(s) < 5 times limit



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Date: 27-Oct-00

## CLIENT SAMPLE REPORT

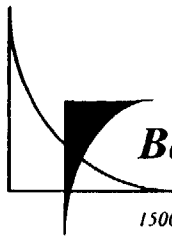
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-58</b>						Lab Sample ID: <b>0008081-01A</b>				
Work Order: <b>0008081</b>	Tag Number:						Date Collected: <b>08/03/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.046	0.0009		mg/L	1	08/31/2000	09/07/2000	AWT	P6662
Uranium, dissolved	11-09-6	ASTM D2907	0.032	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328
Uranium, dissolved	11-09-6	ASTM D2907	0.031	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	10/23/2000	10/20/2000	AWT	P7597
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	10/23/2000	10/20/2000	AWT	P7597
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.46 ± 0.51	0.7		pCi/L	1	09/06/2000	09/07/2000	CWP	P6556
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.86 ± 0.50	0.8		pCi/L	1	08/22/2000	08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.23 ± 0.56	0.4		pCi/L	1	09/20/2000	10/07/2000	KEB	P6995
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.51 ± 0.33	0.5		pCi/L	1	09/20/2000	10/07/2000	KEB	P6995

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-58</b>						Lab Sample ID: <b>0008081-01B</b>				
Work Order: <b>0008081</b>	Tag Number:						Date Collected: <b>08/03/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.90	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-57</b>						Lab Sample ID: <b>0008081-02A</b>				
Work Order: <b>0008081</b>	Tag Number:						Date Collected: <b>08/03/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0070	0.0009		mg/L	1	08/31/2000	09/07/2000	AWT	P6662
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.17 ± 0.42	0.6		pCi/L	1	09/06/2000	09/07/2000	CWP	P6556
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.26 ± 0.48	0.8		pCi/L	1	08/22/2000	08/28/2000	CWP	P6368
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.3 ± 1.5	3	L	pCi/L	1	08/23/2000	08/30/2000	KEB	P6509
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.34 ± 0.58	1		pCi/L	1	08/23/2000	08/30/2000	KEB	P6509

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 U - Analyte detected in method blank L - Contract/Client reporting limit exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 N - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 O - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 P - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Q - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 R - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 S - Spike outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 T - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 U - Analyte detected in method blank L - Contract/Client reporting limit exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 V - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 W - Sample result > 10 times blank result M - Maximum contaminant level exceeded X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 X - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Y - Unspiked sample > 4 times amount spiked





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Date: 27-Oct-00

## CLIENT SAMPLE REPORT

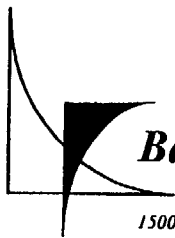
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-57</b>	Lab Sample ID: <b>0008081-02B</b>									
Work Order: <b>0008081</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.78	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27</b>	Lab Sample ID: <b>0008081-03A</b>									
Work Order: <b>0008081</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.037	0.0009		mg/L	1	08/31/2000	09/07/2000	AWT	P6662
Uranium, dissolved	11-09-6	ASTM D2907	0.021	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328
Uranium, dissolved	11-09-6	ASTM D2907	0.021	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328
Uranium, dissolved	11-09-6	ASTM D2907	0.028	0.0009		mg/L	1	10/23/2000	10/20/2000	AWT	P7597
Uranium, dissolved	11-09-6	ASTM D2907	0.028	0.0009		mg/L	1	10/23/2000	10/20/2000	AWT	P7597
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.39 ± 0.48	0.6		pCi/L	1	09/06/2000	09/07/2000	CWP	P6556
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.46 ± 0.47	0.8		pCi/L	1	08/30/2000	09/05/2000	CWP	P6635
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-3.7 ± 1.6	3	L	pCi/L	1	08/23/2000	08/30/2000	KEB	P6509
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.23 ± 0.69	1		pCi/L	1	08/23/2000	08/30/2000	KEB	P6509

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27</b>	Lab Sample ID: <b>0008081-03B</b>									
Work Order: <b>0008081</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.94	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-28</b>	Lab Sample ID: <b>0008081-04A</b>									
Work Order: <b>0008081</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.012	0.0009		mg/L	1	08/31/2000	09/07/2000	AWT	P6662
Uranium, dissolved	11-09-6	ASTM D2907	0.0082	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328
Uranium, dissolved	11-09-6	ASTM D2907	0.0081	0.0009		mg/L	1	10/06/2000	10/06/2000	AWT	P7328

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

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Date: 27-Oct-00

## CLIENT SAMPLE REPORT

Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	-0.028 ± 0.36	0.6	pCi/L	1	09/06/2000	09/07/2000	CWP	P6556
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.88 ± 0.49	0.8	pCi/L	1	08/30/2000	09/05/2000	CWP	P6635
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.85 ± 1.1	2	pCi/L	1	08/23/2000	08/30/2000	KEB	P6509
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.41 ± 0.67	0.9	pCi/L	1	08/23/2000	08/30/2000	KEB	P6509

Client: **Envirocare of Utah**

Work Order: **0008081**

Project: **11e.(2)**

Client Sample ID: **GW-28**

Tag Number:

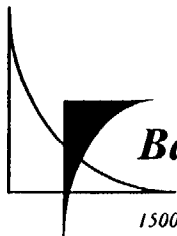
Lab Sample ID: **0008081-04B**

Date Collected: **08/03/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.85	0.1		mg/L	1		08/15/2000	PKL	A8914a

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

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Date: 11-Sep-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-58A</b>	Lab Sample ID: <b>0008082-01A</b>									
Work Order: <b>0008082</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.045 ± 0.54	0.9		pCi/L	1		08/30/2000	KEB	P6505

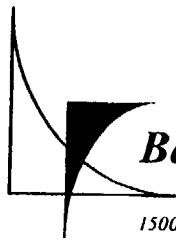
Client: Envirocare of Utah	Client Sample ID: <b>GW-58B</b>	Lab Sample ID: <b>0008082-02A</b>									
Work Order: <b>0008082</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.31 ± 0.33	0.8		pCi/L	1		08/30/2000	KEB	P6509

Client: Envirocare of Utah	Client Sample ID: <b>GW-58A</b>	Lab Sample ID: <b>0008082-03A</b>									
Work Order: <b>0008082</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, total	11-09-6	ASTM D2907	0.042	0.0009		mg/L	1		09/11/2000	AWT	P6663

Client: Envirocare of Utah	Client Sample ID: <b>GW-28A</b>	Lab Sample ID: <b>0008082-04A</b>									
Work Order: <b>0008082</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	0.33 ± 0.58	0.8		pCi/L	1		08/30/2000	KEB	P6509

Client: Envirocare of Utah	Client Sample ID: <b>GW-28A</b>	Lab Sample ID: <b>0008082-04B</b>									
Work Order: <b>0008082</b>	Tag Number:	Date Collected: <b>08/03/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, total	11-09-6	ASTM D2907	0.012	0.0009		mg/L	1		09/11/2000	AWT	P6663

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



**Barringer Laboratories, Inc.**

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 11-Sep-00

# CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-28B</b>							Lab Sample ID: <b>0008082-04C</b>			
Work Order: <b>0008082</b>	Tag Number:							Date Collected: <b>08/03/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, total	11-09-6	ASTM D2907	0.012	0.0009		mg/L	1		09/11/2000	AWT	P6663

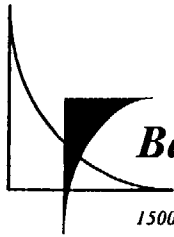
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-57A</b>							Lab Sample ID: <b>0008082-05A</b>			
Work Order: <b>0008082</b>	Tag Number:							Date Collected: <b>08/03/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.24 ± 0.43	0.9		pCi/L	1		08/30/2000	KEB	P6509

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-57A</b>							Lab Sample ID: <b>0008082-06A</b>			
Work Order: <b>0008082</b>	Tag Number:							Date Collected: <b>08/03/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, total	11-09-6	ASTM D2907	0.0072	0.0009		mg/L	1		09/11/2000	AWT	P6663

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27A</b>							Lab Sample ID: <b>0008082-07A</b>			
Work Order: <b>0008082</b>	Tag Number:							Date Collected: <b>08/03/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	0.38 ± 0.70	1		pCi/L	1		08/30/2000	KEB	P6509

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27B</b>							Lab Sample ID: <b>0008082-08A</b>			
Work Order: <b>0008082</b>	Tag Number:							Date Collected: <b>08/03/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.19 ± 0.55	1		pCi/L	1		08/30/2000	KEB	P6541

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 3 - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 nple > 10 times blank result M - Maximum contaminant level exceeded late sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 11-Sep-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27A</b>				Lab Sample ID: <b>0008082-09A</b>						
Work Order: <b>0008082</b>	Tag Number:				Date Collected: <b>08/03/2000</b>						
Project: <b>11e.(2)</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, total	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1		09/11/2000	AWT	P6663

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 04-Oct-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-19A-A</b>	Lab Sample ID: <b>0008083-01A</b>									
Work Order: <b>0008083</b>	Tag Number:	Date Collected: <b>08/01/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.0015 ± 0.61	1		pCi/L	1		09/01/2000	KEB	P6541

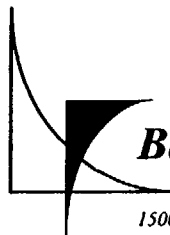
Client: Envirocare of Utah	Client Sample ID: <b>GW-19A-B</b>	Lab Sample ID: <b>0008083-02A</b>									
Work Order: <b>0008083</b>	Tag Number:	Date Collected: <b>08/01/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	0.42 ± 0.67	0.9		pCi/L	1		09/01/2000	KEB	P6541

Client: Envirocare of Utah	Client Sample ID: <b>GW-19A-A</b>	Lab Sample ID: <b>0008083-03A</b>									
Work Order: <b>0008083</b>	Tag Number:	Date Collected: <b>08/01/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	1.1	0.1		mg/L	1		08/15/2000	PKL	A8914a

Client: Envirocare of Utah	Client Sample ID: <b>GW-60</b>	Lab Sample ID: <b>0008083-04A</b>									
Work Order: <b>0008083</b>	Tag Number:	Date Collected: <b>08/01/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-230, total	14269-63-7	USAEC RMO 3008	0.21 ± 1.9	3		pCi/L	1		09/01/2000	KEB	P6541
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.053 ± 0.59	1		pCi/L	1		09/01/2000	KEB	P6541

Client: Envirocare of Utah	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0008083-05A</b>									
Work Order: <b>0008083</b>	Tag Number:	Date Collected: <b>08/01/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, total	7440-29-1	USAEC RMO 3008	-0.087 ± 0.58	1		pCi/L	1		09/11/2000	KEB	P6541

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 L - Contract/Client reporting limit exceeded O - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded U - Indicate sample(s) < 5 times limit



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Date: 29-Sep-00

## CLIENT SAMPLE REPORT

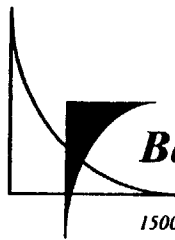
Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-26</b>						Lab Sample ID: <b>0008237-01A</b>			
Work Order: <b>0008237</b>		Tag Number:						Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.028	0.0009		mg/L	1	09/20/2000	AGM		P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.58 ± 0.55	0.7		pCi/L	1	09/05/2000	CEJ		P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.41	0.6		pCi/L	1	09/12/2000	CWP		P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.018 ± 1.7	2		pCi/L	1	09/25/2000	KEB		P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.23 ± 1.2	2		pCi/L	1	09/25/2000	KEB		P6993

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-26</b>						Lab Sample ID: <b>0008237-01B</b>			
Work Order: <b>0008237</b>		Tag Number:						Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.66	0.1		mg/L	1	08/28/2000	PKL		A9230a

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-25</b>						Lab Sample ID: <b>0008237-02A</b>			
Work Order: <b>0008237</b>		Tag Number:						Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.091	0.0009		mg/L	1	09/20/2000	AGM		P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.4 ± 0.86	0.6		pCi/L	1	09/05/2000	CEJ		P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.3 ± 0.43	0.6		pCi/L	1	09/12/2000	CWP		P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.27 ± 1.2	0.8		pCi/L	1	09/25/2000	KEB		P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.28 ± 0.63	0.9		pCi/L	1	09/25/2000	KEB		P6993

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-25</b>						Lab Sample ID: <b>0008237-02B</b>			
Work Order: <b>0008237</b>		Tag Number:						Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.87	0.1		mg/L	1	08/28/2000	PKL		A9230a

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 29-Sep-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **GW-20** Lab Sample ID: **0008237-03A**  
 Work Order: **0008237** Tag Number: Date Collected: **08/08/2000**  
 Project: **11e.(2)** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.5 ± 0.78	0.8		pCi/L	1		09/05/2000	CEJ	P6627
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.41	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.6 ± 1.4	0.9		pCi/L	1		09/25/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.099 ± 0.56	1		pCi/L	1		09/25/2000	KEB	P6993

Client: **Envirocare of Utah** Client Sample ID: **GW-20** Lab Sample ID: **0008237-03B**  
 Work Order: **0008237** Tag Number: Date Collected: **08/08/2000**  
 Project: **11e.(2)** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.65	0.1		mg/L	1		08/28/2000	PKL	A9230a

Client: **Envirocare of Utah** Client Sample ID: **GW-24** Lab Sample ID: **0008237-04A**  
 Work Order: **0008237** Tag Number: Date Collected: **08/08/2000**  
 Project: **11e.(2)** Matrix: **Aqueous**

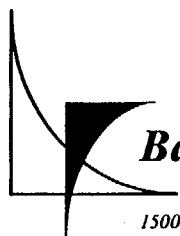
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.016	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.2 ± 0.73	0.8		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.4 ± 0.43	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.76 ± 2.4	2		pCi/L	1		09/27/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.43 ± 1.2	2		pCi/L	1		09/27/2000	KEB	P6993

Client: **Envirocare of Utah** Client Sample ID: **GW-24** Lab Sample ID: **0008237-04B**  
 Work Order: **0008237** Tag Number: Date Collected: **08/08/2000**  
 Project: **11e.(2)** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
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**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D - Duplicate sample(s) < 5 times limit Y - Unspiked sample > 4 times amount spik  
 Sample > 10 times blank result M - Maximum contaminant level exceeded





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Date: 29-Sep-00

## CLIENT SAMPLE REPORT

Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.78	0.1	mg/L	1	08/28/2000	PKL	A9230a
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Client: Envirocare of Utah  
 Work Order: 0008237  
 Project: 11e.(2)

Client Sample ID: **GW-29**  
 Tag Number:

Lab Sample ID: 0008237-05A  
 Date Collected: 08/08/2000  
 Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.022	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.1 ± 0.62	0.6		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.5 ± 0.43	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.5 ± 1.4	1		pCi/L	1		09/25/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.095 ± 0.71	1		pCi/L	1		09/25/2000	KEB	P6993

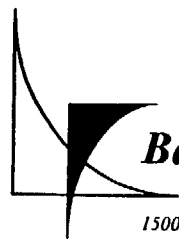
Client: Envirocare of Utah  
 Work Order: 0008237  
 Project: 11e.(2)

Client Sample ID: **GW-29**  
 Tag Number:

Lab Sample ID: 0008237-05B  
 Date Collected: 08/08/2000  
 Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.86	0.1		mg/L	1		08/28/2000	PKL	A9230a

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



**Barringer Laboratories, Inc.**

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 29-Sep-00

# CLIENT SAMPLE REPORT

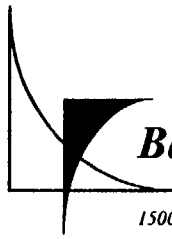
Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-26</b>							Lab Sample ID: <b>0008237-01A</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.028	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.58 ± 0.55	0.7		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.41	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.018 ± 1.7	2		pCi/L	1		09/25/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.23 ± 1.2	2		pCi/L	1		09/25/2000	KEB	P6993

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-26</b>							Lab Sample ID: <b>0008237-01B</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.66	0.1		mg/L	1		08/28/2000	PKL	A9230a

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-25</b>							Lab Sample ID: <b>0008237-02A</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.091	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.4 ± 0.86	0.6		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.3 ± 0.43	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.27 ± 1.2	0.8		pCi/L	1		09/25/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.28 ± 0.63	0.9		pCi/L	1		09/25/2000	KEB	P6993

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-25</b>							Lab Sample ID: <b>0008237-02B</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/07/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.87	0.1		mg/L	1		08/28/2000	PKL	A9230a

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 R - Sample > 10 times blank result M - Maximum contaminant level exceeded Cate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 29-Sep-00

## CLIENT SAMPLE REPORT

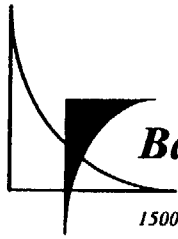
Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-20</b>							Lab Sample ID: <b>0008237-03A</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/08/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.5 ± 0.78	0.8		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.41	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.6 ± 1.4	0.9		pCi/L	1		09/25/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.099 ± 0.56	1		pCi/L	1		09/25/2000	KEB	P6993

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-20</b>							Lab Sample ID: <b>0008237-03B</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/08/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.65	0.1		mg/L	1		08/28/2000	PKL	A9230a

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-24</b>							Lab Sample ID: <b>0008237-04A</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/08/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.016	0.0009		mg/L	1		09/20/2000	AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.2 ± 0.73	0.8		pCi/L	1		09/05/2000	CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.4 ± 0.43	0.6		pCi/L	1		09/12/2000	CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.76 ± 2.4	2		pCi/L	1		09/27/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.43 ± 1.2	2		pCi/L	1		09/27/2000	KEB	P6993

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-24</b>							Lab Sample ID: <b>0008237-04B</b>			
Work Order: <b>0008237</b>	<b>Tag Number:</b>							Date Collected: <b>08/08/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 29-Sep-00

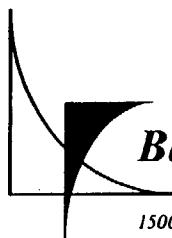
## CLIENT SAMPLE REPORT

Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.78	0.1	mg/L	1	08/28/2000	PKL	A9230a
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Client: Envirocare of Utah	Client Sample ID: <b>GW-29</b>				Lab Sample ID: <b>0008237-05A</b>						
Work Order: 0008237	Tag Number:				Date Collected: <b>08/08/2000</b>						
Project: 11e.(2)					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.022	0.0009		mg/L	1	09/20/2000		AGM	P6862
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.1 ± 0.62	0.6		pCi/L	1	09/05/2000		CEJ	P6637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.5 ± 0.43	0.6		pCi/L	1	09/12/2000		CWP	P6618
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.5 ± 1.4		1	pCi/L	1	09/25/2000		KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.095 ± 0.71		1	pCi/L	1	09/25/2000		KEB	P6993

Client: Envirocare of Utah	Client Sample ID: <b>GW-29</b>				Lab Sample ID: <b>0008237-05B</b>						
Work Order: 0008237	Tag Number:				Date Collected: <b>08/08/2000</b>						
Project: 11e.(2)					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.86	0.1		mg/L	1	08/28/2000		PKL	A9230a

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded ;outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 29-Sep-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-26A</b>						Lab Sample ID: 0008238-01A				
Work Order: 0008238	Tag Number:						Date Collected: 08/07/2000				
Project: 11e.(2)							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.031	0.0009		mg/L	1		09/15/2000	AWT	P6840
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	1.4 ± 2.3	2		pCi/L	1		09/27/2000	KEB	P6993
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.0033 ± 1.3	2		pCi/L	1		09/27/2000	KEB	P6993

Client: Envirocare of Utah	Client Sample ID: <b>GW-20A</b>						Lab Sample ID: 0008238-02A				
Work Order: 0008238	Tag Number:						Date Collected: 08/08/2000				
Project: 11e.(2)							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.18 ± 0.91	1		pCi/L	1		09/25/2000	KEB	P6993

Client: Envirocare of Utah	Client Sample ID: <b>GW-24A</b>						Lab Sample ID: 0008238-03A				
Work Order: 0008238	Tag Number:						Date Collected: 08/08/2000				
Project: 11e.(2)							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.89 ± 1.8	1		pCi/L	1		09/19/2000	KEB	P6879

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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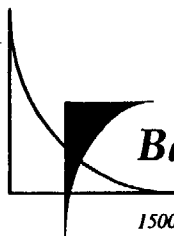
Date: 31-Oct-00

# CLIENT SAMPLE REPORT

Client: Envirocare of Utah		Client Sample ID: 1B						Lab Sample ID: 0009136-01A			
Work Order: 0009136		Tag Number: RCRA						Date Collected: 09/13/2000			
Project: RCRA								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.17	0.0009		mg/L	1	09/26/2000	09/29/2000	AGM	P7122
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	34000 ± 63		4	pCi/L	1	10/25/2000	10/26/2000	CMA	P7651
Gross Alpha, dissolved	12587-46-1	EPA 00-02	330 ± 37		10	pCi/L	1	10/16/2000	10/17/2000	AEW	P7441
Gross Beta, dissolved	12587-47-2	EPA 900.0	21000 ± 1100		900	pCi/L	1	10/10/2000	10/13/2000	AEW	P7375
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND		400	pCi/L	1		09/19/2000	LLC	A10329
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.33 ± 0.44		0.6	pCi/L	1	09/26/2000	09/29/2000	CWP	P7129
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.43		0.6	pCi/L	1	09/27/2000	10/09/2000	CWP	P7144
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	3.1 ± 1.1		2	pCi/L	1	09/25/2000	09/29/2000	MTC	P7105
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.42 ± 0.36		0.4	pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	240 ± 6.0		0.6	pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	10 ± 1.4		0.6	pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Uranium-238, dissolved	7440-61-1	EPA 908.0M	65 ± 3.1		0.6	pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.1 ± 1.8		1	pCi/L	1	10/16/2000	10/20/2000	KEB	P7457
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.14 ± 0.91		1	pCi/L	1	10/16/2000	10/20/2000	KEB	P7457

Client: Envirocare of Utah		Client Sample ID: 1B						Lab Sample ID: 0009136-01B			
Work Order: 0009136		Tag Number: RCRA						Date Collected: 09/13/2000			
Project: RCRA								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-18 ± 51		80	pCi/L	1	10/19/2000	10/23/2000	JCP	P7562
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.18 ± 0.78		1	pCi/L	1	10/02/2000	10/09/2000	CWP	P7141

**Qualifiers:** ND - Not detected at the reporting limit    J - Analyte detected below reporting limit    E - Value above quantitation range    S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank    L - Contract/Client reporting limit exceeded    X - Value outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result    M - Maximum contaminant level exceeded    Z - Late sample(s) < 5 times limit



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Date: 31-Oct-00

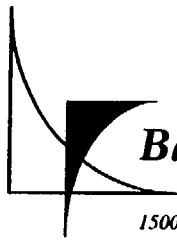
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>1B</b>							Lab Sample ID: <b>0009136-01C</b>			
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>							Date Collected: <b>09/13/2000</b>			
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	230. ± 450	700		pCi/L	1	10/11/2000	10/16/2000	ALZ	P7396

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>2B</b>							Lab Sample ID: <b>0009136-02A</b>			
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>							Date Collected: <b>09/13/2000</b>			
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.19	0.0009		mg/L	1	09/26/2000	09/29/2000	AGM	P7122
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	2600 ± 17	4		pCi/L	1	10/25/2000	10/26/2000	CMA	P7651
Gross Alpha, dissolved	12587-46-1	EPA 00-02	370 ± 39	10		pCi/L	1	10/16/2000	10/17/2000	AEW	P7441
Gross Beta, dissolved	12587-47-2	EPA 900.0	2400 ± 610	900	L	pCi/L	1	10/10/2000	10/13/2000	AEW	P7375
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	400		pCi/L	1		09/19/2000	LLC	A10329
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.014 ± 0.39	0.6		pCi/L	1	09/26/2000	09/29/2000	CWP	P7129
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.43	0.6		pCi/L	1	09/27/2000	10/09/2000	CWP	P7144
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	2.1 ± 0.99	2		pCi/L	1	09/25/2000	09/29/2000	MTC	P7105
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.48 ± 0.40	0.4		pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	120 ± 4.3	0.6		pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	5.5 ± 1.1	0.7		pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Uranium-238, dissolved	7440-61-1	EPA 908.0M	67 ± 3.2	0.6		pCi/L	1	10/17/2000	10/24/2000	KEB	P7499
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-4.6 ± 1.7	0.9		pCi/L	1	10/16/2000	10/20/2000	KEB	P7457
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.32 ± 0.69	1		pCi/L	1	10/16/2000	10/20/2000	KEB	P7457

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>2B</b>							Lab Sample ID: <b>0009136-02B</b>			
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>							Date Collected: <b>09/13/2000</b>			
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-270 ± 140	200		pCi/L	1	10/19/2000	10/23/2000	JCP	P7562

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Oct-00

## CLIENT SAMPLE REPORT

Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.61 ± 0.75	1	pCi/L	1	10/02/2000	10/09/2000	CWP	P7141
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Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>2B</b>	Lab Sample ID: <b>0009136-02C</b>
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>	Date Collected: <b>09/13/2000</b>
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>

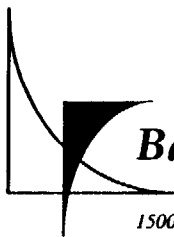
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	180 ± 440	700		pCi/L	1	10/11/2000	10/16/2000	ALZ	P7396

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>3B</b>	Lab Sample ID: <b>0009136-03A</b>
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>	Date Collected: <b>09/13/2000</b>
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.019	0.0009		mg/L	1	09/26/2000	09/29/2000	AGM	P7122
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	1700 ± 14	4		pCi/L	1	10/25/2000	10/26/2000	CMA	P7651
Gross Alpha, dissolved	12587-46-1	EPA 00-02	55 ± 18	20		pCi/L	1	10/16/2000	10/17/2000	AEW	P7441
Gross Beta, dissolved	12587-47-2	EPA 900.0	1400 ± 530	800	L	pCi/L	1	10/10/2000	10/13/2000	AEW	P7375
Potassium-40, dissolved	13966-00-2	EPA 901.1	440 ± 180	300		pCi/L	1		09/19/2000	LLC	A10329
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.41 ± 0.52	0.7		pCi/L	1	09/26/2000	09/29/2000	CWP	P7129
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.43	0.6		pCi/L	1	09/27/2000	10/09/2000	CWP	P7144
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.020 ± 0.93	2		pCi/L	1	09/25/2000	09/29/2000	MTC	P7105
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.63 ± 0.42	0.4		pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	10 ± 1.3	0.5		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.094 ± 0.34	0.6		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.2 ± 0.99	0.5		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.4 ± 1.2	1		pCi/L	1	10/16/2000	10/20/2000	KEB	P7457
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.17 ± 0.85	1		pCi/L	1	10/16/2000	10/20/2000	KEB	P7457

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded G - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit





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Date: 31-Oct-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>3B</b>	Lab Sample ID: <b>0009136-03B</b>
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>	Date Collected: <b>09/13/2000</b>
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-36 ± 21	40		pCi/L	1	10/19/2000	10/23/2000	JCP	P7562
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.26 ± 0.77	1		pCi/L	1	10/02/2000	10/09/2000	CWP	P7141

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>3B</b>	Lab Sample ID: <b>0009136-03C</b>
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>	Date Collected: <b>09/13/2000</b>
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-15 ± 440	700		pCi/L	1	10/11/2000	10/16/2000	ALZ	P7396

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>4B</b>	Lab Sample ID: <b>0009136-04A</b>
Work Order: <b>0009136</b>	Tag Number: <b>RCRA</b>	Date Collected: <b>09/13/2000</b>
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.076	0.0009		mg/L	1	09/26/2000	09/29/2000	AGM	P7122
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	840 ± 10	4		pCi/L	1	10/25/2000	10/26/2000	CMA	P7651
Gross Alpha, dissolved	12587-46-1	EPA 00-02	53 ± 16	10		pCi/L	1	10/16/2000	10/17/2000	AEW	P7441
Gross Beta, dissolved	12587-47-2	EPA 900.0	1100 ± 550	900	L	pCi/L	1	10/10/2000	10/13/2000	AEW	P7375
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	300		pCi/L	1		09/19/2000	LLC	A10329
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	-0.064 ± 0.40	0.7		pCi/L	1	09/26/2000	09/29/2000	CWP	P7129
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.41	0.6		pCi/L	1	09/27/2000	10/09/2000	CWP	P7144
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	6.6 ± 1.2	2		pCi/L	1	09/25/2000	09/29/2000	MTC	P7105
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.88 ± 0.50	0.4		pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	27 ± 2.1	0.6		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.11 ± 0.39	0.7		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-238, dissolved	7440-81-1	EPA 908.0M	27 ± 2.1	0.6		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Oct-00

CLIENT SAMPLE REPORT

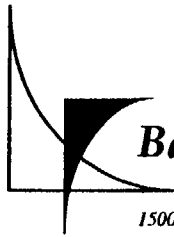
Table with 2 rows: Thorium-230, dissolved; Thorium-232, dissolved. Columns include CAS#, Method, Result, Limit, Qual, Unit, DF, and dates.

Client: Envirocare of Utah. Client Sample ID: 4B. Tag Number: RCRA. Lab Sample ID: 0009136-04B. Date Collected: 09/13/2000. Matrix: Aqueous. Table with 2 rows: Carbon-14, dissolved; Iodine-129, dissolved.

Client: Envirocare of Utah. Client Sample ID: 4B. Tag Number: RCRA. Lab Sample ID: 0009136-04C. Date Collected: 09/13/2000. Matrix: Aqueous. Table with 1 row: Tritium, dissolved.

Client: Envirocare of Utah. Client Sample ID: 1A. Tag Number: RCRA. Lab Sample ID: 0009136-05A. Date Collected: 09/12/2000. Matrix: Aqueous. Table with 10 rows: Barium, dissolved; Uranium, dissolved; Technetium-99, dissolved; Gross Alpha, dissolved; Gross Beta, dissolved; Potassium-40, dissolved; Alpha Radium, dissolved; Radium-228, dissolved; Strontium-89/90, dissolved.

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits
Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike
Sample > 10 times blank result M - Maximum contaminant level exceeded indicate sample(s) < 5 times limit



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## CLIENT SAMPLE REPORT

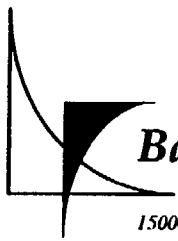
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.055 ± 0.27	0.4		pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	0.12 ± 1.4	1		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-1.2 ± 0.71	2		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.6 ± 1.3	1		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.80 ± 1.4	1		pCi/L	1	10/16/2000	10/27/2000	KEB	P7459
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.15 ± 0.73	1		pCi/L	1	10/16/2000	10/27/2000	KEB	P7459

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>1A</b>						Lab Sample ID: <b>0009136-05B</b>				
Work Order: <b>0009136</b>		Tag Number: <b>RCRA</b>						Date Collected: <b>09/12/2000</b>				
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-73 ± 42	70		pCi/L	1	10/19/2000	10/23/2000	JCP	P7562	
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.96 ± 0.67	1		pCi/L	1	10/02/2000	10/10/2000	CWP	P7141	

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>1A</b>						Lab Sample ID: <b>0009136-05C</b>				
Work Order: <b>0009136</b>		Tag Number: <b>RCRA</b>						Date Collected: <b>09/12/2000</b>				
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Tritium, dissolved	10028-17-8	EPA 906.0	410 ± 450	700		pCi/L	1	10/11/2000	10/16/2000	ALZ	P7396	

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>2A</b>						Lab Sample ID: <b>0009136-06A</b>				
Work Order: <b>0009136</b>		Tag Number: <b>RCRA</b>						Date Collected: <b>09/12/2000</b>				
Project: <b>RCRA</b>								Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Uranium, dissolved	11-09-6	ASTM D2907	0.072	0.0009		mg/L	1	09/26/2000	09/29/2000	AGM	P7122	
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	350 ± 6.8	4		pCi/L	1	10/25/2000	10/26/2000	CMA	P7651	
Gross Alpha, dissolved	12587-46-1	EPA 00-02	230 ± 81	70		pCi/L	1	10/16/2000	10/18/2000	AEW	P7441	
Gross Beta, dissolved	12587-47-2	EPA 900.0	3300 ± 660	900		pCi/L	1	10/10/2000	10/13/2000	AEW	P7375	
Potassium-40, dissolved	13966-00-2	EPA 901.1	2000 ± 380	300		pCi/L	1		09/19/2000	LLC	A10329	
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.22 ± 0.43	0.6		pCi/L	1	09/26/2000	09/29/2000	CWP	P7129	

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Oct-00

## CLIENT SAMPLE REPORT

Radium-228, dissolved	15282-20-1	EPA 904.0M	2.9 ± 1.2	2	L	pCi/L	1	09/27/2000	10/09/2000	CWP	P7144
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	3.6 ± 1.3	2		pCi/L	1	09/25/2000	09/29/2000	MTC	P7105
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.17 ± 0.30	0.4		pCi/L	1	10/19/2000	10/30/2000	JCP	P7567
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	22 ± 1.9	0.5		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.94 ± 0.53	0.6		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Uranium-238, dissolved	7440-61-1	EPA 908.0M	25 ± 1.9	0.5		pCi/L	1	10/17/2000	10/25/2000	KEB	P7499
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	1.5 ± 1.7	1		pCi/L	1	10/16/2000	10/23/2000	KEB	P7459
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.16 ± 0.99	2		pCi/L	1	10/16/2000	10/23/2000	KEB	P7459

Client: **Envirocare of Utah**  
Work Order: **0009136**  
Project: **RCRA**

Client Sample ID: **2A**  
Tag Number: **RCRA**

Lab Sample ID: **0009136-06B**  
Date Collected: **09/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-85 ± 68	100		pCi/L	1	10/19/2000	10/23/2000	JCP	P7562
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.3 ± 0.74	1		pCi/L	1	10/02/2000	10/09/2000	CWP	P7141

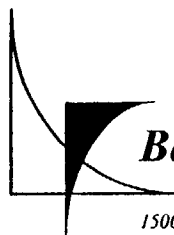
Client: **Envirocare of Utah**  
Work Order: **0009136**  
Project: **RCRA**

Client Sample ID: **2A**  
Tag Number: **RCRA**

Lab Sample ID: **0009136-06C**  
Date Collected: **09/12/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	60 ± 420	700		pCi/L	1	10/11/2000	10/16/2000	ALZ	P7396

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit X - Value above quantitation range S - Spike outside accepted recovery limits  
 O - Analyte detected in method blank L - Contract/Client reporting limit exceeded } outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Oct 00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0009216-01A</b>
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Alpha, dissolved	12587-46-1	EPA 00-02	30 ± 13	10		pCi/L	1	10/17/2000	10/19/2000	AEW	P7483

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-704</b>	Lab Sample ID: <b>0009216-02A</b>
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Alpha, dissolved	12587-46-1	EPA 00-02	60 ± 18	10		pCi/L	1	10/17/2000	10/19/2000	AEW	P7483

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-58</b>	Lab Sample ID: <b>0009216-03A</b>
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.034	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

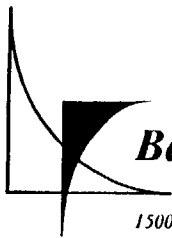
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-705</b>	Lab Sample ID: <b>0009216-04A</b>
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.038	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-27</b>	Lab Sample ID: <b>0009216-05A</b>
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.033	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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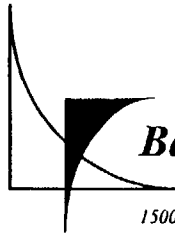
Date: 31-Oct-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-25</b>	Lab Sample ID: 0009216-06A									
Work Order: 0009216	Tag Number: <b>11e.(2)</b>	Date Collected: 09/19/2000									
Project: 11e.(2)		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	83 ± 3.1	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580
Uranium-238, dissolved	7440-61-1	EPA 908.0M	43 ± 2.2	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580

Client: Envirocare of Utah	Client Sample ID: <b>GW-706</b>	Lab Sample ID: 0009216-07A									
Work Order: 0009216	Tag Number: <b>11e.(2)</b>	Date Collected: 09/19/2000									
Project: 11e.(2)		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	86 ± 3.3	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580
Uranium-238, dissolved	7440-61-1	EPA 908.0M	46 ± 2.4	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded PD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit



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Date: 31-Oct-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0009216-01A</b>									
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Alpha, dissolved	12587-46-1	EPA 00-02	30 ± 13	10		pCi/L	1	10/17/2000	10/19/2000	AEW	P7483

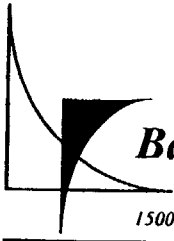
Client: Envirocare of Utah	Client Sample ID: <b>GW-704</b>	Lab Sample ID: <b>0009216-02A</b>									
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Alpha, dissolved	12587-46-1	EPA 00-02	60 ± 18	10		pCi/L	1	10/17/2000	10/19/2000	AEW	P7483

Client: Envirocare of Utah	Client Sample ID: <b>GW-58</b>	Lab Sample ID: <b>0009216-03A</b>									
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.034	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

Client: Envirocare of Utah	Client Sample ID: <b>GW-705</b>	Lab Sample ID: <b>0009216-04A</b>									
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.038	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

Client: Envirocare of Utah	Client Sample ID: <b>GW-27</b>	Lab Sample ID: <b>0009216-05A</b>									
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>	Date Collected: <b>09/19/2000</b>									
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.033	0.0009		mg/L	1	09/26/2000	09/26/2000	AWT	P7125

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Oct-00

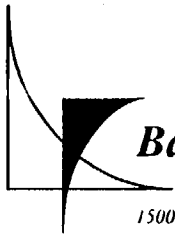
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-25</b>				Lab Sample ID: <b>0009216-06A</b>						
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>				Date Collected: <b>09/19/2000</b>						
Project: <b>11e.(2)</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	83 ± 3.1	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580
Uranium-238, dissolved	7440-61-1	EPA 908.0M	43 ± 2.2	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-706</b>				Lab Sample ID: <b>0009216-07A</b>						
Work Order: <b>0009216</b>	Tag Number: <b>11e.(2)</b>				Date Collected: <b>09/19/2000</b>						
Project: <b>11e.(2)</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	86 ± 3.3	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580
Uranium-238, dissolved	7440-61-1	EPA 908.0M	46 ± 2.4	0.6		pCi/L	1	10/20/2000	10/31/2000	KEB	P7580

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit





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Date: 30-Nov-00

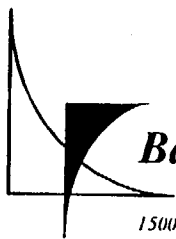
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-88</b>						Lab Sample ID: <b>0010029-01A</b>			
Work Order: <b>0010029</b>		Tag Number:						Date Collected: <b>10/03/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7775
Gross Alpha, dissolved	12587-46-1	EPA 00-02	43 ± 16	10	L	pCi/L	1	10/31/2000	11/01/2000	AEW	P7758
Gross Beta, dissolved	12587-47-2	EPA 900.0	220 ± 560	900	L	pCi/L	1	10/20/2000	10/23/2000	AEW	P7571
Potassium-40, dissolved	13966-00-2	EPA 901.1	510 ± 130	200		pCi/L	1		11/17/2000	LLC	A10507
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	5.8 ± 0.91	0.5		pCi/L	1	10/24/2000	10/30/2000	CEJ	P7637
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.42	0.6		pCi/L	1	10/23/2000	10/31/2000	CWP	P7590
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.030 ± 1.0	2		pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.056 ± 0.25	0.5		pCi/L	1	11/08/2000	11/21/2000	JCP	P7926
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	20 ± 1.5	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.48 ± 0.36	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-238, dissolved	7440-61-1	EPA 908.0M	20 ± 1.5	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.066 ± 0.50	0.4		pCi/L	1	11/02/2000	11/15/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.10 ± 0.21	0.4		pCi/L	1	11/02/2000	11/15/2000	KEB	P7820

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-88</b>						Lab Sample ID: <b>0010029-01B</b>			
Work Order: <b>0010029</b>		Tag Number:						Date Collected: <b>10/03/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-33 ± 18	30		pCi/L	1	11/10/2000	11/15/2000	JAW	P7984
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.21 ± 0.75	1		pCi/L	1	10/27/2000	11/06/2000	CWP	P7584

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-88</b>						Lab Sample ID: <b>0010029-01C</b>			
Work Order: <b>0010029</b>		Tag Number:						Date Collected: <b>10/03/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	29 ± 240	400		pCi/L	1	10/18/2000	10/30/2000	ALZ	P7511

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 30-Nov-00

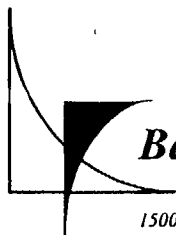
# CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-88</b>	Lab Sample ID: <b>0010029-01D</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	45	10		mg/L	20		10/18/2000	PKL	A10479a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>	Lab Sample ID: <b>0010029-02A</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0088	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7775
Gross Alpha, dissolved	12587-46-1	EPA 00-02	51 ± 19	20	L	pCi/L	1	10/31/2000	11/01/2000	AEW	P7758
Gross Beta, dissolved	12587-47-2	EPA 900.0	160 ± 500	800	L	pCi/L	1	10/20/2000	10/23/2000	AEW	P7571
Potassium-40, dissolved	13966-00-2	EPA 901.1	460 ± 120	200		pCi/L	1		11/17/2000	LLC	A10507
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.4 ± 0.47	0.4		pCi/L	1	10/24/2000	10/30/2000	CEJ	P7637
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.1 ± 0.43	0.6		pCi/L	1	10/23/2000	10/31/2000	CWP	P7590
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.80 ± 0.91	2		pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.20 ± 0.44	0.6		pCi/L	1	11/08/2000	11/21/2000	JCP	P7926
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	19 ± 1.5	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.55 ± 0.36	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-238, dissolved	7440-61-1	EPA 908.0M	21 ± 1.5	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.12 ± 0.62	0.5		pCi/L	1	11/02/2000	11/09/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.21 ± 0.43	0.6		pCi/L	1	11/02/2000	11/09/2000	KEB	P7820

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>	Lab Sample ID: <b>0010029-02B</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-66 ± 48	30		pCi/L	1	11/10/2000	11/15/2000	JAW	P7984

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded X - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 30-Nov-00

## CLIENT SAMPLE REPORT

Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.36 ± 0.78	1	pCi/L	1	10/27/2000	11/06/2000	CWP	P7584
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Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>	Lab Sample ID: <b>0010029-02C</b>
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-10 ± 230	400		pCi/L	1	10/18/2000	10/30/2000	ALZ	P7511

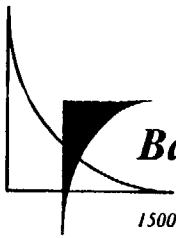
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>	Lab Sample ID: <b>0010029-02D</b>
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	54	10		mg/L	20		10/18/2000	PKL	A10479a

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0010029-03A</b>
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.013	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7775
Gross Alpha, dissolved	12587-46-1	EPA 00-02	42 ± 15	10	L	pCi/L	1	10/31/2000	11/01/2000	AEW	P7758
Gross Beta, dissolved	12587-47-2	EPA 900.0	280 ± 500	800	L	pCi/L	1	10/20/2000	10/23/2000	AEW	P7571
Potassium-40, dissolved	13966-00-2	EPA 901.1	350 ± 110	100		pCi/L	1		11/17/2000	LLC	A10507
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.3 ± 0.57	0.4		pCi/L	1	10/24/2000	10/30/2000	CEJ	P7637
Radium-228, dissolved	15262-20-1	EPA 904.0M	3.0 ± 0.46	0.6		pCi/L	1	10/23/2000	10/31/2000	CWP	P7590
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.16 ± 0.81	2		pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.41 ± 0.48	0.6		pCi/L	1	11/08/2000	11/21/2000	JCP	P7926
Uranium-233/234, dissolved	13966-29-5	EPA 908 0M	0.55 ± 0.52	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-235/236, dissolved	15117-96-1	EPA 908 0M	-0.26 ± 0.22	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-238, dissolved	7440-61-1	EPA 908 0M	2.1 ± 0.55	0.4		pCi/L	1	11/02/2000	11/09/2000	KEB	P7821

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 30-Nov-00

## CLIENT SAMPLE REPORT

Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	1.1 ± 0.73	0.5	pCi/L	1	11/02/2000	11/13/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.17 ± 0.40	0.6	pCi/L	1	11/02/2000	11/13/2000	KEB	P7820

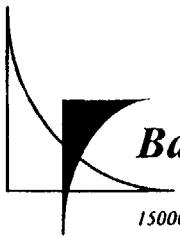
Client: Envirocare of Utah	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0010029-03B</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-29 ± 21	20		pCi/L	1	11/10/2000	11/15/2000	JAW	P7984
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.89 ± 0.72	1		pCi/L	1	10/27/2000	11/06/2000	CWP	P7584

Client: Envirocare of Utah	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0010029-03C</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-12 ± 240	400		pCi/L	1	10/18/2000	10/30/2000	ALZ	P7511

Client: Envirocare of Utah	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0010029-03D</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	44	10		mg/L	20		10/18/2000	PKL	A10479a

Client: Envirocare of Utah	Client Sample ID: <b>GW-91</b>	Lab Sample ID: <b>0010029-04A</b>									
Work Order: <b>0010029</b>	Tag Number:	Date Collected: <b>10/03/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0096	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7775
Gross Alpha, dissolved	12587-46-1	EPA 00-02	38 ± 14	10	L	pCi/L	1	10/31/2000	11/01/2000	AEW	P7758
Gross Beta, dissolved	12587-47-2	EPA 900.0	600 ± 500	800	L	pCi/L	1	10/20/2000	10/23/2000	AEW	P7571
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		10/12/2000	LLC	A10507
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.8 ± 0.53	0.4		pCi/L	1	10/24/2000	10/30/2000	CEJ	P7637

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — Sample > 10 times blank result M - Maximum contaminant level exceeded — Late sample(s) < 5 times limit



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# CLIENT SAMPLE REPORT

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Radium-228, dissolved	15262-20-1	EPA 904.0M	2.6 ± 0.45	0.6	pCi/L	1	10/23/2000	10/31/2000	CWP	P7590
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.53 ± 0.82	2	pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.19 ± 0.24	0.3	pCi/L	1	11/08/2000	11/21/2000	JCP	P7926
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	0.59 ± 0.40	0.3	pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.18 ± 0.18	0.3	pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.4 ± 0.42	0.3	pCi/L	1	11/02/2000	11/09/2000	KEB	P7821
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.049 ± 0.62	0.4	pCi/L	1	11/02/2000	11/13/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.083 ± 0.25	0.4	pCi/L	1	11/02/2000	11/13/2000	KEB	P7820

Client: **Envirocare of Utah** Client Sample ID: **GW-91** Lab Sample ID: **0010029-04B**  
 Work Order: **0010029** Tag Number: Date Collected: **10/03/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-21 ± 17	20		pCi/L	1	11/10/2000	11/15/2000	JAW	P7984
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.1 ± 0.81	1		pCi/L	1	10/27/2000	11/06/2000	CWP	P7584

Client: **Envirocare of Utah** Client Sample ID: **GW-91** Lab Sample ID: **0010029-04C**  
 Work Order: **0010029** Tag Number: Date Collected: **10/03/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-150 ± 220	400		pCi/L	1	10/18/2000	10/30/2000	ALZ	P7511

Client: **Envirocare of Utah** Client Sample ID: **GW-91** Lab Sample ID: **0010029-04D**  
 Work Order: **0010029** Tag Number: Date Collected: **10/03/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	55	10		mg/L	20		10/18/2000	PKL	A10479a



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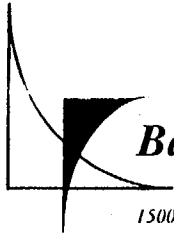
Date: 18-Oct-00

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-19A-A</b>				Lab Sample ID: 0010085-01A						
Work Order: 0010085	Tag Number:				Date Collected: 10/04/2000						
Project: 11e(2)					Matrix: Aqueous						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	1.2	0.1	M	mg/L	1		10/17/2000	SLA	A10487a

Client: Envirocare of Utah	Client Sample ID: <b>GW-601</b>				Lab Sample ID: 0010085-02A						
Work Order: 0010085	Tag Number:				Date Collected: 10/04/2000						
Project: 11e(2)					Matrix: Aqueous						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	1.2	0.1		mg/L	1		10/17/2000	SLA	A10487a

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 07-Dec-00

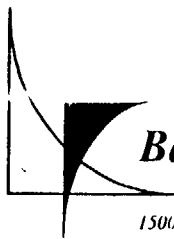
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-63</b>						Lab Sample ID: <b>0010086-02A</b>			
Work Order: <b>0010086</b>		Tag Number:						Date Collected: <b>10/05/2000</b>			
Project: <b>LARW,11e(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0094	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	29 ± 5.4	5		pCi/L	1	11/29/2000	12/05/2000	AEW	P8215
Gross Beta, dissolved	12587-47-2	EPA 900.0	-40 ± 550	900	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	360 ± 130	200		pCi/L	1		11/20/2000	LLC	A11029
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.12 ± 0.30	0.5		pCi/L	1	10/26/2000	10/30/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.1 ± 0.38	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.53 ± 0.77	2		pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.30 ± 0.37	0.4		pCi/L	1	11/08/2000	11/13/2000	JCP	P7905
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.1 ± 0.65	0.6		pCi/L	1	11/02/2000	11/13/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.57 ± 0.32	0.7		pCi/L	1	11/02/2000	11/13/2000	KEB	P7820

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-63</b>						Lab Sample ID: <b>0010086-02B</b>			
Work Order: <b>0010086</b>		Tag Number:						Date Collected: <b>10/05/2000</b>			
Project: <b>LARW,11e(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-23 ± 17	20		pCi/L	1	11/28/2000	11/28/2000	JCP	P8199
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.69 ± 0.59	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-63</b>						Lab Sample ID: <b>0010086-02C</b>			
Work Order: <b>0010086</b>		Tag Number:						Date Collected: <b>10/05/2000</b>			
Project: <b>LARW,11e(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	29 ± 230	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 07-Dec-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **GW-63** Lab Sample ID: **0010086-02D**  
 Work Order: **0010086** Tag Number: Date Collected: **10/05/2000**  
 Project: **LARW,11e(2)** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.78	0.1		mg/L	1		10/17/2000	SLA	A10487a
Bromide	24959-67-9	SW846 9056	64	10		mg/L	20		10/18/2000	PKL	A10479a

Client: **Envirocare of Utah** Client Sample ID: **GW-707** Lab Sample ID: **0010086-03A**  
 Work Order: **0010086** Tag Number: Date Collected: **10/05/2000**  
 Project: **LARW,11e(2)** Matrix: **Aqueous**

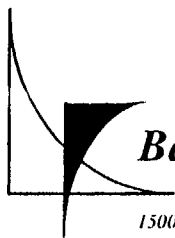
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	65 ± 20	20	L	pCi/L	1	10/31/2000	11/01/2000	AEW	P7758
Gross Beta, dissolved	12587-47-2	EPA 900.0	710 ± 490	800	L	pCi/L	1	10/27/2000	10/30/2000	AEW	P7704
Potassium-40, dissolved	13966-00-2	EPA 901.1	400 ± 120	200		pCi/L	1		11/20/2000	LLC	A11029
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.20 ± 0.34	0.5		pCi/L	1	10/26/2000	10/30/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.40	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	2.5 ± 0.94	2		pCi/L	1	10/20/2000	10/25/2000	MTC	P7583
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.17 ± 0.35	0.5		pCi/L	1	11/08/2000	11/13/2000	JCP	P7905
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.2 ± 0.75	0.6		pCi/L	1	11/02/2000	11/13/2000	KEB	P7820
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.25 ± 0.33	0.6		pCi/L	1	11/02/2000	11/13/2000	KEB	P7820

Client: **Envirocare of Utah** Client Sample ID: **GW-707** Lab Sample ID: **0010086-03B**  
 Work Order: **0010086** Tag Number: Date Collected: **10/05/2000**  
 Project: **LARW,11e(2)** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-24 ± 14	10		pCi/L	1	11/28/2000	11/28/2000	JCP	P8199
Iodine 129, dissolved	15046-84-1	EPA 902.0	-1.4 ± 0.73	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 blank - Analyte detected in method blank L - Contract/Client reporting limit exceeded O - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit





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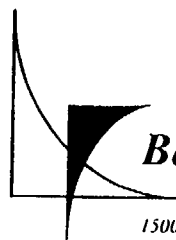
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## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-707</b>	Lab Sample ID: <b>0010086-03C</b>									
Work Order: <b>0010086</b>	Tag Number:	Date Collected: <b>10/05/2000</b>									
Project: <b>LARW,11e(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-87 ± 220	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Client: Envirocare of Utah	Client Sample ID: <b>GW-707</b>	Lab Sample ID: <b>0010086-03D</b>									
Work Order: <b>0010086</b>	Tag Number:	Date Collected: <b>10/05/2000</b>									
Project: <b>LARW,11e(2)</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.78	0.1		mg/L	1		10/17/2000	SLA	A10487a
Bromide	24959-67-9	SW846 9056	49	10		mg/L	20		10/18/2000	PKL	A10479a

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 04-Dec-00

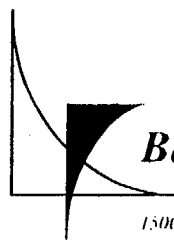
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: I-1-30</b>						Lab Sample ID: <b>0010087-01A</b>				
Work Order: <b>0010087</b>	<b>Tag Number:</b>						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.014	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	45 ± 16	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7796
Gross Beta, dissolved	12587-47-2	EPA 900.0	11 ± 220	400	L	pCi/L	1	10/31/2000	12/01/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		10/16/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.27 ± 0.35	0.5		pCi/L	1	10/26/2000	10/30/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.4 ± 0.43	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.41 ± 1.1	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7726
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.14 ± 0.29	0.6		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	9.4 ± 1.0	0.4		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.34 ± 0.22	0.4		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.5 ± 0.68	0.4		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.42 ± 0.55	0.5		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.51 ± 0.26	0.6		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: I-1-30</b>						Lab Sample ID: <b>0010087-01B</b>				
Work Order: <b>0010087</b>	<b>Tag Number:</b>						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-27 ± 22	20		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.57 ± 0.74	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: I-1-30</b>						Lab Sample ID: <b>0010087-01C</b>				
Work Order: <b>0010087</b>	<b>Tag Number:</b>						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-29 ± 220	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

**Qualifier:** ND - Not detected at the reporting limit    J - Analyte detected below reporting limit    Value above quantitation range    S - Spike outside accepted recovery limits  
 Analyte detected in method blank    L - Contract/Client reporting limit exceeded    outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result    M - Maximum contaminant level exceeded    Duplicate sample(s) < 5 times limit



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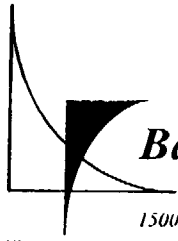
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## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-71</b>						Lab Sample ID: <b>0010087-02A</b>				
Work Order: <b>0010087</b>	<b>Tag Number:</b>						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	46 ± 16	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7736
Gross Beta, dissolved	12587-47-2	EPA 900.0	550 ± 510	800	L	pCi/L	1	10/31/2000	11/06/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		10/16/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.44 ± 0.34	0.4		pCi/L	1	10/26/2000	10/31/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.86 ± 0.37	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.89 ± 1.0	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7726
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.13 ± 0.39	0.6		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	6.7 ± 0.83	0.3		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.24 ± 0.21	0.4		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	3.0 ± 0.56	0.3		pCi/L	1	11/10/2000	11/16/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.73 ± 0.48	0.4		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.32 ± 0.25	0.5		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-71</b>						Lab Sample ID: <b>0010087-02B</b>				
Work Order: <b>0010087</b>	<b>Tag Number:</b>						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-27 ± 21	20		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.21 ± 0.72	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 04-Dec-00

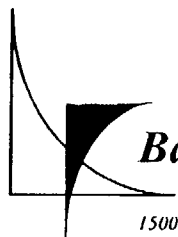
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-71</b>	Lab Sample ID: <b>0010087-02C</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	77 ± 230	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Client: Envirocare of Utah	Client Sample ID: <b>GW-659</b>	Lab Sample ID: <b>0010087-03A</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	31 ± 13	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7796
Gross Beta, dissolved	12587-47-2	EPA 900.0	530 ± 490	800	L	pCi/L	1	10/31/2000	11/06/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	280 ± 110	200		pCi/L	1		11/20/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.27 ± 0.32	0.4		pCi/L	1	10/26/2000	10/31/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.3 ± 0.39	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.52 ± 0.92	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7726
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.44 ± 0.50	0.6		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	7.4 ± 0.95	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.25 ± 0.23	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	2.8 ± 0.60	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.59 ± 0.51	0.5		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.48 ± 0.25	0.6		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Client: Envirocare of Utah	Client Sample ID: <b>GW-659</b>	Lab Sample ID: <b>0010087-03B</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-57 ± 49	30		pCi/L	1	11/22/2000	11/29/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.2 ± 0.78	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D - outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 sample > 10 times blank result M - Maximum contaminant level exceeded U - Indicate sample(s) < 5 times limit



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Date: 04-Dec-00

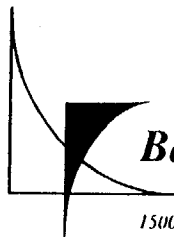
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-659</b>						Lab Sample ID: <b>0010087-03C</b>				
Work Order: <b>0010087</b>	Tag Number:						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	190 ± 230	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-79</b>						Lab Sample ID: <b>0010087-04A</b>				
Work Order: <b>0010087</b>	Tag Number:						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.012	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	48 ± 15	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7796
Gross Beta, dissolved	12587-47-2	EPA 900.0	440 ± 510	800	L	pCi/L	1	10/31/2000	11/06/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		10/16/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.90 ± 0.43	0.5		pCi/L	1	10/26/2000	10/31/2000	CEJ	P7694
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.2 ± 0.39	0.6		pCi/L	1	10/24/2000	11/01/2000	CWP	P7591
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.24 ± 0.90	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7726
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.32 ± 0.44	0.5		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	7.8 ± 0.95	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.14 ± 0.23	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.1 ± 0.65	0.4		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.32 ± 0.59	0.5		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.50 ± 0.30	0.7		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-79</b>						Lab Sample ID: <b>0010087-04B</b>				
Work Order: <b>0010087</b>	Tag Number:						Date Collected: <b>10/09/2000</b>				
Project: <b>RCRA</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14702-62-9	EPA 520.001M	50 ± 38	30		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 04-Dec-00

## CLIENT SAMPLE REPORT

Iodine-129, dissolved      15046-84-1    EPA 902.0      -0.90 ± 0.75      1      pCi/L      1      10/27/2000 11/03/2000    CWP      P7586

Client: Envirocare of Utah	Client Sample ID: <b>GW-79</b>	Lab Sample ID: 0010087-04C
Work Order: 0010087	Tag Number:	Date Collected: 10/09/2000
Project: RCRA		Matrix: Aqueous

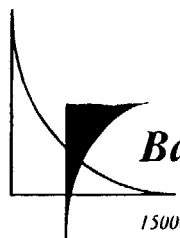
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-46 ± 220	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Client: Envirocare of Utah	Client Sample ID: <b>GW-666</b>	Lab Sample ID: 0010087-05A
Work Order: 0010087	Tag Number:	Date Collected: 10/09/2000
Project: RCRA		Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.013	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	44 ± 14	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7796
Gross Beta, dissolved	12587-47-2	EPA 900.0	160 ± 500	800	L	pCi/L	1	10/31/2000	11/06/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		10/16/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.0 ± 0.58	0.5		pCi/L	1	10/30/2000	11/01/2000	CEJ	P7748
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.40	0.6		pCi/L	1	10/26/2000	11/06/2000	CWP	P7696
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.010 ± 0.93	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7726
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.36 ± 0.44	0.5		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	8.7 ± 1.0	0.4		pCi/L	1	11/10/2000	11/21/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.24 ± 0.25	0.5		pCi/L	1	11/10/2000	11/21/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	3.9 ± 0.66	0.4		pCi/L	1	11/10/2000	11/21/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.52 ± 0.63	0.4		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.31 ± 0.27	0.6		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Qualifiers: ND - Not detected at the reporting limit    J - Analyte detected below reporting limit    F - Value above quantitation range    S - Spike outside accepted recovery limits  
 O - Analyte detected in method blank    L - Contract/Client reporting limit exceeded    U - Value outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 P - Sample > 10 times blank result    M - Maximum contaminant level exceeded    X - Duplicate sample(s) < 5 times limit

Date: 04-Dec-00



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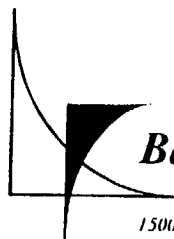
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-666</b>	Lab Sample ID: <b>0010087-05B</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-44 ± 24	20		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.52 ± 0.71	1		pCi/L	1	10/27/2000	11/03/2000	CWP	P7586

Client: Envirocare of Utah	Client Sample ID: <b>GW-666</b>	Lab Sample ID: <b>0010087-05C</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	110 ± 220	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Client: Envirocare of Utah	Client Sample ID: <b>GW-80</b>	Lab Sample ID: <b>0010087-06A</b>									
Work Order: <b>0010087</b>	Tag Number:	Date Collected: <b>10/09/2000</b>									
Project: <b>RCRA</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.012	0.0009		mg/L	1	10/31/2000	11/02/2000	AGM	P7776
Gross Alpha, dissolved	12587-46-1	EPA 00-02	34 ± 13	10	L	pCi/L	1	11/01/2000	11/02/2000	AEW	P7796
Gross Beta, dissolved	12587-47-2	EPA 900.0	280 ± 490	800	L	pCi/L	1	10/31/2000	11/06/2000	AEW	P7756
Potassium-40, dissolved	13966-00-2	EPA 901.1	330 ± 120	200		pCi/L	1		11/20/2000	LLC	A10509
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.80 ± 0.44	0.5		pCi/L	1	10/30/2000	11/01/2000	CEJ	P7748
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.0 ± 0.42	0.6		pCi/L	1	10/26/2000	11/06/2000	CWP	P7696
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.24 ± 0.99	2		pCi/L	1	10/27/2000	11/03/2000	MTC	P7776
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.11 ± 0.28	0.6		pCi/L	1	11/08/2000	11/15/2000	BPM	P7906
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	7.4 ± 1.0	0.5		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.075 ± 0.31	0.5		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.1 ± 0.71	0.5		pCi/L	1	11/10/2000	11/17/2000	KEB	P7973
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.69 ± 0.70	0.5		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.28 ± 0.33	0.6		pCi/L	1	11/09/2000	11/17/2000	KEB	P7949

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 04-Dec-00

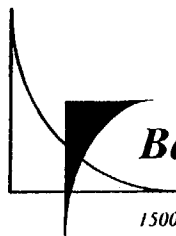
# CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-80</b>				Lab Sample ID: <b>0010087-06B</b>						
Work Order: <b>0010087</b>	Tag Number:				Date Collected: <b>10/09/2000</b>						
Project: <b>RCRA</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-33 ± 23	20		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.0 ± 0.77	1		pCi/L	1	11/02/2000	11/20/2000	CWP	P7826

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-80</b>				Lab Sample ID: <b>0010087-06C</b>						
Work Order: <b>0010087</b>	Tag Number:				Date Collected: <b>10/09/2000</b>						
Project: <b>RCRA</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Tritium, dissolved	10028-17-8	EPA 906.0	-17 ± 220	400		pCi/L	1	10/23/2000	11/03/2000	ALZ	P7606

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit □ Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded □ ND outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 ○ Sample > 10 times blank result M - Maximum contaminant level exceeded X Duplicate sample(s) < 5 times limit





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Date: 22-Nov-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0010166**  
Project: **11e.(2)**

Client Sample ID: **GW-19A**

Tag Number:

Lab Sample ID: **0010166-01A**  
Date Collected: **10/04/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0029	0.0009		mg/L	1	11/07/2000	11/10/2000	AWT	P7900
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	-0.061 ± 0.27	0.5		pCi/L	1	10/30/2000	11/01/2000	CEJ	P7749
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.96 ± 0.56	0.9	L	pCi/L	1	10/26/2000	11/06/2000	CWP	P7696
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.1 ± 0.76	0.4		pCi/L	1	11/09/2000	11/17/2000	KEB	P7950
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.067 ± 0.28	0.4		pCi/L	1	11/09/2000	11/17/2000	KEB	P7950

Client: **Envirocare of Utah**  
Work Order: **0010166**  
Project: **11e.(2)**

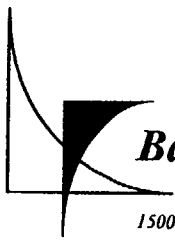
Client Sample ID: **GW-19A**

Tag Number:

Lab Sample ID: **0010166-01B**  
Date Collected: **10/04/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	1.1	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	20	10		mg/L	20		11/02/2000	PKL	A10895

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 22-Dec-00

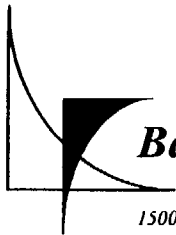
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-60</b>						Lab Sample ID: <b>0010185-01A</b>			
Work Order: <b>0010185</b>		Tag Number:						Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.016	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7920
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.2 ± 0.47	0.4		pCi/L	1	10/31/2000	11/03/2000	CEJ	P7770
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.3 ± 0.61	0.9	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.70 ± 0.87	0.5		pCi/L	1	11/15/2000	11/21/2000	AEW	P8038
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.096 ± 0.40	0.6		pCi/L	1	11/15/2000	11/21/2000	AEW	P8038

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-60</b>						Lab Sample ID: <b>0010185-01C</b>			
Work Order: <b>0010185</b>		Tag Number:						Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.66	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/14/2000	PKL	A11117

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-58</b>						Lab Sample ID: <b>0010185-02A</b>			
Work Order: <b>0010185</b>		Tag Number:						Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.038	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7920
Uranium, dissolved	11-09-6	ASTM D2907	0.033	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542
Uranium, dissolved	11-09-6	ASTM D2907	0.033	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.98 ± 0.40	0.4		pCi/L	1	10/31/2000	11/03/2000	CEJ	P7770
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.60	0.9	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.010 ± 0.73	0.6		pCi/L	1	11/15/2000	11/27/2000	AEW	P8038
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.33 ± 0.46	0.7		pCi/L	1	11/15/2000	11/27/2000	AEW	P8038

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 I - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 22-Dec-00

## CLIENT SAMPLE REPORT

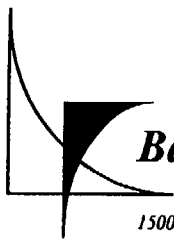
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Work Order: <b>0010185</b>		Tag Number:					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.93	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/14/2000	PKL	A11117

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-302</b>					Lab Sample ID: <b>0010185-03A</b>				
Work Order: <b>0010185</b>		Tag Number:					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7920
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.67 ± 0.46	0.6		pCi/L	1	10/31/2000	11/03/2000	CEJ	P7770
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.59	0.9	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.31 ± 0.80	0.5		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.17 ± 0.28	0.5		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-302</b>					Lab Sample ID: <b>0010185-03C</b>				
Work Order: <b>0010185</b>		Tag Number:					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.93	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/14/2000	PKL	A11117

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-28</b>					Lab Sample ID: <b>0010185-04A</b>				
Work Order: <b>0010185</b>		Tag Number:					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0092	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7920
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.25 ± 0.38	0.6		pCi/L	1	10/31/2000	11/03/2000	CEJ	P7770
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.58	0.9	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

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Date: 22-Dec-00

## CLIENT SAMPLE REPORT

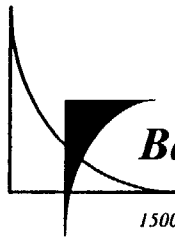
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.4 ± 1.0	0.6	pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.45 ± 0.46	0.6	pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-28</b>					Lab Sample ID: <b>0010185-04C</b>				
Work Order: <b>0010185</b>		<b>Tag Number:</b>					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.89	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/14/2000	PKL	A11117

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-57</b>					Lab Sample ID: <b>0010185-05A</b>				
Work Order: <b>0010185</b>		<b>Tag Number:</b>					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0032	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7920
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.13 ± 0.34	0.5		pCi/L	1	10/31/2000	11/08/2000	CEJ	P7770
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 1.1	2	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.52 ± 0.56	0.4		pCi/L	1	11/21/2000	11/29/2000	KEB	P8134
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.26 ± 0.29	0.6		pCi/L	1	11/21/2000	11/29/2000	KEB	P8134

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-57</b>					Lab Sample ID: <b>0010185-05C</b>				
Work Order: <b>0010185</b>		<b>Tag Number:</b>					Date Collected: <b>10/18/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	0.81	0.1		mg/L	1		10/24/2000	PKL	A10615
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/14/2000	PKL	A11117

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 26-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-58A</b>							Lab Sample ID: <b>0010186-01A</b>			
Work Order: <b>0010186</b>	Tag Number:							Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.026	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542

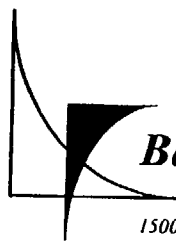
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-301</b>							Lab Sample ID: <b>0010186-02A</b>			
Work Order: <b>0010186</b>	Tag Number:							Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-28A</b>							Lab Sample ID: <b>0010186-03A</b>			
Work Order: <b>0010186</b>	Tag Number:							Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0070	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-28B</b>							Lab Sample ID: <b>0010186-04A</b>			
Work Order: <b>0010186</b>	Tag Number:							Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0071	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-57A</b>							Lab Sample ID: <b>0010186-05A</b>			
Work Order: <b>0010186</b>	Tag Number:							Date Collected: <b>10/18/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0037	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 26-Dec-00

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**

Work Order: **0010204**

Project: **11e.(2)**

Client Sample ID: **GW-27A**

Tag Number:

Lab Sample ID: **0010204-01A**

Date Collected: **10/19/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.030	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542
Uranium, dissolved	11-09-6	ASTM D2907	0.035	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded ND outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 sample > 10 times blank result M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit



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Date: 04-Dec-00

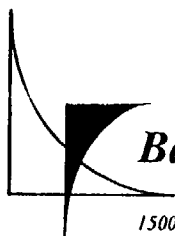
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-25</b>				Lab Sample ID: <b>0010202-01A</b>					
Work Order: <b>0010202</b>		Tag Number:				Date Collected: <b>10/19/2000</b>					
Project: <b>LARW, 11e.(2)</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.10	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921
Gross Alpha, dissolved	12587-46-1	EPA 00-02	140 ± 26	10		pCi/L	1	11/06/2000	11/10/2000	AEW	P7862
Gross Beta, dissolved	12587-47-2	EPA 900.0	500 ± 290	500	L	pCi/L	1	11/02/2000	11/29/2000	AEW	P7815
Potassium-40, dissolved	13966-00-2	EPA 901.1	380 ± 120	200		pCi/L	1		11/16/2000	LLC	A11400
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.9 ± 0.64	0.6		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.9 ± 0.42	0.6		pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.13 ± 0.63	2		pCi/L	1	11/02/2000	11/09/2000	MTC	P7834
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.12 ± 0.28	0.4		pCi/L	1	11/09/2000	11/27/2000	JCP	P7948
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	82 ± 2.8	0.4		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	1.3 ± 0.46	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-238, dissolved	7440-61-1	EPA 908.0M	46 ± 2.1	0.4		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-4.0 ± 1.2	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.29 ± 0.49	0.7		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-25</b>				Lab Sample ID: <b>0010202-01B</b>					
Work Order: <b>0010202</b>		Tag Number:				Date Collected: <b>10/19/2000</b>					
Project: <b>LARW, 11e.(2)</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-46 ± 27	20		pCi/L	1	11/22/2000	11/28/2000	JCP	P8169
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.57 ± 1.6	3	L	pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

Client: <b>Envirocare of Utah</b>		Client Sample ID: <b>GW-25</b>				Lab Sample ID: <b>0010202-01C</b>					
Work Order: <b>0010202</b>		Tag Number:				Date Collected: <b>10/19/2000</b>					
Project: <b>LARW, 11e.(2)</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluoride as Fluoride	7782-41-4	EPA 440.2M	ND	0.1		mg/L	1		11/07/2000	SLA	A11023

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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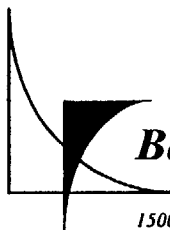
Date: 04-Dec-00

## CLIENT SAMPLE REPORT

Bromide	24959-67-9	SW846 9056	ND	10	mg/L	20	11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-130 ± 220	400	pCi/L	1	11/10/2000 11/29/2000	ALZ	P7980

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F Value above quantitation range S - Spike outside accepted recovery limits  
 blank sample > 10 times blank result L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X indicate sample(s) < 5 times limit





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Date: 26-Dec-00

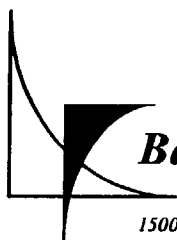
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-27</b>						Lab Sample ID: <b>0010203-01A</b>				
Work Order: <b>0010203</b>	<b>Tag Number:</b>						Date Collected: <b>10/19/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.028	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542
Uranium, dissolved	11-09-6	ASTM D2907	0.027	0.0009		mg/L	1	12/20/2000	12/20/2000	AWT	P8542
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.28 ± 0.36	0.5		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.0 ± 0.57	0.9	L	pCi/L	1	11/06/2000	11/13/2000	CWP	P7872
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.43 ± 0.40	0.5		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.81 ± 0.28	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-27</b>						Lab Sample ID: <b>0010203-01B</b>				
Work Order: <b>0010203</b>	<b>Tag Number:</b>						Date Collected: <b>10/19/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	ND	0.1		mg/L	1		11/07/2000	SLA	A11023
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-36</b>						Lab Sample ID: <b>0010203-02A</b>				
Work Order: <b>0010203</b>	<b>Tag Number:</b>						Date Collected: <b>10/19/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



**Barringer Laboratories, Inc.**

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 16-Jan-01

# CLIENT SAMPLE REPORT

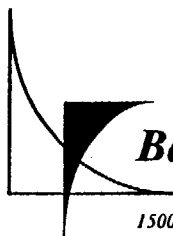
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-84</b>	Lab Sample ID: <b>0010250-01A</b>
Work Order: <b>0010250</b>	Tag Number:	Date Collected: <b>10/25/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.013	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.9 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	51 ± 16	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	540 ± 500	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	450 ± 130	200		pCi/L	1		11/22/2000	LLC	A11568
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.0 ± 0.58	0.4		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.2 ± 0.43	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8011
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.030 ± 0.60	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.31 ± 0.47	0.6		pCi/L	1	11/17/2000	12/07/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	7.8 ± 1.0	0.4		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.075 ± 0.26	0.4		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.5 ± 0.77	0.4		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.1 ± 0.68	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.19 ± 0.25	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-84</b>	Lab Sample ID: <b>0010250-01B</b>
Work Order: <b>0010250</b>	Tag Number:	Date Collected: <b>10/25/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-14 ± 24	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.51 ± 0.72	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

**Qualifiers:** ND - Not detected at the reporting limit    J - Analyte detected below reporting limit    E - Value above quantitation range    S - Spike outside accepted recovery limits  
 Analyte detected in method blank    L - Contract/Client reporting limit exceeded    ND outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 sample > 10 times blank result    M - Maximum contaminant level exceeded    Duplicate sample(s) < 5 times limit



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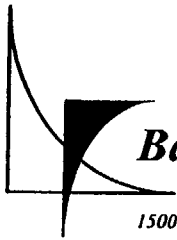
Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-84</b>							Lab Sample ID: <b>0010250-01C</b>			
Work Order: <b>0010250</b>	Tag Number:							Date Collected: <b>10/25/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	3.9 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-85</b>							Lab Sample ID: <b>0010250-02A</b>			
Work Order: <b>0010250</b>	Tag Number:							Date Collected: <b>10/25/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.013	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.4 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	45 ± 15	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	430 ± 500	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	360 ± 130	200		pCi/L	1		11/22/2000	LLC	A11568
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.3 ± 0.59	0.4		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.9 ± 0.45	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8011
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.48 ± 1.0	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.28 ± 0.22	0.3		pCi/L	1	11/17/2000	12/08/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	6.2 ± 1.3	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.034 ± 0.36	0.6		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	3.4 ± 0.91	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.5 ± 0.70	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.095 ± 0.28	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

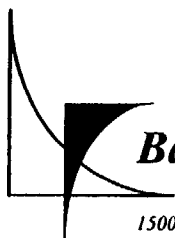
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-85</b>	Lab Sample ID: <b>0010250-02B</b>									
Work Order: <b>0010250</b>	Tag Number:	Date Collected: <b>10/25/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-20 ± 20	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.60 ± 0.74	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: Envirocare of Utah	Client Sample ID: <b>GW-85</b>	Lab Sample ID: <b>0010250-02C</b>									
Work Order: <b>0010250</b>	Tag Number:	Date Collected: <b>10/25/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	11	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	19 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: Envirocare of Utah	Client Sample ID: <b>GW-86</b>	Lab Sample ID: <b>0010250-03A</b>									
Work Order: <b>0010250</b>	Tag Number:	Date Collected: <b>10/25/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0084	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.9 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	46 ± 16	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	250 ± 470	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	420 ± 140	200		pCi/L	1		11/22/2000	LLC	A11568
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.2 ± 0.69	0.6		pCi/L	1	11/07/2000	11/14/2000	CEJ	P7885
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.41	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8012
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.4 ± 0.96	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.86 ± 0.59	0.6		pCi/L	1	11/17/2000	12/07/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	3.7 ± 1.0	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded O - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result M - Maximum contaminant level exceeded X - Indicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

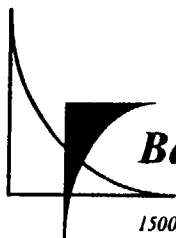
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.19 ± 0.28	0.5	pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.9 ± 0.71	0.5	pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.41 ± 0.31	0.4	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.37 ± 0.26	0.6	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Client: Envirocare of Utah	Client Sample ID: <b>GW-86</b>	Lab Sample ID: 0010250-03B									
Work Order: 0010250	Tag Number:	Date Collected: 10/25/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-12 ± 17	20		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	0.66 ± 0.81	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: Envirocare of Utah	Client Sample ID: <b>GW-86</b>	Lab Sample ID: 0010250-03C									
Work Order: 0010250	Tag Number:	Date Collected: 10/25/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	11	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	110 ± 240	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: Envirocare of Utah	Client Sample ID: <b>GW-406</b>	Lab Sample ID: 0010250-04A									
Work Order: 0010250	Tag Number:	Date Collected: 10/25/2000									
Project: LARW		Matrix: Aqueous									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0085	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	7.7 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	63 ± 22	20	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	660 ± 520	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	410 ± 130	200		pCi/L	1		11/27/2000	LLC	A11568
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.8 ± 0.54	0.5		pCi/L	1	11/07/2000	11/13/2000	CEJ	P7885

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Analyte	Sample ID	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.6 ± 0.44	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8012
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.0 ± 0.91	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.36 ± 0.24	0.3		pCi/L	1	11/17/2000	12/08/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	4.4 ± 0.96	0.5		pCi/L	1	11/21/2000	11/30/2000	KEB	P8136
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.40 ± 0.25	0.5		pCi/L	1	11/21/2000	11/30/2000	KEB	P8136
Uranium-238, dissolved	7440-61-1	EPA 908.0M	2.9 ± 0.70	0.5		pCi/L	1	11/21/2000	11/30/2000	KEB	P8136
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	1.4 ± 0.12	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.50 ± 0.28	0.6		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Client: **Envirocare of Utah**  
Work Order: **0010250**  
Project: **LARW**

Client Sample ID: **GW-406**

Tag Number:

Lab Sample ID: **0010250-04B**

Date Collected: **10/25/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-13 ± 17	20		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.90 ± 0.77	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: **Envirocare of Utah**  
Work Order: **0010250**  
Project: **LARW**

Client Sample ID: **GW-406**

Tag Number:

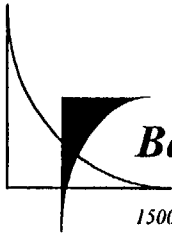
Lab Sample ID: **0010250-04C**

Date Collected: **10/25/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	12	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-130 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D - Duplicate sample(s) < 5 times limit  
 Sample > 10 times blank result M - Maximum contaminant level exceeded Y - Unspiked sample > 4 times amount spiked



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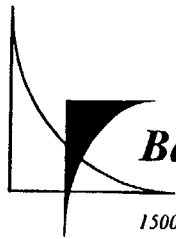
Date: 02-Jan-01

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-103</b>							Lab Sample ID: 0011021-01A			
Work Order: 0011021	Tag Number:							Date Collected: 10/30/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.030	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	33 ± 5.6	9		pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	63 ± 17	10	L	pCi/L	1	11/15/2000	11/20/2000	AEW	P8023
Gross Beta, dissolved	12587-47-2	EPA 900.0	340 ± 500	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	410 ± 120	200		pCi/L	1		11/27/2000	LLC	A11571
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.97 ± 0.44	0.5		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.2 ± 0.44	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.93 ± 0.94	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.23 ± 0.36	0.5		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	16 ± 1.3	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.26 ± 0.30	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	7.4 ± 0.88	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.0 ± 0.78	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.16 ± 0.31	0.6		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Client: Envirocare of Utah	Client Sample ID: <b>GW-103</b>							Lab Sample ID: 0011021-01B			
Work Order: 0011021	Tag Number:							Date Collected: 10/30/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-30 ± 26	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.57 ± 0.78	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 02-Jan-01

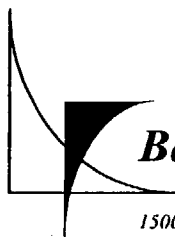
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-103</b>							Lab Sample ID: 0011021-01C			
Work Order: 0011021	Tag Number:							Date Collected: 10/30/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	12	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-210 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: Envirocare of Utah	Client Sample ID: <b>GW-104</b>							Lab Sample ID: 0011021-02A			
Work Order: 0011021	Tag Number:							Date Collected: 10/30/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.021	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	27 ± 5.5	9	L	pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	43 ± 18	10	L	pCi/L	1	11/15/2000	11/20/2000	AEW	P8023
Gross Beta, dissolved	12587-47-2	EPA 900.0	370 ± 510	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	250 ± 100	100		pCi/L	1		11/27/2000	LLC	A11571
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.1 ± 0.45	0.5		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.8 ± 0.43	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.83 ± 0.89	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.66 ± 0.49	0.5		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.1	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.27 ± 0.29	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.1 ± 0.79	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.8 ± 0.77	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.011 ± 0.32	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 ( ) Analyte detected in method blank L - Contract/Client reporting limit exceeded ( ) outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 ( ) Sample > 10 times blank result M - Maximum contaminant level exceeded ( ) Late sample(s) < 5 times limit





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Date: 02-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-104</b>							Lab Sample ID: <b>0011021-02B</b>			
Work Order: <b>0011021</b>	<b>Tag Number:</b>							Date Collected: <b>10/30/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	37 ± 20	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.47 ± 0.76	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-104</b>							Lab Sample ID: <b>0011021-02C</b>			
Work Order: <b>0011021</b>	<b>Tag Number:</b>							Date Collected: <b>10/30/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-91 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 18-Jan-01

## CLIENT SAMPLE REPORT

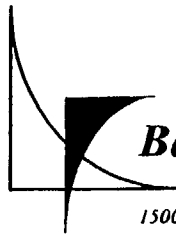
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-99</b>	Lab Sample ID: <b>0011084-01A</b>
Work Order: <b>0011084</b>	Tag Number:	Date Collected: <b>11/02/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0013	0.0009		mg/L	1	11/21/2000	12/06/2000	AWT	P8145
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.1 ± 2.8	5		pCi/L	1	01/13/2001	01/14/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	28 ± 14	10	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	730 ± 510	800	L	pCi/L	1	11/17/2000	11/20/2000	AEW	P8073
Potassium-40, dissolved	13966-00-2	EPA 901.1	290 ± 100	100		pCi/L	1		11/27/2000	LLC	A11626
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.072 ± 0.30	0.5		pCi/L	1	11/21/2000	11/22/2000	CEJ	P8061
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.43	0.6		pCi/L	1	11/27/2000	12/05/2000	CWP	P8193
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.24 ± 0.91	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.61 ± 0.33	0.3		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	2.2 ± 0.69	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.23 ± 0.26	0.5		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.6 ± 0.57	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.55 ± 0.67	0.5		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.20 ± 0.32	0.6		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-99</b>	Lab Sample ID: <b>0011084-01B</b>
Work Order: <b>0011084</b>	Tag Number:	Date Collected: <b>11/02/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-5.2 ± 18	30		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.44 ± 0.80	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded RD - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Sample > 10 times blank result M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit



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Date: 18-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-99</b>							Lab Sample ID: <b>0011084-01C</b>			
Work Order: <b>0011084</b>	Tag Number:							Date Collected: <b>11/02/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	24	10		mg/L	20		12/04/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	-47 ± 210	400		pCi/L	1	12/11/2000	12/16/2000	ALZ	P8409

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-94</b>							Lab Sample ID: <b>0011084-02A</b>			
Work Order: <b>0011084</b>	Tag Number:							Date Collected: <b>11/02/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.033	0.0009		mg/L	1	11/21/2000	12/06/2000	AWT	P8145
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.6 ± 2.8	5		pCi/L	1	01/13/2001	01/14/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	69 ± 27	20	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	1000 ± 520	800	L	pCi/L	1	11/17/2000	11/20/2000	AEW	P8073
Potassium-40, dissolved	13966-00-2	EPA 901.1	350 ± 100	100		pCi/L	1		11/27/2000	LLC	A11626
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.79 ± 0.40	0.5		pCi/L	1	11/21/2000	11/27/2000	CEJ	P8061
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.6 ± 0.43	0.6		pCi/L	1	11/27/2000	12/05/2000	CWP	P8193
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.030 ± 0.87	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.067 ± 0.39	0.6		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	18 ± 1.4	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.15 ± 0.28	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	9.5 ± 0.98	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.6 ± 0.84	0.6		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.041 ± 0.40	0.7		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 18-Jan-01

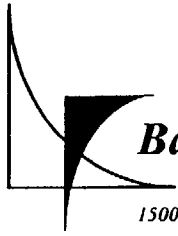
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-94</b>	Lab Sample ID: <b>0011084-02B</b>									
Work Order: <b>0011084</b>	Tag Number:	Date Collected: <b>11/02/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-5.3 ± 15	20		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.43 ± 0.80	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-94</b>	Lab Sample ID: <b>0011084-02C</b>									
Work Order: <b>0011084</b>	Tag Number:	Date Collected: <b>11/02/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/04/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	39 ± 210	400		pCi/L	1	12/11/2000	12/16/2000	ALZ	P8409

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-95</b>	Lab Sample ID: <b>0011084-03A</b>									
Work Order: <b>0011084</b>	Tag Number:	Date Collected: <b>11/02/2000</b>									
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.027	0.0009		mg/L	1	11/21/2000	12/06/2000	AWT	P8145
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	4.4 ± 2.8	5		pCi/L	1	01/13/2001	01/15/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	49 ± 15	10	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	670 ± 520	800	L	pCi/L	1	11/17/2000	11/20/2000	AEW	P8073
Potassium-40, dissolved	13966-00-2	EPA 901.1	310 ± 100	100		pCi/L	1		11/27/2000	LLC	A11626
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.13 ± 0.37	0.6		pCi/L	1	11/21/2000	11/22/2000	CEJ	P8061
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.42	0.6		pCi/L	1	11/27/2000	12/05/2000	CWP	P8193
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.13 ± 0.85	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.30 ± 0.46	0.6		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	18 ± 1.5	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487

Qualif: ND - Not detected at the reporting limit J - Analyte detected below reporting limit Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 Sample > 10 times blank result M - Maximum contaminant level exceeded X duplicate sample(s) < 5 times limit



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Date: 18-Jan-01

## CLIENT SAMPLE REPORT

Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.047 ± 0.28	0.5		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	9.5 ± 1.1	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.3 ± 0.78	0.6		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.13 ± 0.36	0.7		pCi/L	1	12/11/2000	12/13/2000	LLC	P8401

Client: **Envirocare of Utah**  
Work Order: **0011084**  
Project: **LARW**

Client Sample ID: **GW-95**

Tag Number:

Lab Sample ID: **0011084-03B**  
Date Collected: **11/02/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-8.8 ± 15	20		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	0.16 ± 0.70	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: **Envirocare of Utah**  
Work Order: **0011084**  
Project: **LARW**

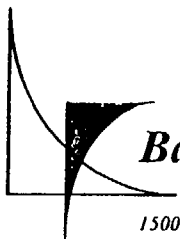
Client Sample ID: **GW-95**

Tag Number:

Lab Sample ID: **0011084-03C**  
Date Collected: **11/02/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/05/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	70 ± 220	400		pCi/L	1	12/11/2000	12/16/2000	ALZ	P8409

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 30-Nov-00

## CLIENT SAMPLE REPORT

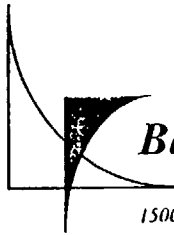
Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-24A</b>	Lab Sample ID: <b>0010218-01A</b>
Work Order: <b>0010218</b>	<b>Tag Number:</b>	Date Collected: <b>10/23/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.17 ± 0.86	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.11 ± 0.38	0.7		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-402</b>	Lab Sample ID: <b>0010218-02A</b>
Work Order: <b>0010218</b>	<b>Tag Number:</b>	Date Collected: <b>10/23/2000</b>
Project: <b>11e.(2)</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.0 ± 1.1	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.089 ± 0.38	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded Date sample(s) < 5 times limit



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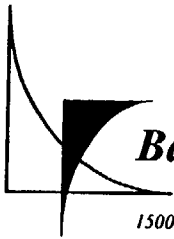
Date: 30-Nov-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-26</b>							Lab Sample ID: <b>0010219-01A</b>			
Work Order: <b>0010219</b>	Tag Number:							Date Collected: <b>10/23/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.030	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.67 ± 0.46	0.6		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.9 ± 0.59	0.9	L	pCi/L	1	11/06/2000	11/15/2000	CWP	P7873
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-2.6 ± 0.99	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.11 ± 0.40	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-26</b>							Lab Sample ID: <b>0010219-01B</b>			
Work Order: <b>0010219</b>	Tag Number:							Date Collected: <b>10/23/2000</b>			
Project: <b>11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	ND	0.1		mg/L	1		11/07/2000	SLA	A11023
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 09-Jan-01

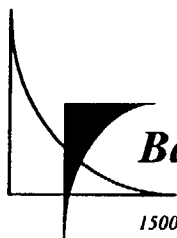
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah		Client Sample ID: <b>GW-20</b>						Lab Sample ID: <b>0010220-01A</b>			
Work Order: <b>0010220</b>		Tag Number:						Date Collected: <b>10/23/2000</b>			
Project: <b>LARW 11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0091	0.0009		mg/L	1	11/08/2000	11/27/2000	AWT	P7921
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 3.5	6	L	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	45 ± 15	10	L	pCi/L	1	11/06/2000	11/10/2000	AEW	P7862
Gross Beta, dissolved	12587-47-2	EPA 900.0	340 ± 530	800	L	pCi/L	1	11/06/2000	11/09/2000	AEW	P7860
Potassium-40, dissolved	13966-00-2	EPA 901.1	410 ± 130	200		pCi/L	1		11/16/2000	LLC	A11401
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.6 ± 0.57	0.6		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.40	0.6		pCi/L	1	11/06/2000	11/15/2000	CWP	P7873
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.090 ± 0.84	2		pCi/L	1	11/02/2000	11/10/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.13 ± 0.31	0.4		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	5.9 ± 0.98	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.11 ± 0.31	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-238, dissolved	7440-61-1	EPA 908.0M	2.9 ± 0.66	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.16 ± 0.74	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.30 ± 0.42	0.6		pCi/L	1	11/20/2000	11/28/2000	KEB	P8100

Client: Envirocare of Utah		Client Sample ID: <b>GW-20</b>						Lab Sample ID: <b>0010220-01B</b>			
Work Order: <b>0010220</b>		Tag Number:						Date Collected: <b>10/23/2000</b>			
Project: <b>LARW 11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	ND	0.1		mg/L	1		11/07/2000	SLA	A11023
Bromide	24959-67-9	SW846 9056	10	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-44 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - L - Late sample(s) < 5 times limit





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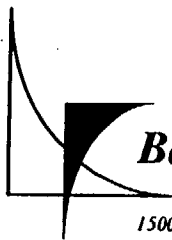
Date: 09-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-20</b>							Lab Sample ID: <b>0010220-01C</b>			
Work Order: <b>0010220</b>	Tag Number:							Date Collected: <b>10/23/2000</b>			
Project: <b>LARW 11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-17 ± 18	30		pCi/L	1	11/22/2000	12/06/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.84 ± 0.79	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-24</b>							Lab Sample ID: <b>0010220-02A</b>			
Work Order: <b>0010220</b>	Tag Number:							Date Collected: <b>10/23/2000</b>			
Project: <b>LARW 11e.(2)</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.018	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 ± 3.4	6	L	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	48 ± 15	10	L	pCi/L	1	11/06/2000	11/10/2000	AEW	P7862
Gross Beta, dissolved	12587-47-2	EPA 900.0	-23 ± 490	800	L	pCi/L	1	11/06/2000	11/09/2000	AEW	P7860
Potassium-40, dissolved	13966-00-2	EPA 901.1	350 ± 110	100		pCi/L	1		11/16/2000	LLC	A11401
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.84 ± 0.45	0.5		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.40	0.6		pCi/L	1	11/06/2000	11/15/2000	CWP	P7873
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.27 ± 0.60	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.11 ± 0.32	0.5		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	11 ± 1.1	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.063 ± 0.30	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.3 ± 0.85	0.5		pCi/L	1	11/10/2000	11/20/2000	KEB	P7975
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.13 ± 0.28	0.3		pCi/L	1	11/20/2000	11/27/2000	KEB	P8114
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.35 ± 0.18	0.4		pCi/L	1	11/20/2000	11/27/2000	KEB	P8114

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 09-Jan-01

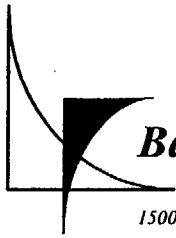
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-24</b>				Lab Sample ID: <b>0010220-02B</b>						
Work Order: 0010220	Tag Number:				Date Collected: <b>10/23/2000</b>						
Project: LARW 11e.(2)					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Fluorine as Fluoride	7782-41-4	EPA 340.2M	ND	0.1		mg/L	4		11/07/2000	SLA	A11023
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-74 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Client: Envirocare of Utah	Client Sample ID: <b>GW-24</b>				Lab Sample ID: <b>0010220-02C</b>						
Work Order: 0010220	Tag Number:				Date Collected: <b>10/23/2000</b>						
Project: LARW 11e.(2)					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-35 ± 21	30		pCi/L	1	11/22/2000	12/05/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.1 ± 0.77	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

Client: Envirocare of Utah	Client Sample ID: <b>GW-23</b>				Lab Sample ID: <b>0010220-03A</b>						
Work Order: 0010220	Tag Number:				Date Collected: <b>10/23/2000</b>						
Project: LARW 11e.(2)					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.021	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 ± 3.4	6	L	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	37 ± 13	10	L	pCi/L	1	11/06/2000	11/10/2000	AEW	P7862
Gross Beta, dissolved	12587-47-2	EPA 900.0	190 ± 290	500	L	pCi/L	1	11/06/2000	11/29/2000	AEW	P7860
Potassium-40, dissolved	13966-00-2	EPA 901.1	510 ± 140	200		pCi/L	1		11/16/2000	LLC	A11401
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.55 ± 0.43	0.6		pCi/L	1	11/01/2000	11/07/2000	CEJ	P7800
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.40	0.6		pCi/L	1	11/06/2000	11/15/2000	CWP	P7873
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.25 ± 0.62	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	11994-20-2	EPA 907.0M/520M	0.33 ± 0.39	0.4		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 09-Jan-01

## CLIENT SAMPLE REPORT

Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	14 ± 1.2	0.3	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.19 ± 0.28	0.4	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.9 ± 0.83	0.3	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.5 ± 0.31	0.3	pCi/L	1	11/20/2000	11/27/2000	KEB	P8114
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.43 ± 0.15	0.3	pCi/L	1	11/20/2000	11/27/2000	KEB	P8114

Client: Envirocare of Utah  
Work Order: 0010220  
Project: LARW 11e.(2)

Client Sample ID: **GW-23**  
Tag Number:

Lab Sample ID: 0010220-03B  
Date Collected: 10/23/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	15	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	13 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

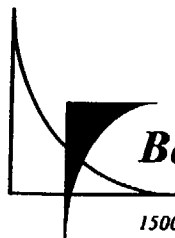
Client: Envirocare of Utah  
Work Order: 0010220  
Project: LARW 11e.(2)

Client Sample ID: **GW-23**  
Tag Number:

Lab Sample ID: 0010220-03C  
Date Collected: 10/23/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-66 ± 33	30		pCi/L	1	11/22/2000	12/06/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.36 ± 0.79	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-22</b>	Lab Sample ID: <b>0010243-01A</b>
Work Order: <b>0010243</b>	Tag Number:	Date Collected: <b>10/24/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.017	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	9.2 ± 4.4	7	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423
Gross Alpha, dissolved	12587-46-1	EPA 00-02	56 ± 17	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	280 ± 560	900	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	330 ± 130	200		pCi/L	1		11/17/2000	LLC	A11567
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.73 ± 0.43	0.5		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.0 ± 0.43	0.6		pCi/L	1	11/10/2000	11/17/2000	CWP	P7966
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.20 ± 0.67	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.17 ± 0.32	0.4		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	13 ± 1.6	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.060 ± 0.35	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.0 ± 1.0	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.97 ± 0.13	0.2		pCi/L	1	11/20/2000	11/28/2000	KEB	P8116
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.16 ± 0.15	0.3		pCi/L	1	11/20/2000	11/28/2000	KEB	P8116

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-22</b>	Lab Sample ID: <b>0010243-01B</b>
Work Order: <b>0010243</b>	Tag Number:	Date Collected: <b>10/24/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-18 ± 20	30		pCi/L	1	11/22/2000	12/05/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.68 ± 0.78	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 R - Analyte detected in method blank L - Contract/Client reporting limit exceeded PPD - PPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit



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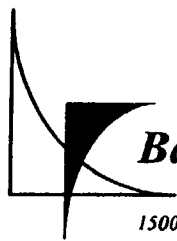
Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-22</b>						Lab Sample ID: <b>0010243-01C</b>				
Work Order: <b>0010243</b>	<b>Tag Number:</b>						Date Collected: <b>10/24/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	13	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	80 ± 230	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-81</b>						Lab Sample ID: <b>0010243-02A</b>				
Work Order: <b>0010243</b>	<b>Tag Number:</b>						Date Collected: <b>10/24/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0026	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 4.7	8	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423
Gross Alpha, dissolved	12587-46-1	EPA 00-02	43 ± 15	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	240 ± 560	900	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	380 ± 110	100		pCi/L	1		11/17/2000	LLC	A11567
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.57 ± 0.36	0.4		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.56 ± 0.38	0.6		pCi/L	1	11/10/2000	11/17/2000	CWP	P7966
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.71 ± 0.66	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.75 ± 0.51	0.5		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	1.5 ± 0.82	0.6		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.10 ± 0.35	0.6		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.5 ± 0.70	0.6		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.78 ± 0.52	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.096 ± 0.25	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **GW-81** Lab Sample ID: **0010243-02B**  
 Work Order: **0010243** Tag Number: Date Collected: **10/24/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-34 ± 20	20		pCi/L	1	11/22/2000	12/06/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.5 ± 0.78	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

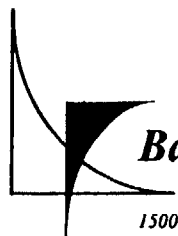
Client: **Envirocare of Utah** Client Sample ID: **GW-81** Lab Sample ID: **0010243-02C**  
 Work Order: **0010243** Tag Number: Date Collected: **10/24/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-140 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Client: **Envirocare of Utah** Client Sample ID: **GW-82** Lab Sample ID: **0010243-03A**  
 Work Order: **0010243** Tag Number: Date Collected: **10/24/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0029	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	4.0 ± 4.3	7	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423
Gross Alpha, dissolved	12587-46-1	EPA 00-02	16 ± 11	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	370 ± 490	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P79.1
Potassium-40, dissolved	13966-00-2	EPA 901.1	290 ± 100	100		pCi/L	1		11/17/2000	LLC	A11567
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.36 ± 0.41	0.6		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.79 ± 0.38	0.6		pCi/L	1	11/10/2000	11/17/2000	CWP	P7966
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.16 ± 0.60	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.42 ± 0.42	0.5		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	1.3 ± 0.91	0.5		pCi/L	1	11/28/2000	11/30/2000	LLC	P8203

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded RPD - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 sample > 10 times blank result M - Maximum contaminant level exceeded duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

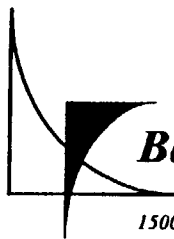
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.092 ± 0.35	0.6	pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.2 ± 0.65	0.5	pCi/L	1	11/28/2000	11/30/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	3.6 ± 0.30	0.3	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.035 ± 0.23	0.4	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-82</b>				Lab Sample ID: <b>0010243-03B</b>						
Work Order: <b>0010243</b>	<b>Tag Number:</b>				Date Collected: <b>10/24/2000</b>						
Project: <b>LARW</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-6.8 ± 21	30		pCi/L	1	11/22/2000	12/05/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.91 ± 0.76	1		pCi/L	1	11/02/2000	11/21/2000	CWP	P7827

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-82</b>				Lab Sample ID: <b>0010243-03C</b>						
Work Order: <b>0010243</b>	<b>Tag Number:</b>				Date Collected: <b>10/24/2000</b>						
Project: <b>LARW</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	78 ± 230	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-83</b>				Lab Sample ID: <b>0010243-04A</b>						
Work Order: <b>0010243</b>	<b>Tag Number:</b>				Date Collected: <b>10/24/2000</b>						
Project: <b>LARW</b>					Matrix: <b>Aqueous</b>						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0040	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.0 ± 4.5	7	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423
Gross Alpha, dissolved	12587-46-1	EPA 00-02	34 ± 14	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	800 ± 500	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	330 ± 130	200		pCi/L	1		11/17/2000	LLC	A11567
Radium-226 dissolved	13982-63-3	EPA 903 0M/SM 705M	0.73 ± 0.48	0.6		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Radium-228, dissolved	15262-20-1	EPA 904.0M	0.83 ± 0.38	0.6	pCi/L	1	11/14/2000	11/28/2000	CWP	P8011
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0 ± 0.57	2	pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.53 ± 0.45	0.4	pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	2.9 ± 0.88	0.5	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.37 ± 0.25	0.5	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.5 ± 0.58	0.5	pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.94 ± 0.48	0.5	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.30 ± 0.27	0.6	pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

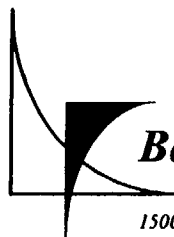
Client: Envirocare of Utah	Client Sample ID: <b>GW-83</b>				Lab Sample ID: 0010243-04B						
Work Order: 0010243	Tag Number:				Date Collected: 10/24/2000						
Project: LARW					Matrix: Aqueous						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-30 ± 19	10		pCi/L	1	11/22/2000	12/06/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.38 ± 0.77	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: Envirocare of Utah	Client Sample ID: <b>GW-83</b>				Lab Sample ID: 0010243-04C						
Work Order: 0010243	Tag Number:				Date Collected: 10/24/2000						
Project: LARW					Matrix: Aqueous						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-140 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

Client: Envirocare of Utah	Client Sample ID: <b>GW-405</b>				Lab Sample ID: 0010243-05A						
Work Order: 0010243	Tag Number:				Date Collected: 10/24/2000						
Project: LARW					Matrix: Aqueous						
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0039	0.0009		mg/L	1	11/08/2000	11/21/2000	AWT	P7922
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.4 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P882d

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded RPD - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 mple > 10 times blank result M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit





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Date: 16-Jan-01

## CLIENT SAMPLE REPORT

Gross Alpha, dissolved	12587-46-1	EPA 00-02	32 ± 14	10	L	pCi/L	1	11/08/2000	11/13/2000	AEW	P7912
Gross Beta, dissolved	12587-47-2	EPA 900.0	320 ± 490	800	L	pCi/L	1	11/08/2000	11/14/2000	AEW	P7911
Potassium-40, dissolved	13966-00-2	EPA 901.1	320 ± 110	100		pCi/L	1		11/20/2000	LLC	A11567
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.78 ± 0.44	0.5		pCi/L	1	11/06/2000	11/09/2000	CEJ	P7866
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.91 ± 0.38	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8011
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.40 ± 0.56	2		pCi/L	1	11/02/2000	11/13/2000	MTC	P7835
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.17 ± 0.32	0.4		pCi/L	1	11/17/2000	12/07/2000	EDS	P8074
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	3.5 ± 0.78	0.4		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.17 ± 0.26	0.5		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Uranium-238, dissolved	7440-61-1	EPA 908.0M	2.2 ± 0.60	0.4		pCi/L	1	11/28/2000	12/01/2000	LLC	P8203
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.1 ± 0.67	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.16 ± 0.26	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8321

Client: **Envirocare of Utah**  
Work Order: **0010243**  
Project: **LARW**

Client Sample ID: **GW-405**

Tag Number:

Lab Sample ID: **0010243-05B**  
Date Collected: **10/24/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-33 ± 22	30		pCi/L	1	11/22/2000	12/05/2000	JCP	P8170
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.3 ± 0.79	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: **Envirocare of Utah**  
Work Order: **0010243**  
Project: **LARW**

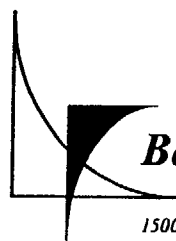
Client Sample ID: **GW-405**

Tag Number:

Lab Sample ID: **0010243-05C**  
Date Collected: **10/24/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/15/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-200 ± 220	400		pCi/L	1	11/10/2000	11/29/2000	ALZ	P7980

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
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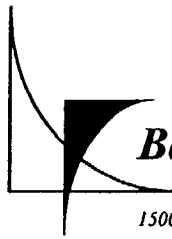
Date: 29-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-92</b>						Lab Sample ID: <b>0011002-01A</b>				
Work Order: <b>0011002</b>	<b>Tag Number:</b>						Date Collected: <b>10/26/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.012	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	3.6 ± 3.0	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	49 ± 16	10	L	pCi/L	1	11/15/2000	11/20/2000	AEW	P8023
Gross Beta, dissolved	12587-47-2	EPA 900.0	58 ± 190	300	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		11/22/2000	LLC	A11569
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.57 ± 0.39	0.5		pCi/L	1	11/07/2000	11/13/2000	CEJ	P7885
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.80 ± 0.38	0.6		pCi/L	1	11/14/2000	11/28/2000	CWP	P8012
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.4 ± 1.1	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.49 ± 0.44	0.5		pCi/L	1	11/17/2000	12/07/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	5.7 ± 0.85	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.072 ± 0.21	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	3.6 ± 0.62	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	3.2 ± 0.90	0.4		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.15 ± 0.31	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-92</b>						Lab Sample ID: <b>0011002-01B</b>				
Work Order: <b>0011002</b>	<b>Tag Number:</b>						Date Collected: <b>10/26/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-21 ± 24	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.62 ± 0.74	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded Duplicate sample(s) < 5 times limit  
 sample > 10 times blank result



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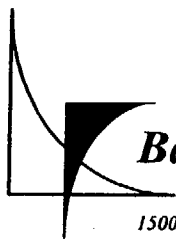
Date: 29-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-92</b>							Lab Sample ID: <b>0011002-01C</b>			
Work Order: <b>0011002</b>	<b>Tag Number:</b>							Date Collected: <b>10/26/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	82 ± 240	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: <b>Envirocare of Utah</b>	<b>Client Sample ID: GW-93</b>							Lab Sample ID: <b>0011002-02A</b>			
Work Order: <b>0011002</b>	<b>Tag Number:</b>							Date Collected: <b>10/26/2000</b>			
Project: <b>LARW</b>								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.023	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.4 ± 3.1	5		pCi/L	1	01/11/2001	01/12/2000	CMA	P8828
Gross Alpha, dissolved	12587-46-1	EPA 00-02	37 ± 15	10	L	pCi/L	1	11/15/2000	11/20/2000	AEW	P8023
Gross Beta, dissolved	12587-47-2	EPA 900.0	540 ± 110	200	L	pCi/L	1	01/02/2001	01/09/2001	CWP	P8692
Potassium-40, dissolved	13966-00-2	EPA 901.1	450 ± 120	200		pCi/L	1		11/27/2000	LLC	A11569
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.5 ± 0.51	0.4		pCi/L	1	11/07/2000	11/13/2000	CEJ	P7885
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.3 ± 0.44	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.1 ± 0.92	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.18 ± 0.35	0.5		pCi/L	1	11/17/2000	12/07/2000	BPM	P8075
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	13 ± 1.2	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.13 ± 0.28	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.3 ± 0.80	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.36 ± 0.44	0.4		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.24 ± 0.25	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 29-Jan-01

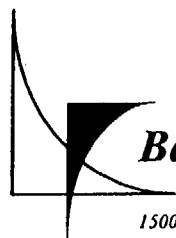
## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-93</b>				Lab Sample ID: <b>0011002-02B</b>					
Work Order: <b>0011002</b>		<b>Tag Number:</b>				Date Collected: <b>10/26/2000</b>					
Project: <b>LARW</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-15 ± 14	20		pCi/L	1	01/16/2001	01/17/2001	JCP	P8845
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.3 ± 0.79	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-93</b>				Lab Sample ID: <b>0011002-02C</b>					
Work Order: <b>0011002</b>		<b>Tag Number:</b>				Date Collected: <b>10/26/2000</b>					
Project: <b>LARW</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-170 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Client: <b>Envirocare of Utah</b>		<b>Client Sample ID: GW-407</b>				Lab Sample ID: <b>0011002-03A</b>					
Work Order: <b>0011002</b>		<b>Tag Number:</b>				Date Collected: <b>10/26/2000</b>					
Project: <b>LARW</b>						Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.024	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8109
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	8.2 ± 5.4	9	L	pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	56 ± 16	10	L	pCi/L	1	11/15/2000	11/20/2000	AEW	P8023
Gross Beta, dissolved	12587-47-2	EPA 900.0	850 ± 540	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	410 ± 120	200		pCi/L	1		11/27/2000	LLC	A11569
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.6 ± 0.50	0.4		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.7 ± 0.45	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.99 ± 0.93	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.26 ± 0.36	0.4		pCi/L	1	11/17/2000	12/07/2000	BPM	P8075
Uranium-233/234 dissolved	13966 29 5	EPA 908 0M	13 ± 1.1	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded P - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded C - Duplicate sample(s) < 5 times limit



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Date: 29-Jan-01

## CLIENT SAMPLE REPORT

Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.18 ± 0.25	0.3	pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	6.1 ± 0.74	0.3	pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.23 ± 0.20	0.5	pCi/L	1	12/05/2000	12/13/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-1.0 ± 0.30	0.6	pCi/L	1	12/05/2000	12/13/2000	LLC	P8322

Client: **Envirocare of Utah**  
Work Order: **0011002**  
Project: **LARW**

Client Sample ID: **GW-407**

Tag Number:

Lab Sample ID: **0011002-03B**  
Date Collected: **10/26/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-18 ± 19	30		pCi/L	1	11/22/2000	12/15/2000	JCP	P8171
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.54 ± 0.79	1		pCi/L	1	11/29/2000	12/07/2000	CWP	P8195

Client: **Envirocare of Utah**  
Work Order: **0011002**  
Project: **LARW**

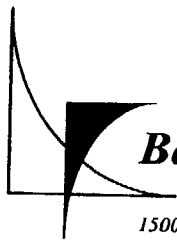
Client Sample ID: **GW-407**

Tag Number:

Lab Sample ID: **0011002-03C**  
Date Collected: **10/26/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	14	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-170 ± 230	400		pCi/L	1	11/16/2000	12/01/2000	ALZ	P8054

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 02-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011030**  
Project: **LARW**

Client Sample ID: **GW-105**

Tag Number:

Lab Sample ID: **0011030-01A**  
Date Collected: **10/31/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.022	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	32 ± 5.5	9		pCi/L	1	12/14/2000	12/28/2000	JCP	P846J
Gross Alpha, dissolved	12587-46-1	EPA 00-02	58 ± 17	10	L	pCi/L	1	11/16/2000	11/28/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	220 ± 500	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	400 ± 130	200		pCi/L	1		11/27/2000	LLC	A11573
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.5 ± 0.52	0.5		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.0 ± 0.43	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.79 ± 0.92	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P7999
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.058 ± 0.39	0.6		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.2	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.10 ± 0.29	0.5		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.2 ± 0.79	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.36 ± 0.56	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.19 ± 0.28	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Client: **Envirocare of Utah**  
Work Order: **0011030**  
Project: **LARW**

Client Sample ID: **GW-105**

Tag Number:

Lab Sample ID: **0011030-01B**  
Date Collected: **10/31/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-17 ± 17	20		pCi/L	1	11/22/2000	12/14/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.26 ± 0.76	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F Value above quantitation range S - Spike outside accepted recovery limits  
 O Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X indicate sample(s) < 5 times limit



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Date: 02-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011030**  
Project: **LARW**

Client Sample ID: **GW-105**  
Tag Number:

Lab Sample ID: **0011030-01C**  
Date Collected: **10/31/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	69 ± 210	300		pCi/L	1	11/21/2000	12/01/2000	ALZ	P8149

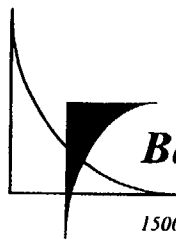
Client: **Envirocare of Utah**  
Work Order: **0011030**  
Project: **LARW**

Client Sample ID: **GW-102**  
Tag Number:

Lab Sample ID: **0011030-02A**  
Date Collected: **10/31/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0046	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	34 ± 5.5	9		pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	74 ± 19	10	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	300 ± 520	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	400 ± 140	200		pCi/L	1		11/28/2000	LLC	A11573
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.95 ± 0.52	0.6		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.7 ± 0.42	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.89 ± 0.90	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.70 ± 0.47	0.4		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	1.8 ± 0.61	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.23 ± 0.21	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	1.1 ± 0.45	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.3 ± 0.67	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.14 ± 0.28	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 02-Jan-01

## CLIENT SAMPLE REPORT

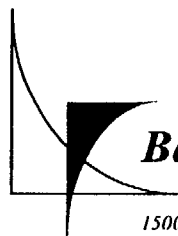
Client: Envirocare of Utah	Client Sample ID: <b>GW-102</b>							Lab Sample ID: 0011030-02B			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-7.8 ± 15	20		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.51 ± 0.83	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: Envirocare of Utah	Client Sample ID: <b>GW-102</b>							Lab Sample ID: 0011030-02C			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	8.0 ± 210	300		pCi/L	1	11/21/2000	12/01/2000	ALZ	P8149

Client: Envirocare of Utah	Client Sample ID: <b>GW-101</b>							Lab Sample ID: 0011030-03A			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0027	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	34 ± 5.6	9		pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	30 ± 14	10	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	150 ± 490	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	340 ± 120	200		pCi/L	1		11/28/2000	LLC	A11573
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.061 ± 0.29	0.5		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.2 ± 0.40	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.58 ± 0.86	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.47 ± 0.43	0.5		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	0.41 ± 0.49	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F Value above quantitation range S - Spike outside accepted recovery limits  
 K - Analyte detected in method blank L - Contract/Client reporting limit exceeded G outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 N - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit





# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 02-Jan-01

## CLIENT SAMPLE REPORT

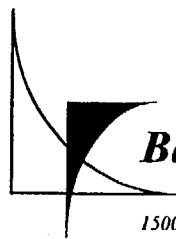
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.19 ± 0.20	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	0.52 ± 0.34	0.3		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.97 ± 0.69	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.19 ± 0.28	0.5		pCi/L	1	12/05/2000	12/12/2000	LLC	P8322

Client: Envirocare of Utah	Client Sample ID: <b>GW-101</b>							Lab Sample ID: 0011030-03B			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-14 ± 15	30		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	0.16 ± 0.82	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: Envirocare of Utah	Client Sample ID: <b>GW-101</b>							Lab Sample ID: 0011030-03C			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-28 ± 210	300		pCi/L	1	11/21/2000	12/01/2000	ALZ	P8149

Client: Envirocare of Utah	Client Sample ID: <b>GW-100</b>							Lab Sample ID: 0011030-04A			
Work Order: 0011030	Tag Number:							Date Collected: 10/31/2000			
Project: LARW								Matrix: Aqueous			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.11	0.0009		mg/L	1	11/20/2000	11/30/2000	AWT	P8111
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	38 ± 5.5	9		pCi/L	1	12/14/2000	12/28/2000	JCP	P8463
Gross Alpha, dissolved	12587-46-1	EPA 00-02	39 ± 15	10	L	pCi/L	1	11/16/2000	11/29/2000	AEW	P8046
Gross Beta, dissolved	12587-47-2	EPA 900.0	460 ± 490	800	L	pCi/L	1	11/16/2000	11/22/2000	AEW	P8045
Potassium-40, dissolved	13966-00-2	EPA 901.1	250 ± 110	200		pCi/L	1		11/28/2000	LLC	A11573
Radium-226, dissolved	13982-63-3	EPA 903.0M, SM 705M	0.40 ± 0.40	0.5		pCi/L	1	11/13/2000	11/17/2000	CEJ	P7988

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 02-Jan-01

## CLIENT SAMPLE REPORT

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.50 ± 0.38	0.6		pCi/L	1	11/15/2000	11/30/2000	CWP	P8035
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.1 ± 0.88	2		pCi/L	1	11/13/2000	11/17/2000	MTC	P8000
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.19 ± 0.33	0.4		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	77 ± 3.0	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	2.3 ± 0.62	0.5		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Uranium-238, dissolved	7440-61-1	EPA 908.0M	42 ± 2.2	0.4		pCi/L	1	12/20/2000	12/26/2000	LLC	P8535
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.27 ± 0.44	0.5		pCi/L	1	12/05/2000	12/14/2000	KEB	P8323
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.41 ± 0.26	0.5		pCi/L	1	12/05/2000	12/14/2000	KEB	P8323

Client: Envirocare of Utah  
Work Order: 0011030  
Project: LARW

Client Sample ID: GW-100

Tag Number:

Lab Sample ID: 0011030-04B  
Date Collected: 10/31/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-16 ± 15	20		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	0.38 ± 0.79	1		pCi/L	1	12/06/2000	12/15/2000	CWP	P8197

Client: Envirocare of Utah  
Work Order: 0011030  
Project: LARW

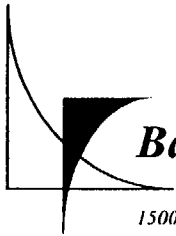
Client Sample ID: GW-100

Tag Number:

Lab Sample ID: 0011030-04C  
Date Collected: 10/31/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		11/16/2000	PKL	A11229
Tritium, dissolved	10028-17-8	EPA 906.0	-17 ± 210	400		pCi/L	1	11/21/2000	12/01/2000	ALZ	P8140

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded date sample(s) < 5 times limit



# Barringer Laboratories, Inc.

# BATCH QC SUMMARY REPORT

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Client: Envirocare of Utah	Batch ID: A11229	Sample ID: 0010202-01CDUP	Method: SW846 9056	Prepped:							
Work Order: 0011030	Sample Duplicate	Seq No: 223361	Unit: mg/L	Analyzed: 11/15/00							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	11	10						ND	200	20	X

Client: Envirocare of Utah	Batch ID: A11229	Sample ID: 0011021-02CDUP	Method: SW846 9056	Prepped:							
Work Order: 0011030	Sample Duplicate	Seq No: 223393	Unit: mg/L	Analyzed: 11/16/00							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	11	10						ND	200	20	X

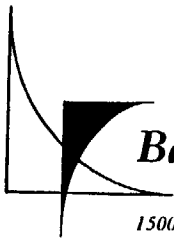
Client: Envirocare of Utah	Batch ID: A11229	Sample ID: LCS	Method: SW846 9056	Prepped:							
Work Order: 0011030	Laboratory Control Spike	Seq No: 223398	Unit: mg/L	Analyzed:							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	10	0.5	10		104	90	110				

Client: Envirocare of Utah	Batch ID: A11229	Sample ID: MBLK	Method: SW846 9056	Prepped:							
Work Order: 0011030	Method Blank	Seq No: 223397	Unit: mg/L	Analyzed:							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	ND	0.5									

Client: Envirocare of Utah	Batch ID: A11229	Sample ID: 0010202-01CMS	Method: SW846 9056	Prepped:							
Work Order: 0011030	Matrix Spike	Seq No: 223362	Unit: mg/L	Analyzed: 11/15/00							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	220	10	200	0	108	75	125				

Client: Envirocare of Utah	Batch ID: A11229	Sample ID: 0011021-02CMS	Method: SW846 9056	Prepped:							
Work Order: 0011030	Matrix Spike	Seq No: 223394	Unit: mg/L	Analyzed: 11/16/00							
Project: LARW		Run ID: IC1_001115A	Matrix: Aqueous	Analyst: PKL							
Analyte	Result ± 2 sigma	Limit	SpikeVal	SpikeRefVal	%REC	LowLimit	HighLimit	DupRefVal ± 2 sigma	RPD/RER	RPDLimit	Qual
Bromide	220	10	200	0	108	75	125				

Qualifiers: ND - Not detected at the reporting limit    R - RPD outside accepted recovery limits    Y - Unspiked sample > 4 times amount spiked  
 J - Analyte detected below quantitation limit    X - Duplicate sample(s) < 5 times limit    B - Analyte detected in the associated method blank  
 E - Value above quantitation range    S - Spike recovery outside accepted recovery limits    Z - Sample > 10 times blank result



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-29**  
Tag Number:

Lab Sample ID: **0011142-01A**  
Date Collected: **11/13/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.022	0.0009		mg/L	1	11/21/2000	12/06/2000	AWT	P8145
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.2 ± 2.8	5		pCi/L	1	01/13/2001	01/15/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	48 ± 11	8	L	pCi/L	1	12/06/2000	12/12/2000	AEW	P8335
Gross Beta, dissolved	12587-47-2	EPA 900.0	220 ± 580	1000	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	430 ± 140	200		pCi/L	1		11/30/2000	LLC	A11650
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.3 ± 0.49	0.5		pCi/L	1	11/21/2000	11/22/2000	CEJ	P8088
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.6 ± 0.46	0.6		pCi/L	1	11/27/2000	12/11/2000	CWP	P8194
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.0 ± 1.0	2		pCi/L	1	11/17/2000	11/28/2000	MTC	P8090
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.68 ± 0.52	0.6		pCi/L	1	12/01/2000	12/11/2000	JCP	P8274
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	15 ± 1.3	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.043 ± 0.24	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	7.8 ± 0.93	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.60 ± 0.27	0.5		pCi/L	1	12/26/2000	01/04/2001	LLC	P8603
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.62 ± 0.27	0.6		pCi/L	1	12/26/2000	01/04/2001	LLC	P8603

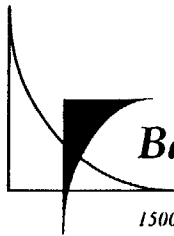
Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-29**  
Tag Number:

Lab Sample ID: **0011142-01B**  
Date Collected: **11/13/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-26 ± 29	30		pCi/L	1	11/22/2000	12/13/2000	JCP	P8172
Iodine-129, dissolved	15046-84-1	EPA 902.0	0.13 ± 0.82	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded O - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Value > 10 times blank result M - Maximum contaminant level exceeded X - Value less than 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-29**

Lab Sample ID: **0011142-01C**

Date Collected: **11/13/2000**

Tag Number:

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/08/2000	PKL	A11637
Tritium, dissolved	10028-17-8	EPA 906.0	-39 ± 250	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-77**

Lab Sample ID: **0011142-02A**

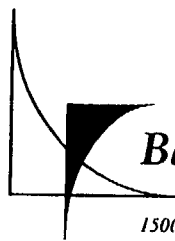
Date Collected: **11/13/2000**

Tag Number:

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.018	0.0009		mg/L	1	11/21/2000	12/06/2000	AWT	P8145
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	4.6 ± 2.7	4		pCi/L	1	01/13/2001	01/15/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	53 ± 12	9	L	pCi/L	1	12/06/2000	12/12/2000	AEW	P8335
Gross Beta, dissolved	12587-47-2	EPA 900.0	-53 ± 490	800	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	420 ± 140	200		pCi/L	1		11/30/2000	LLC	A11650
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	1.5 ± 0.52	0.5		pCi/L	1	11/21/2000	11/22/2000	CEJ	P8088
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.8 ± 0.46	0.6		pCi/L	1	11/27/2000	12/11/2000	CWP	P8194
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	2.3 ± 0.98	2		pCi/L	1	11/17/2000	11/28/2000	MTC	P8090
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.16 ± 0.29	0.4		pCi/L	1	12/01/2000	12/11/2000	JCP	P8274
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.1	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.18 ± 0.25	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.6 ± 0.73	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-1.0 ± 0.48	0.3		pCi/L	1	12/15/2000	12/29/2000	LLC	P8485
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.098 ± 0.24	0.4		pCi/L	1	12/15/2000	12/29/2000	LLC	P8485

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-77**

Tag Number:

Lab Sample ID: 0011142-02B

Date Collected: 11/13/2000

Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-6.4 ± 22	30		pCi/L	1
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.49 ± 0.78	1		pCi/L	1

Prepped	Analyzed	Analyst	Batch
11/22/2000	12/14/2000	JCP	P8172
12/14/2000	12/20/2000	CWP	P8413

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-77**

Tag Number:

Lab Sample ID: 0011142-02C

Date Collected: 11/13/2000

Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF
Bromide	24959-67-9	SW846 9056	17	10		mg/L	20
Tritium, dissolved	10028-17-8	EPA 906.0	-230 ± 240	400		pCi/L	1

Prepped	Analyzed	Analyst	Batch
12/08/2000		PKL	A11637
12/13/2000	12/19/2000	ALZ	P8444

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-64**

Tag Number:

Lab Sample ID: 0011142-03A

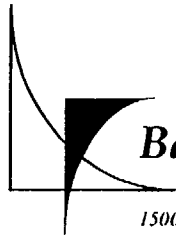
Date Collected: 11/14/2000

Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF
Uranium, dissolved	7440-61-1	ASTM D2907	0.012	0.0009		mg/L	1
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	5.0 ± 2.8	5		pCi/L	1
Gross Alpha, dissolved	12587-46-1	EPA 00-02	41 ± 10	7	L	pCi/L	1
Gross Beta, dissolved	12587-47-2	EPA 900.0	250 ± 490	800	L	pCi/L	1
Potassium-40, dissolved	13966-00-2	EPA 901.1	460 ± 140	200		pCi/L	1
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	2.0 ± 0.57	0.5		pCi/L	1
Radium-228, dissolved	15262-20-1	EPA 904.0M	2.4 ± 0.45	0.6		pCi/L	1
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	0.51 ± 0.88	2		pCi/L	1
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.17 ± 0.32	0.4		pCi/L	1
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	11 ± 1.1	0.3		pCi/L	1

Prepped	Analyzed	Analyst	Batch
11/21/2000	12/06/2000	AWT	P8145
01/13/2001	01/15/2001	CMA	P8837
12/06/2000	12/12/2000	AEW	P8335
11/29/2000	12/04/2000	AEW	P8214
	11/30/2000	LLC	A11650
11/21/2000	11/22/2000	CEJ	P8088
11/27/2000	12/11/2000	CWP	P8194
11/17/2000	11/28/2000	MTC	P8090
12/01/2000	12/11/2000	JCP	P8274
12/15/2000	12/21/2000	LLC	P8487

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 M - Maximum contaminant level exceeded M - Maximum contaminant level exceeded U - Undetectable sample(s) < 5 times limit



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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.11 ± 0.23	0.4		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.1 ± 0.73	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.27 ± 0.50	0.4		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.052 ± 0.26	0.5		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-64**

Tag Number:

Lab Sample ID: 0011142-03B  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-5.6 ± 16	20		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.54 ± 0.79	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-64**

Tag Number:

Lab Sample ID: 0011142-03C  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/08/2000	PKL	A11637
Tritium, dissolved	10028-17-8	EPA 906.0	-190 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

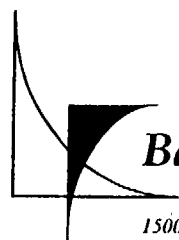
Client Sample ID: **I-2-30**

Tag Number:

Lab Sample ID: 0011142-04A  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0080	0.0009		mg/L	1	11/21/2000	12/07/2000	AWT	P8144
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	0.83 ± 2.6	4		pCi/L	1	01/13/2001	01/15/2001	CMA	P8837
Gross Alpha, dissolved	12587-46-1	EPA 00-02	28 ± 8.6	7	L	pCi/L	1	12/06/2000	12/12/2000	AEW	P8335
Gross Beta, dissolved	12587-47-2	EPA 900.0	460 ± 500	800	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Gross Beta, dissolved	12587-47-2	EPA 900.0	340 ± 140	200	L	pCi/L	1	01/19/2001	01/24/2001	AEW	P8922
Potassium-40, dissolved	13966-00-2	EPA 901.1	390 ± 130	200		pCi/L	1		11/30/2000	LLC	A11650

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.37 ± 0.30	0.4		pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.42	0.6		pCi/L	1	11/27/2000	12/11/2000	CWP	P8194
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.62 ± 0.94	2		pCi/L	1	11/17/2000	11/28/2000	MTC	P8090
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.66 ± 0.46	0.4		pCi/L	1	12/01/2000	12/11/2000	JCP	P8274
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	8.3 ± 0.95	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.10 ± 0.21	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Uranium-238, dissolved	7440-61-1	EPA 908.0M	4.1 ± 0.67	0.3		pCi/L	1	12/15/2000	12/21/2000	LLC	P8487
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.52 ± 0.66	0.4		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.16 ± 0.29	0.4		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: I-2-30

Tag Number:

Lab Sample ID: 0011142-04B  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-27 ± 28	30		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.090 ± 0.73	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: I-2-30

Tag Number:

Lab Sample ID: 0011142-04C  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/08/2000	PKL	A11637
Tritium, dissolved	10028-17-8	EPA 906.0	-240 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: GW-56R

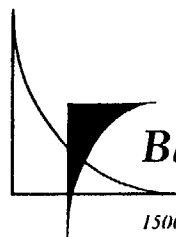
Tag Number:

Lab Sample ID: 0011142-05A  
Date Collected: 11/14/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.012	0.0009		mg/L	1	11/21/2000	12/07/2000	AWT	P8144

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 P - Analyte detected in method blank L - Contract/Client reporting limit exceeded RPD - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded duplicate sample(s) < 5 times limit





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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	13 ± 3.5	6	L	pCi/L	1	12/15/2000 01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	39 ± 11	10	L	pCi/L	1	12/06/2000 12/12/2000	AEW	P8335
Gross Beta, dissolved	12587-47-2	EPA 900.0	140 ± 480	800	L	pCi/L	1	11/29/2000 12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	320 ± 120	200		pCi/L	1	11/30/2000	LLC	A11650
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.99 ± 0.42	0.4		pCi/L	1	12/05/2000 12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.9 ± 0.44	0.6		pCi/L	1	11/27/2000 12/11/2000	CWP	P8194
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.26 ± 1.0	2		pCi/L	1	11/17/2000 11/28/2000	MTC	P8090
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.19 ± 0.42	0.6		pCi/L	1	12/01/2000 12/11/2000	JCP	P8274
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	9.5 ± 0.86	0.3		pCi/L	1	01/01/2001 01/08/2001	LLC	P8672
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.17 ± 0.23	0.3		pCi/L	1	01/01/2001 01/08/2001	LLC	P8672
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.4 ± 0.62	0.3		pCi/L	1	01/01/2001 01/08/2001	LLC	P8672
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.72 ± 0.47	0.5		pCi/L	1	12/15/2000 12/26/2000	LLC	P8485
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.33 ± 0.30	0.6		pCi/L	1	12/15/2000 12/26/2000	LLC	P8485

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-56R**

Lab Sample ID: 0011142-05B

Tag Number:

Date Collected: 11/14/2000

Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-13 ± 27	30		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.93 ± 0.76	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Client: Envirocare of Utah  
Work Order: 0011142  
Project: LARW 11e.(2)

Client Sample ID: **GW-56R**

Lab Sample ID: 0011142-05C

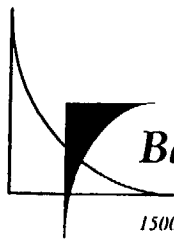
Tag Number:

Date Collected: 11/14/2000

Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846-9056	ND	10		mg/L	20		12/08/2000	PKL	A11637
Tritium, dissolved	10028-17-8	EPA 906.0	9.7 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-16R**

Tag Number:

Lab Sample ID: **0011142-06A**  
Date Collected: **11/14/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.012	0.0009		mg/L	1	11/21/2000	12/07/2000	AWT	P8144
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 ± 3.4	6	L	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	31 ± 9.6	9	L	pCi/L	1	12/06/2000	12/12/2000	AEW	P8335
Gross Beta, dissolved	12587-47-2	EPA 900.0	460 ± 500	800	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	360 ± 110	100		pCi/L	1		12/01/2000	LLC	A11650
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.28 ± 0.30	0.4		pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.4 ± 0.42	0.6		pCi/L	1	11/27/2000	12/11/2000	CWP	P8194
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.1 ± 0.91	2		pCi/L	1	11/17/2000	11/28/2000	MTC	P8090
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.063 ± 0.36	0.6		pCi/L	1	12/01/2000	12/11/2000	JCP	P8274
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	13 ± 0.98	0.3		pCi/L	1	01/01/2001	01/08/2001	LLC	P8672
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.33 ± 0.27	0.4		pCi/L	1	01/01/2001	01/08/2001	LLC	P8672
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.7 ± 0.67	0.3		pCi/L	1	01/01/2001	01/08/2001	LLC	P8672
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.52 ± 0.89	0.6		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.0091 ± 0.38	0.7		pCi/L	1	12/15/2000	12/26/2000	LLC	P8485

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

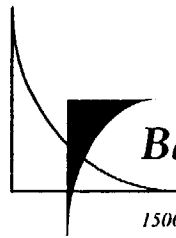
Client Sample ID: **GW-16R**

Tag Number:

Lab Sample ID: **0011142-06B**  
Date Collected: **11/14/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-9.8 ± 15	30		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.4 ± 0.76	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 sample > 10 times blank result M - Maximum contaminant level exceeded indicate sample(s) < 5 times limit



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Date: 31-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011142**  
Project: **LARW 11e.(2)**

Client Sample ID: **GW-16R**

Lab Sample ID: **0011142-06C**  
Date Collected: **11/14/2000**  
Matrix: **Aqueous**

Tag Number:

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	11	10		mg/L	20		12/08/2000	PKL	A11637
Tritium, dissolved	10028-17-8	EPA 906.0	-15 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



**Barringer Laboratories, Inc.**

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 13-Dec-00

# CLIENT SAMPLE REPORT

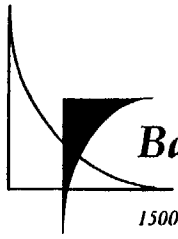
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Work Order: <b>0011143</b>	Tag Number:						Date Collected: <b>11/13/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.0023	0.0009		mg/L	1	11/21/2000	12/07/2000	AWT	P8144
Potassium-40, dissolved	13966-00-2	EPA 901.1	390 ± 120	200		pCi/L	1		11/30/2000	LLC	A11651

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-38R</b>						Lab Sample ID: <b>0011143-01B</b>				
Work Order: <b>0011143</b>	Tag Number:						Date Collected: <b>11/13/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/08/2000	PKL	A11637

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-37</b>						Lab Sample ID: <b>0011143-02A</b>				
Work Order: <b>0011143</b>	Tag Number:						Date Collected: <b>11/13/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	11-09-6	ASTM D2907	0.011	0.0009		mg/L	1	11/21/2000	12/07/2000	AWT	P8144
Potassium-40, dissolved	13966-00-2	EPA 901.1	290 ± 98	200		pCi/L	1		12/01/2000	LLC	A11651

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-37</b>						Lab Sample ID: <b>0011143-02B</b>				
Work Order: <b>0011143</b>	Tag Number:						Date Collected: <b>11/13/2000</b>				
Project: <b>11e.(2)</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	16	10		mg/L	20		12/08/2000	PKL	A11637

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 — Analyte detected in method blank L - Contract/Client reporting limit exceeded — outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 — Sample > 10 times blank result M - Maximum contaminant level exceeded — Late sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-119</b>	Lab Sample ID: <b>0012009-01A</b>									
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0009258-01A</b>	Date Collected: <b>09/26/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	28 ± 4.3	7		pCi/L	1	12/28/2000	01/08/2001	MDR	P8642

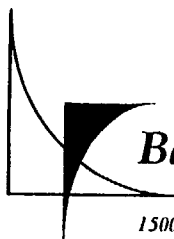
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-120</b>	Lab Sample ID: <b>0012009-02A</b>									
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0009258-02A</b>	Date Collected: <b>09/26/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	26 ± 4.3	7		pCi/L	1	12/28/2000	01/08/2001	MDR	P8642

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-121</b>	Lab Sample ID: <b>0012009-03A</b>									
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0009258-03A</b>	Date Collected: <b>09/26/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	27 ± 4.3	7		pCi/L	1	12/28/2000	01/08/2001	MDR	P8642

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-122</b>	Lab Sample ID: <b>0012009-04A</b>									
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0009258-04A</b>	Date Collected: <b>09/26/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	23 ± 3.7	6		pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-108</b>	Lab Sample ID: <b>0012009-05A</b>									
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010007-01A</b>	Date Collected: <b>09/27/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	10 ± 3.6	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-109</b>							Lab Sample ID: <b>0012009-06A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010007-02A</b>							Date Collected: <b>09/27/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 3.7	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

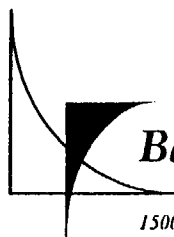
Client: Envirocare of Utah	Client Sample ID: <b>GW-110</b>							Lab Sample ID: <b>0012009-07A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010007-03A</b>							Date Collected: <b>09/27/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	4.9 ± 3.7	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-111</b>							Lab Sample ID: <b>0012009-08A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-01A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	13 ± 3.8	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-112</b>							Lab Sample ID: <b>0012009-09A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-02A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 4.0	7	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-113</b>							Lab Sample ID: <b>0012009-10A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-03A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.2 ± 3.6	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded M - Maximum contaminant level exceeded ate sample(s) < 5 times limit



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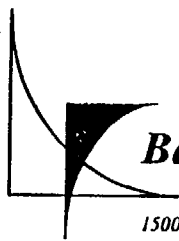
Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-114</b>							Lab Sample ID: <b>0012009-11A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-04A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 5.2	8	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423

Client: Envirocare of Utah	Client Sample ID: <b>GW-115</b>							Lab Sample ID: <b>0012009-12A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-05A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	7.4 ± 4.6	8	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 22-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**  
Work Order: **0011158**  
Project: **LARW**

Client Sample ID: **P3-95SWC**  
Tag Number:

Lab Sample ID: **0011158-01A**  
Date Collected: **11/15/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.47	0.0009		mg/L	1	11/30/2000	12/07/2000	AWT	P8248
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	120 ± 4.4		6	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	280 ± 36		10	pCi/L	1	11/29/2000	11/30/2000	AEW	P8215
Gross Beta, dissolved	12587-47-2	EPA 900.0	180 ± 940		2000	L pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	830 ± 160		200	pCi/L	1		11/28/2000	LLC	A11652
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.46 ± 0.33		0.4	pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	3.1 ± 0.48		0.6	pCi/L	1	12/19/2000	12/26/2000	CWP	P8250
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	12 ± 1.2		2	pCi/L	1	11/28/2000	12/01/2000	MTC	P8211
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.24 ± 0.26		0.3	pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	74 ± 6.0		1	pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	2.9 ± 1.5		1	L pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Uranium-238, dissolved	7440-61-1	EPA 908.0M	220 ± 10		1	pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.20 ± 0.21		0.3	pCi/L	1	12/26/2000	12/29/2000	LLC	P8603
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.085 ± 0.22		0.4	pCi/L	1	12/26/2000	12/29/2000	LLC	P8603

Client: **Envirocare of Utah**  
Work Order: **0011158**  
Project: **LARW**

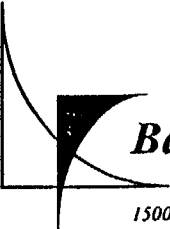
Client Sample ID: **P3-95SWC**  
Tag Number:

Lab Sample ID: **0011158-01B**  
Date Collected: **11/15/2000**  
Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-19 ± 15		20	pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.61 ± 0.75		1	pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit  
 Z - Sample > 10 times blank result L - Contract/Client reporting limit exceeded  
 M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit  
 value above quantitation range S - Spike outside accepted recovery limits  
 outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked





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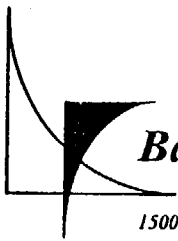
**CLIENT SAMPLE REPORT**

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Client: Envirocare of Utah	Client Sample ID: <b>P3-95SWC</b>		Lab Sample ID: <b>0011158-01C</b>								
Work Order: 0011158	Tag Number:		Date Collected: <b>11/15/2000</b>								
Project: LARW			Matrix: <b>Aqueous</b>								
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/05/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	-9.7 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: Envirocare of Utah	Client Sample ID: <b>P3-95NEC</b>		Lab Sample ID: <b>0011158-02A</b>								
Work Order: 0011158	Tag Number:		Date Collected: <b>11/15/2000</b>								
Project: LARW			Matrix: <b>Aqueous</b>								
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.0067	0.0009		mg/L	1	11/30/2000	12/07/2000	AWT	P8248
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	8.0 ± 3.4	6	L	pCi/L	1	12/15/2000	01/03/2001	MDR	P8484
Gross Alpha, dissolved	12587-46-1	EPA 00-02	39 ± 14	10	L	pCi/L	1	11/29/2000	11/30/2000	AEW	P8215
Gross Beta, dissolved	12587-47-2	EPA 900.0	200 ± 460	800	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	300 ± 110	200		pCi/L	1		11/28/2000	LLC	A11652
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.30 ± 0.30	0.4		pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.67 ± 0.40	0.6		pCi/L	1	12/19/2000	12/26/2000	CWP	P8250
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.060 ± 0.91	2		pCi/L	1	11/20/2000	11/28/2000	MTC	P8119
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.35 ± 0.37	0.4		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	4.4 ± 1.1	0.5		pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	-0.20 ± 0.30	0.6		pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Uranium-238, dissolved	7440-61-1	EPA 908.0M	2.2 ± 0.77	0.5		pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.77 ± 0.48	0.6		pCi/L	1	12/26/2000	01/03/2001	LLC	P8621
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.73 ± 0.31	0.7		pCi/L	1	12/26/2000	01/03/2001	LLC	P8621

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 22-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **P3-95NEC** Lab Sample ID: **0011158-02B**  
 Work Order: **0011158** Tag Number: Date Collected: **11/15/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-5.7 ± 16	30		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.18 ± 0.76	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

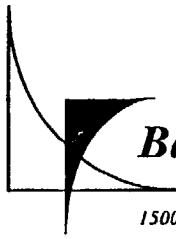
Client: **Envirocare of Utah** Client Sample ID: **P3-95NEC** Lab Sample ID: **0011158-02C**  
 Work Order: **0011158** Tag Number: Date Collected: **11/15/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/05/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	-130 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: **Envirocare of Utah** Client Sample ID: **P3-97NEC** Lab Sample ID: **0011158-03A**  
 Work Order: **0011158** Tag Number: Date Collected: **11/15/2000**  
 Project: **LARW** Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.013	0.0009		mg/L	1	11/30/2000	12/07/2000	AWT	P8248
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	19 ± 3.5	6		pCi/L	1	01/02/2001	01/18/2001	MDR	P8675
Gross Alpha, dissolved	12587-46-1	EPA 00-02	43 ± 14	10	L	pCi/L	1	11/29/2000	11/30/2000	AEW	P8215
Gross Beta, dissolved	12587-47-2	EPA 900.0	-310 ± 480	800	L	pCi/L	1	11/29/2000	12/04/2000	AEW	P8214
Potassium-40, dissolved	13966-00-2	EPA 901.1	290 ± 97	100		pCi/L	1		11/28/2000	LLC	A11652
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.44 ± 0.35	0.4		pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	1.5 ± 0.42	0.6		pCi/L	1	12/19/2000	12/26/2000	CWP	P8250
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	-0.72 ± 0.84	2		pCi/L	1	11/20/2000	11/28/2000	MTC	P8119
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	6.1 ± 1.2	0.5		pCi/L	1	11/27/2000	12/13/2000	JCP	P8183
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	12 ± 1.9	0.6		pCi/L	1	12/26/2000	01/02/2001	LLC	P8620

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 - Analyte detected in method blank L - Contract/Client reporting limit exceeded - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 22-Jan-01

## CLIENT SAMPLE REPORT

Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	0.31 ± 0.55	0.7	L	pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Uranium-238, dissolved	7440-61-1	EPA 908.0M	5.6 ± 1.3	0.6		pCi/L	1	12/26/2000	01/02/2001	LLC	P8620
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.42 ± 0.45	0.5		pCi/L	1	12/26/2000	01/03/2001	LLC	P8621
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.56 ± 0.29	0.6		pCi/L	1	12/26/2000	01/03/2001	LLC	P8621

Client: Envirocare of Utah  
Work Order: 0011158  
Project: LARW

Client Sample ID: P3-97NEC  
Tag Number:

Lab Sample ID: 0011158-03B  
Date Collected: 11/15/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-26 ± 25	30		pCi/L	1	11/22/2000	12/12/2000	JCP	P8173
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.75 ± 0.78	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8413

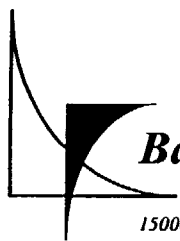
Client: Envirocare of Utah  
Work Order: 0011158  
Project: LARW

Client Sample ID: P3-97NEC  
Tag Number:

Lab Sample ID: 0011158-03C  
Date Collected: 11/15/2000  
Matrix: Aqueous

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	19	10		mg/L	20		12/05/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	-290 ± 230	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 22-Jan-01

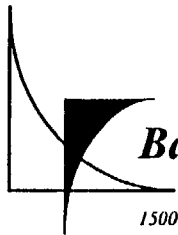
## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>P3-97A</b>						Lab Sample ID: 0011180-01A				
Work Order: 0011180	Tag Number:						Date Collected: 11/15/2000				
Project: LARW							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Gross Alpha, dissolved	12587-46-1	EPA 00-02	1000 ± 63	20		pCi/L	1	12/26/2000	12/27/2000	AEW	P8606
Gross Beta, dissolved	12587-47-2	EPA 900.0	1900 ± 1000	2000	L	pCi/L	1	12/05/2000	12/08/2000	AEW	P8311

Client: Envirocare of Utah	Client Sample ID: <b>CL-4</b>						Lab Sample ID: 0011180-02A				
Work Order: 0011180	Tag Number:						Date Collected: 11/16/2000				
Project: LARW							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.92	0.0009		mg/L	1	11/30/2000	12/07/2000	AWT	P8248
Gross Alpha, dissolved	12587-46-1	EPA 00-02	450 ± 43	20		pCi/L	1	12/26/2000	12/27/2000	AEW	P8606
Gross Beta, dissolved	12587-47-2	EPA 900.0	340 ± 470	700	L	pCi/L	1	12/05/2000	12/08/2000	AEW	P8311
Potassium-40, dissolved	13966-00-2	EPA 901.1	ND	200		pCi/L	1		12/01/2000	LLC	A12158
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.10 ± 0.33	0.5		pCi/L	1	12/05/2000	12/14/2000	CWP	P8310
Radium-228, dissolved	15262-20-1	EPA 904.0M	0.69 ± 0.40	0.6		pCi/L	1	12/19/2000	12/26/2000	CWP	P8250
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	1.6 ± 1.0	2		pCi/L	1	11/28/2000	12/01/2000	MTC	P8211
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.22 ± 0.42	0.6		pCi/L	1	12/01/2000	12/11/2000	JCP	P8274

Client: Envirocare of Utah	Client Sample ID: <b>CL-4</b>						Lab Sample ID: 0011180-02B				
Work Order: 0011180	Tag Number:						Date Collected: 11/16/2000				
Project: LARW							Matrix: Aqueous				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-15 ± 27	30		pCi/L	1	12/08/2000	12/22/2000	JCP	P8391
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.86 ± 0.76	1		pCi/L	1	12/14/2000	12/20/2000	CWP	P8414

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 sample > 10 times blank result M - Maximum contaminant level exceeded indicate sample(s) < 5 times limit



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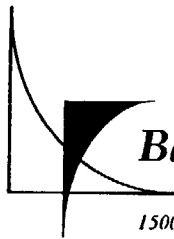
Date: 22-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>CL-4</b>						Lab Sample ID: <b>0011180-02C</b>				
Work Order: <b>0011180</b>	Tag Number:						Date Collected: <b>11/16/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	ND	10		mg/L	20		12/05/2000	PKL	A11575
Tritium, dissolved	10028-17-8	EPA 906.0	-85 ± 240	400		pCi/L	1	12/13/2000	12/19/2000	ALZ	P8444

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>CL-4</b>						Lab Sample ID: <b>0011180-02D</b>				
Work Order: <b>0011180</b>	Tag Number:						Date Collected: <b>12/14/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	49 ± 3.8	6		pCi/L	1	01/02/2001	01/18/2001	MDR	P8675
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	84 ± 5.3	1		pCi/L	1	01/11/2001	01/17/2001	LLC	P8800
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	7.7 ± 1.9	2	L	pCi/L	1	01/11/2001	01/17/2001	LLC	P8800
Uranium-238, dissolved	7440-61-1	EPA 908.0M	430 ± 12	1		pCi/L	1	01/11/2001	01/17/2001	LLC	P8800
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.015 ± 0.58	0.4		pCi/L	1	01/01/2001	01/08/2001	LLC	P8670
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.058 ± 0.28	0.5		pCi/L	1	01/01/2001	01/08/2001	LLC	P8670

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **GW-119** Lab Sample ID: **0012009-01A**  
 Work Order: **0012009** Tag Number: **RELOG 0009258-01A** Date Collected: **09/26/2000**  
 Project: Matrix: **Aqueous**  
 Analyte CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved 14133-76-7 BLI RC-Tc99 28  $\pm$  4.3 7 pCi/L 1 12/28/2000 01/08/2001 MDR P8642

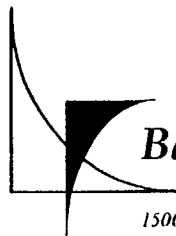
Client: **Envirocare of Utah** Client Sample ID: **GW-120** Lab Sample ID: **0012009-02A**  
 Work Order: **0012009** Tag Number: **RELOG 0009258-02A** Date Collected: **09/26/2000**  
 Project: Matrix: **Aqueous**  
 Analyte CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved 14133-76-7 BLI RC-Tc99 26  $\pm$  4.3 7 pCi/L 1 12/28/2000 01/08/2001 MDR P8642

Client: **Envirocare of Utah** Client Sample ID: **GW-121** Lab Sample ID: **0012009-03A**  
 Work Order: **0012009** Tag Number: **RELOG 0009258-03A** Date Collected: **09/26/2000**  
 Project: Matrix: **Aqueous**  
 Analyte CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved 14133-76-7 BLI RC-Tc99 27  $\pm$  4.3 7 pCi/L 1 12/28/2000 01/08/2001 MDR P8642

Client: **Envirocare of Utah** Client Sample ID: **GW-122** Lab Sample ID: **0012009-04A**  
 Work Order: **0012009** Tag Number: **RELOG 0009258-04A** Date Collected: **09/26/2000**  
 Project: Matrix: **Aqueous**  
 Analyte CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved 14133-76-7 BLI RC-Tc99 23  $\pm$  3.7 6 pCi/L 1 12/12/2000 12/27/2000 JCP P8422

Client: **Envirocare of Utah** Client Sample ID: **GW-108** Lab Sample ID: **0012009-05A**  
 Work Order: **0012009** Tag Number: **RELOG 0010007-01A** Date Collected: **09/27/2000**  
 Project: Matrix: **Aqueous**  
 Analyte CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved 14133-76-7 BLI RC-Tc99 10  $\pm$  3.6 6 L pCi/L 1 12/12/2000 12/27/2000 JCP P8422

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 R - Analyte detected in method blank L - Contract/Client reporting limit exceeded PD - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 sample > 10 times blank result M - Maximum contaminant level exceeded indicate sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: Envirocare of Utah	Client Sample ID: <b>GW-109</b>							Lab Sample ID: <b>0012009-06A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010007-02A</b>							Date Collected: <b>09/27/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 3.7	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

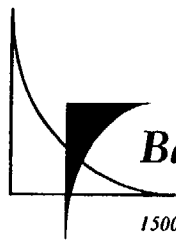
Client: Envirocare of Utah	Client Sample ID: <b>GW-110</b>							Lab Sample ID: <b>0012009-07A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010007-03A</b>							Date Collected: <b>09/27/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	4.9 ± 3.7	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-111</b>							Lab Sample ID: <b>0012009-08A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-01A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	13 ± 3.8	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-112</b>							Lab Sample ID: <b>0012009-09A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-02A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 4.0	7	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Client: Envirocare of Utah	Client Sample ID: <b>GW-113</b>							Lab Sample ID: <b>0012009-10A</b>			
Work Order: <b>0012009</b>	Tag Number: <b>RELOG 0010032-03A</b>							Date Collected: <b>09/28/2000</b>			
Project:								Matrix: <b>Aqueous</b>			
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	6.2 ± 3.6	6	L	pCi/L	1	12/12/2000	12/27/2000	JCP	P8422

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**

Work Order: **0012009**

Project:

Client Sample ID: **GW-114**

Tag Number: **RELOG 0010032-04A**

Lab Sample ID: **0012009-11A**

Date Collected: **09/28/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 5.2	8	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423

Client: **Envirocare of Utah**

Work Order: **0012009**

Project:

Client Sample ID: **GW-115**

Tag Number: **RELOG 0010032-05A**

Lab Sample ID: **0012009-12A**

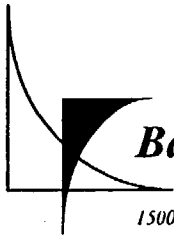
Date Collected: **09/28/2000**

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	7.4 ± 4.6	8	L	pCi/L	1	12/12/2000	12/21/2000	MDR	P8423

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 Analyte detected in method blank L - Contract/Client reporting limit exceeded D - outside accepted recovery limits Y - Unspiked sample > 4 times amount spike  
 ample > 10 times blank result M - Maximum contaminant level exceeded A - duplicate sample(s) < 5 times limit





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Date: 19-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0012013-01A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010086-02A</b>	Date Collected: <b>10/05/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	18 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

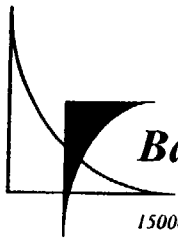
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-707</b>	Lab Sample ID: <b>0012013-02A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010086-03A</b>	Date Collected: <b>10/15/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>I-1-30</b>	Lab Sample ID: <b>0012013-03A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-01A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	16 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-71</b>	Lab Sample ID: <b>0012013-04A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-02A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-659</b>	Lab Sample ID: <b>0012013-05A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-03A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

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Date: 19-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-79</b>	Lab Sample ID: <b>0012013-06A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-04A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	0.26 ± 3.9	7	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

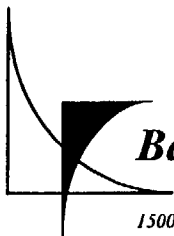
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-666</b>	Lab Sample ID: <b>0012013-07A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-05A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	9.0 ± 3.9	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-80</b>	Lab Sample ID: <b>0012013-08A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-06A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	19 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-88</b>	Lab Sample ID: <b>0012013-09A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-01A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	19 ± 3.9	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>	Lab Sample ID: <b>0012013-10A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-02A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	26 ± 3.9	6		pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 O - Analyte detected in method blank L - Contract/Client reporting limit exceeded outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 19-Dec-00

## CLIENT SAMPLE REPORT

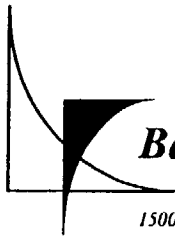
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0012013-11A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-03A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	21 ± 3.9	6		pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-91</b>	Lab Sample ID: <b>0012013-12A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-04A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	17 ± 3.9	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-116</b>	Lab Sample ID: <b>0012013-13A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010030-01A</b>	Date Collected: <b>10/02/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-117</b>	Lab Sample ID: <b>0012013-14A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010030-02A</b>	Date Collected: <b>10/02/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



# Barringer Laboratories, Inc.

15000 W 6th Avenue Suite 300 Golden, Colorado 80401-5047 (800) 654-0506 (303) 277-1687 Fax (303) 277-1689

Date: 19-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-63</b>	Lab Sample ID: <b>0012013-01A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010086-02A</b>	Date Collected: <b>10/05/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	18 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

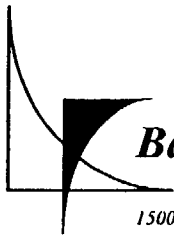
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-707</b>	Lab Sample ID: <b>0012013-02A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010086-03A</b>	Date Collected: <b>10/15/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>I-1-30</b>	Lab Sample ID: <b>0012013-03A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-01A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	16 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-71</b>	Lab Sample ID: <b>0012013-04A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-02A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-659</b>	Lab Sample ID: <b>0012013-05A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-03A</b>	Date Collected: <b>10/09/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Qualifiers: D - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 1 - Analyte detected in method blank L - Contract/Client reporting limit exceeded I - Spike outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 2 - Sample > 10 times blank result M - Maximum contaminant level exceeded X - L - Sample(s) < 5 times limit



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Date: 19-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-79</b>						Lab Sample ID: <b>0012013-06A</b>				
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-04A</b>						Date Collected: <b>10/09/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	0.26 ± 3.9	7	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

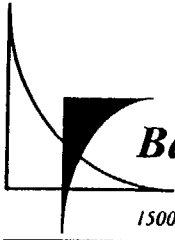
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-666</b>						Lab Sample ID: <b>0012013-07A</b>				
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-05A</b>						Date Collected: <b>10/09/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	9.0 ± 3.9	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-80</b>						Lab Sample ID: <b>0012013-08A</b>				
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010087-06A</b>						Date Collected: <b>10/09/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	19 ± 4.0	6	L	pCi/L	1	12/05/2000	12/08/2000	CMA	P8303

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-88</b>						Lab Sample ID: <b>0012013-09A</b>				
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-01A</b>						Date Collected: <b>10/03/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	19 ± 3.9	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-89</b>						Lab Sample ID: <b>0012013-10A</b>				
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-02A</b>						Date Collected: <b>10/03/2000</b>				
Project:							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	26 ± 3.9	6		pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 19-Dec-00

## CLIENT SAMPLE REPORT

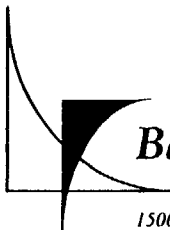
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-90</b>	Lab Sample ID: <b>0012013-11A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-03A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	21 ± 3.9	6		pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-91</b>	Lab Sample ID: <b>0012013-12A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010029-04A</b>	Date Collected: <b>10/03/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	17 ± 3.9	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-116</b>	Lab Sample ID: <b>0012013-13A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010030-01A</b>	Date Collected: <b>10/02/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-117</b>	Lab Sample ID: <b>0012013-14A</b>									
Work Order: <b>0012013</b>	Tag Number: <b>RELOG 0010030-02A</b>	Date Collected: <b>10/02/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 3.8	6	L	pCi/L	1	12/05/2000	12/12/2000	MDR	P8302

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded I - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-66</b>	Lab Sample ID: <b>0012014-01A</b>									
Work Order: <b>0012014</b>	Tag Number: <b>RELOG 0010134-01A</b>	Date Collected: <b>10/11/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	13 $\pm$ 3.2	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

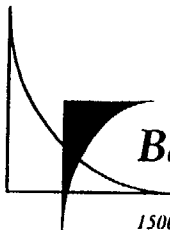
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-41</b>	Lab Sample ID: <b>0012014-02A</b>									
Work Order: <b>0012014</b>	Tag Number: <b>RELOG 0010134-02A</b>	Date Collected: <b>10/11/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 $\pm$ 3.3	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-42</b>	Lab Sample ID: <b>0012014-03A</b>									
Work Order: <b>0012014</b>	Tag Number: <b>RELOG 0010147-01A</b>	Date Collected: <b>10/10/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 $\pm$ 3.2	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-67</b>	Lab Sample ID: <b>0012014-04A</b>									
Work Order: <b>0012014</b>	Tag Number: <b>RELOG 0010147-02A</b>	Date Collected: <b>10/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	17 $\pm$ 3.3	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-67R</b>	Lab Sample ID: <b>0012014-05A</b>									
Work Order: <b>0012014</b>	Tag Number: <b>RELOG 0010147-03A</b>	Date Collected: <b>10/12/2000</b>									
Project:		Matrix: <b>Aqueous</b>									
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 $\pm$ 3.3	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 11-Jan-01

## CLIENT SAMPLE REPORT

Client: **Envirocare of Utah** Client Sample ID: **GW-68** Lab Sample ID: **0012014-06A**  
 Work Order: **0012014** Tag Number: **RELOG 0010168-01A** Date Collected: **10/16/2000**  
 Project: Matrix: **Aqueous**  
 Analyte: Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF 12/05/2000 12/13/2000 MDR P8304

Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 $\pm$ 3.2	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Client: **Envirocare of Utah** Client Sample ID: **GW-68R** Lab Sample ID: **0012014-07A**  
 Work Order: **0012014** Tag Number: **RELOG 0010168-02A** Date Collected: **10/16/2000**  
 Project: Matrix: **Aqueous**  
 Analyte: Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF 12/05/2000 12/13/2000 MDR P8304

Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	11 $\pm$ 3.2	5		pCi/L	1	12/05/2000	12/13/2000	MDR	P8304

Client: **Envirocare of Utah** Client Sample ID: **GW-69** Lab Sample ID: **0012014-08A**  
 Work Order: **0012014** Tag Number: **RELOG 0010168-03A** Date Collected: **10/16/2000**  
 Project: Matrix: **Aqueous**  
 Analyte: Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF 12/21/2000 01/05/2001 MDR P8564

Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	15 $\pm$ 4.2	7	L	pCi/L	1	12/21/2000	01/05/2001	MDR	P8564

Client: **Envirocare of Utah** Client Sample ID: **GW-69R** Lab Sample ID: **0012014-09A**  
 Work Order: **0012014** Tag Number: **RELOG 0010168-04A** Date Collected: **10/16/2000**  
 Project: Matrix: **Aqueous**  
 Analyte: Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF 12/21/2000 01/05/2001 MDR P8564

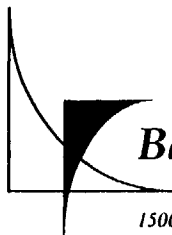
Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	17 $\pm$ 4.2	7	L	pCi/L	1	12/21/2000	01/05/2001	MDR	P8564

Client: **Envirocare of Utah** Client Sample ID: **GW-70** Lab Sample ID: **0012014-10A**  
 Work Order: **0012014** Tag Number: **RELOG 0010168-05A** Date Collected: **10/16/2000**  
 Project: Matrix: **Aqueous**  
 Analyte: Prepped Analyzed Analyst Batch  
 Technetium-99, dissolved CAS# Method Result  $\pm$  2 sigma Limit Qual Unit DF 12/21/2000 01/05/2001 MDR P8564

Analyte	CAS#	Method	Result $\pm$ 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	12 $\pm$ 4.1	7	L	pCi/L	1	12/21/2000	01/05/2001	MDR	P8564

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 - Analyte detected in method blank L - Contract/Client reporting limit exceeded - outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Late sample(s) < 5 times limit





**Barringer Laboratories, Inc.**

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Date: 11-Jan-01

# CLIENT SAMPLE REPORT

Client: **Envirocare of Utah**

Client Sample ID: **GW-25**

Lab Sample ID: **0012014-11A**

Work Order: **0012014**

Tag Number: **RELOG 0010202-01A**

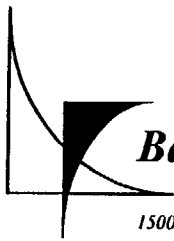
Date Collected: **10/19/2000**

Project:

Matrix: **Aqueous**

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	14 ± 4.2	7	L	pCi/L	1	12/21/2000	01/05/2001	MDR	P8564

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 18-Dec-00

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-26</b>						Lab Sample ID: <b>0012023-01A</b>					
Work Order: <b>0012023</b>	Tag Number: <b>RELOG 0008237-01A</b>						Date Collected: <b>08/07/2000</b>					
Project:							Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.033 ± 0.31	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.16 ± 0.25	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	

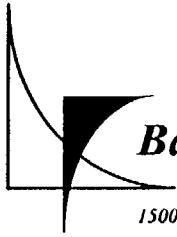
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-25</b>						Lab Sample ID: <b>0012023-02A</b>					
Work Order: <b>0012023</b>	Tag Number: <b>RELOG 0008237-02A</b>						Date Collected: <b>08/07/2000</b>					
Project:							Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	0.012 ± 0.41	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.13 ± 0.30	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-20</b>						Lab Sample ID: <b>0012023-03A</b>					
Work Order: <b>0012023</b>	Tag Number: <b>RELOG 0008237-03A</b>						Date Collected: <b>08/08/2000</b>					
Project:							Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.26 ± 0.29	0.3		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.0063 ± 0.21	0.3		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-24</b>						Lab Sample ID: <b>0012023-04A</b>					
Work Order: <b>0012023</b>	Tag Number: <b>RELOG 0008237-04A</b>						Date Collected: <b>08/08/2000</b>					
Project:							Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.39 ± 0.31	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.48 ± 0.30	0.6		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-29</b>						Lab Sample ID: <b>0012023-05A</b>					
Work Order: <b>0012023</b>	Tag Number: <b>RELOG 0008237-05A</b>						Date Collected: <b>08/08/2000</b>					
Project:							Matrix: <b>Aqueous</b>					
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch	
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.24 ± 0.28	0.4		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	0.20 ± 0.30	0.5		pCi/L	1	12/05/2000	12/12/2000	KEB	P8323	

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit F - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded O - Outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 C - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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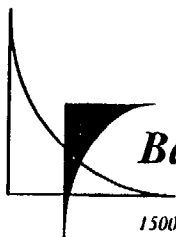
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Date: 18-Dec-00

## CLIENT SAMPLE REPORT

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**Qualifiers:** ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 09-Feb-01

## CLIENT SAMPLE REPORT

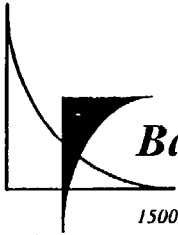
Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>P3-95SWC</b>	Lab Sample ID: <b>0012158-01A</b>
Work Order: <b>0012158</b>	Tag Number:	Date Collected: <b>12/18/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.47	0.0009		mg/L	1	12/21/2000	12/29/2000	AWT	P8576
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	89 ± 3.2	4		pCi/L	1	01/16/2001	01/23/2001	MDR	P8847
Gross Alpha, dissolved	12587-46-1	EPA 00-02	200 ± 17	8		pCi/L	1	01/16/2001	01/18/2001	AEW	P8841
Gross Beta, dissolved	12587-47-2	EPA 900.0	1200 ± 240	400		pCi/L	1	01/02/2001	01/09/2001	CWP	P8692
Potassium-40, dissolved	13966-00-2	EPA 901.1	620 ± 160	200		pCi/L	1		01/19/2001	LLC	A12467
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.42 ± 0.26	0.3		pCi/L	1	01/15/2001	01/19/2001	CWP	P8824
Radium-228, dissolved	15262-20-1	EPA 904.0M	4.7 ± 0.97	1		pCi/L	1	01/18/2001	01/24/2001	CWP	P8791
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	13 ± 1.3	2		pCi/L	1	01/08/2001	01/12/2001	MTC	P8752
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	-0.068 ± 0.20	0.4		pCi/L	1	12/29/2000	01/10/2001	EDS	P8666
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	72 ± 2.1	0.4		pCi/L	1	01/24/2001	01/26/2001	CEJ	P896C
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	4.4 ± 0.61	0.5		pCi/L	1	01/24/2001	01/26/2001	CEJ	P8963
Uranium-238, dissolved	7440-61-1	EPA 908.0M	190 ± 3.4	0.4		pCi/L	1	01/24/2001	01/26/2001	CEJ	P896J
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.17 ± 0.22	0.3		pCi/L	1	01/31/2001	02/07/2001	CEJ	P9058
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.091 ± 0.20	0.4		pCi/L	1	01/31/2001	02/07/2001	CEJ	P9058

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>P3-95SWC</b>	Lab Sample ID: <b>0012158-01B</b>
Work Order: <b>0012158</b>	Tag Number:	Date Collected: <b>12/18/2000</b>
Project: <b>LARW</b>		Matrix: <b>Aqueous</b>

Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-20 ± 14	10		pCi/L	1	12/28/2000	01/05/2001	CWP	P8646
Iodine-129, dissolved	15046-84-1	EPA 902.0	-0.47 ± 0.76	1		pCi/L	1	01/29/2001	01/31/2001	CWP	P8930

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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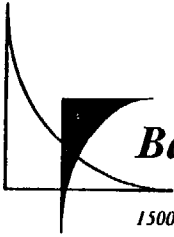
Date: 09-Feb-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>P3-95SWC</b>						Lab Sample ID: <b>0012158-01C</b>				
Work Order: <b>0012158</b>	Tag Number:						Date Collected: <b>12/18/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	36	10		mg/L	20		01/02/2001	PKL	A12063
Tritium, dissolved	10028-17-8	EPA 906.0	0 ± 240	400		pCi/L	1	12/26/2000	12/30/2000	AWT	P8614

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-701</b>						Lab Sample ID: <b>0012158-02A</b>				
Work Order: <b>0012158</b>	Tag Number:						Date Collected: <b>12/18/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Uranium, dissolved	7440-61-1	ASTM D2907	0.50	0.0009		mg/L	1	12/21/2000	12/29/2000	AWT	P8576
Technetium-99, dissolved	14133-76-7	BLI RC-Tc99	94 ± 3.3	4		pCi/L	1	01/16/2001	01/23/2001	MDR	P8847
Gross Alpha, dissolved	12587-46-1	EPA 00-02	180 ± 17	9		pCi/L	1	01/16/2001	01/18/2001	AEW	P8841
Gross Beta, dissolved	12587-47-2	EPA 900.0	880 ± 190	300	L	pCi/L	1	01/02/2001	01/10/2001	CWP	P8692
Potassium-40, dissolved	13966-00-2	EPA 901.1	670 ± 150	200		pCi/L	1		01/23/2001	LLC	A12467
Radium-226, dissolved	13982-63-3	EPA 903.0M/SM 705M	0.24 ± 0.25	0.3		pCi/L	1	01/15/2001	01/19/2001	CWP	P8824
Radium-228, dissolved	15262-20-1	EPA 904.0M	4.0 ± 0.99	1		pCi/L	1	01/10/2001	01/18/2001	CWP	P8793
Strontium-89/90, dissolved	11-10-9	EPA 905.0/SM704	12 ± 1.3	2		pCi/L	1	01/08/2001	01/12/2001	MTC	P8752
Neptunium-237, dissolved	13994-20-2	EPA 907.0M/520M	0.10 ± 0.31	0.4		pCi/L	1	12/29/2000	01/10/2001	EDS	P8666
Uranium-233/234, dissolved	13966-29-5	EPA 908.0M	78 ± 2.2	0.5		pCi/L	1	01/24/2001	01/26/2001	CEJ	P8963
Uranium-235/236, dissolved	15117-96-1	EPA 908.0M	5.7 ± 0.70	0.5		pCi/L	1	01/24/2001	01/26/2001	CEJ	P8963
Uranium-238, dissolved	7440-61-1	EPA 908.0M	210 ± 3.6	0.5		pCi/L	1	01/24/2001	01/26/2001	CEJ	P8963
Thorium-230, dissolved	14269-63-7	USAEC RMO 3008	-0.56 ± 0.16	0.2		pCi/L	1	01/19/2001	01/26/2001	CEJ	P8915
Thorium-232, dissolved	7440-29-1	USAEC RMO 3008	-0.26 ± 0.15	0.3		pCi/L	1	01/19/2001	01/26/2001	CEJ	P8915

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 B - Analyte detected in method blank L - Contract/Client reporting limit exceeded R - RPD outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit



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Date: 09-Feb-01

## CLIENT SAMPLE REPORT

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-701</b>						Lab Sample ID: <b>0012158-02B</b>				
Work Order: <b>0012158</b>	Tag Number:						Date Collected: <b>12/18/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Carbon-14, dissolved	14762-75-5	EPA 520-C01M	-13 ± 29	30		pCi/L	1	12/28/2000	01/09/2001	CWP	P8646
Iodine-129, dissolved	15046-84-1	EPA 902.0	-1.2 ± 0.76	1		pCi/L	1	01/29/2001	01/31/2001	CWP	P8930

Client: <b>Envirocare of Utah</b>	Client Sample ID: <b>GW-701</b>						Lab Sample ID: <b>0012158-02C</b>				
Work Order: <b>0012158</b>	Tag Number:						Date Collected: <b>12/18/2000</b>				
Project: <b>LARW</b>							Matrix: <b>Aqueous</b>				
Analyte	CAS#	Method	Result ± 2 sigma	Limit	Qual	Unit	DF	Prepped	Analyzed	Analyst	Batch
Bromide	24959-67-9	SW846 9056	33	10		mg/L	20		01/02/2001	PKL	A12063
Tritium, dissolved	10028-17-8	EPA 906.0	66 ± 230	400		pCi/L	1	12/26/2000	12/30/2000	AWT	P8614

Qualifiers: ND - Not detected at the reporting limit J - Analyte detected below reporting limit E - Value above quantitation range S - Spike outside accepted recovery limits  
 D - Analyte detected in method blank L - Contract/Client reporting limit exceeded F - Value outside accepted recovery limits Y - Unspiked sample > 4 times amount spiked  
 Z - Sample > 10 times blank result M - Maximum contaminant level exceeded X - Duplicate sample(s) < 5 times limit

ATTACHMENT E

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DATA VALIDATION

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**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 7/19/00

Laboratory: MSAI MW Job Number: \_\_\_\_\_

Batch Identification: 0007219 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_  
 9/20/00  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	MW Pond	0007219-1	N	J	TOC had matrix interferences.
2	P3-95 Pond	0007219-2	N	J	TOC had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					



## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: 0007219

Laboratory: MSAI Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	1	1															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. TOC had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 7/19/00

Laboratory: MSAI MW Job Number: \_\_\_\_\_

Batch Identification: 0007235 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 9/20/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-97,MS, MSD	0007235-1	N	J	TOC, Hg had matrix interferences.
2	GW-904	0007235-2	N	J	TOC, Hg had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: 0007235

Laboratory: MSAI Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	I	I															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. TOC, Hg had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/1/2000

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42179 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 9/28/00

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	L42179-1A,B	N	J	Pb, Se, Cu had matrix interferences.
2	GW-63	L42179-2A,B	N	J	Pb, Se, Cu had matrix interferences.
3	GW-776	L42179-3A,B	N	J	Pb, Se, Cu had matrix interferences.
4	GW-60	L42179-4A,B	N	J	Pb, Se, Cu had matrix interferences.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42179

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	1	1	1	1													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinse Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Cu had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 8/1/00

Laboratory AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42179 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 9/28/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	L42179-1A,B	N	J	S-Voa analysis had matrix interference.
2	GW-63	L42179-2A,B	N	J	S-Voa analysis had matrix interference.
3	GW-776	L42179-3A,B	N	J	S-Voa analysis had matrix interference.
4	GW-60	L42179-4A,B	N	J	S-Voa analysis had matrix interference.
5	Trip Blank	L42179-5A			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L42179

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A	A	A									
Holding Time	AL	AL	AL	AL	AL									
Analyte List	A	A	A	A	A									
Reporting Limits	A	A	A	A	A									
Tuning Standard (GC/MS)	AL	AL	AL	AL	AL									
Initial Calibration (all methods)	AL	AL	AL	AL	AL									
Continuing Calibration (all methods)	AL	AL	AL	AL	AL									
Injection Time(s) (all methods)	AL	AL	AL	AL	AL									
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA	NA	NA									
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA	NA	NA									
Retention Time Windows (GC methods)	NA	NA	NA	NA	NA									
Method Blank (all methods)	AL	AL	AL	AL	AL									
Surrogate Spike Recovery (organic methods)	AL	AL	AL	AL	AL									
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL									
Laboratory Control Sample Duplicate (lab specific)	N	N	N	N	N									
Matrix Spike/Matrix Spike Duplicate (all organic methods)	I	I	I	I	AL									
Trip Blanks	A	A	A	A	A									
Field Duplicate/Replicate	NA	NA	NA	NA	NA									
Equipment Rinsate Blanks	N	N	N	N	N									
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA	NA									
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A									

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. S-Voa analysis had matrix interference.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/7/2000

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42190 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*J.M. Mc*  
(Date/Signature)

9/27/00

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-58	L42190-1 C,D	N	J	Pb, Se, Cu had matrix interferences.
2	GW-28	L42190-2 C,D	N	J	Pb, Se, Cu had matrix interferences.
3	GW-57	L42190-3 C,D	N	J	Pb, Se, Cu had matrix interferences.
4	GW-27	L42190-4 C,D	N	J	Pb, Se, Cu had matrix interferences.
5	GW-58A	L42190-5 A	N	J	Pb, Se, Cu had matrix interferences.
6	GW-28A	L42190-6 A	N	J	Pb, Se, Cu had matrix interferences.
7	GW-57A	L42190-7 A	N	J	Pb, Se, Cu had matrix interferences.
8	GW-27A	L42190-8 A	N	J	Pb, Se, Cu had matrix interferences.
9					
10					
11					
12					
13					
14					
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16					
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21					
22					
23					
24					



## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42190

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A									
Holding Time	AL	AL	AL	AL	AL	AL	AL	AL									
Analyte List	A	A	A	A	A	A	A	A									
Reporting Limits	A	A	A	A	A	A	A	A									
Initial Calibration (all methods)	AL	AL	AL	AL	AL	AL	AL	AL									
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL	AL	AL	AL	AL									
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL	AL	AL	AL	AL									
Injection Time(s) (all methods)	N	N	N	N	N	N	N	N									
Interference Check Standard (ICP Method)	AL	AL	AL	AL	AL	AL	AL	AL									
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL									
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL									
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA	NA	NA	NA	NA									
Matrix Spike/Matrix Spike Duplicate	1	1	1	1	1	1	1	1									
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA									
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA									
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA	NA	NA									
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA	NA	NA	NA	NA									
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA	NA	NA	NA	NA									

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria were met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Cu had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 8/700

Laboratory AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42190 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* - 9/27/02

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-58	L42190-1A,B	N	J	S-Voa analysis had matrix interference.
2	GW-28	L42190-2A,B	N	J	S-Voa analysis had matrix interference.
3	GW-57	L42190-3A,B	N	J	S-Voa analysis had matrix interference.
4	GW-27	L42190-4A,B	N	J	S-Voa analysis had matrix interference.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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16					
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25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

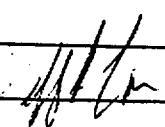
Laboratory: AWAL Batch Identification: L42190

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A	A										
Holding Time	AL	AL	AL	AL										
Analyte List	A	A	A	A										
Reporting Limits	A	A	A	A										
Tuning Standard (GC/MS)	AL	AL	AL	AL										
Initial Calibration (all methods)	AL	AL	AL	AL										
Continuing Calibration (all methods)	AL	AL	AL	AL										
Injection Time(s) (all methods)	AL	AL	AL	AL										
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA	NA										
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA	NA										
Retention Time Windows (GC methods)	NA	NA	NA	NA										
Method Blank (all methods)	AL	AL	AL	AL										
Surrogate Spike Recovery (organic methods)	AL	AL	AL	AL										
Laboratory Control Sample (all methods)	AL	AL	AL	AL										
Laboratory Control Sample Duplicate (lab specific)	N	N	N	N										
Matrix Spike/Matrix Spike Duplicate (all organic methods)	1	1	1	1										
Trip Blanks	A	A	A	A										
Field Duplicate/Replicate	NA	NA	NA	NA										
Equipment Rinsate Blanks	N	N	N	N										
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA										
Electronic Deliverable vs. Chain of Custody	A	A	A	A										

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. S-Voa analysis had matrix interference.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/7/00  
 Laboratory: AWAL MW Job Number: \_\_\_\_\_  
 Batch Identification: L42221 Matrix: Waters  
 QC Identification<sup>(\*)</sup>: \_\_\_\_\_ Page: 1 of 2  
 Validation Complete:  8/26/00  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-25A	L42221-1A	N	J	As, Pb, Se had matrix interferences.
2	GW-26A	L42221-2A	N	J	As, Pb, Se had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42221

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	I	I															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Se had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/7/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42222 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*J. Smith*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	L42222-1C,D	N	J	Pb, Se, Hg, had matrix interferences.
2	GW-25	L42222-2C,D	N	J	Pb, Se, Hg, had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42222

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	I	I															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Hg, had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 8/7/00

Laboratory AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42222 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 10/4/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	L42222-01A,B	N	J	1,4-Dichlorobenzene, 2-Chlorophenol, Pyrene had matrix interferences. Low recovery, Pest surrogates.
2	GW-25	L42222-02A,B	N	J	1,4-Dichlorobenzene, 2-Chlorophenol, Pyrene had matrix interferences. Low recovery, Pest surrogates.
3	Trip Blank	L42222-03A	N	NA	None
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5					
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L42222

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A											
Holding Time	AL	AL	AL											
Analyte List	A	A	A											
Reporting Limits	A	A	A											
Tuning Standard (GC/MS)	AL	AL	AL											
Initial Calibration (all methods)	AL	AL	AL											
Continuing Calibration (all methods)	AL	AL	AL											
Injection Time(s) (all methods)	AL	AL	AL											
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA											
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA											
Retention Time Windows (GC methods)	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL											
Surrogate Spike Recovery (organic methods)	1	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	N	N	N											
Matrix Spike/Matrix Spike Duplicate (all organic methods)	2	2	AL											
Trip Blanks	A	A	A											
Field Duplicate/Replicate	NA	NA	NA											
Equipment Rinsate Blanks	N	N	N											
Electronic Deliverable vs. Hardcopy	NA	NA	NA											
Electronic Deliverable vs. Chain of Custody	A	A	A											

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Low recovery, Pest surrogates. 2. 1,4-Dichlorobenzene, 2-Chlorophenbol, Pyrene had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/8/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42241 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*J. M. [Signature]*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-20	L42241-1A	N	J	Pb, Se, Hg had matrix interferences.
2	GW-24	L42241-2A	N	J	Pb, Se, Hg had matrix interferences.
3					
4					
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19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42241

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	1	1															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Hg had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/8/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42242 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: J. M. 9/28/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-20	L42242-1C,D	N	J	Pb, Se, Hg had matrix interferences.
2	GW-24	L42242-2C,D	N	J	Pb, Se, Hg had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
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21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42242

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	I	I	I	I													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria were met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Hg had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 8/8/00

Laboratory AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42242 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 9/29/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-20	L42242-1A,B	N	J	1,4-Dichlorobenzene, 2-Chlorophenol, and Pyrene had matrix interference.
2	GW-24	L42242-2A,B	N	J	1,4-Dichlorobenzene, 2-Chlorophenol, and Pyrene had matrix interference.
3	Trip Blank	L42242-3A	N	NA	None
4					
5					
6					
7					
8					
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25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L42242

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A											
Holding Time	AL	AL	AL											
Analyte List	A	A	A											
Reporting Limits	A	A	A											
Tuning Standard (GC/MS)	AL	AL	AL											
Initial Calibration (all methods)	AL	AL	AL											
Continuing Calibration (all methods)	AL	AL	AL											
Injection Time(s) (all methods)	AL	AL	AL											
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA											
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA											
Retention Time Windows (GC methods)	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL											
Surrogate Spike Recovery (organic methods)	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	N	N	N											
Matrix Spike/Matrix Spike Duplicate (all organic methods)	1	1	AL											
Trip Blanks	A	A	A											
Field Duplicate/Replicate	NA	NA	NA											
Equipment Rinsate Blanks	N	N	N											
Electronic Deliverable vs. Hardcopy	NA	NA	NA											
Electronic Deliverable vs. Chain of Custody	A	A	A											

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

AL indicates validation criteria met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

NOTES: 1. 1,4-Dichlorobenzene, 2-Chlorophenol, and Pyrene had matrix interference.

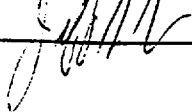
**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/10/00

Laboratory AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42270 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  9/20/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-29	L42270-01C,D	N	J	1,4-Dichlorobenzene, 2-Chlorophenbol, Pyrene had matrix interferences.
2	Trip Blank	L42270-01A	N	NA	None
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					



## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L42270

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A												
Holding Time	AL	AL												
Analyte List	A	A												
Reporting Limits	A	A												
Tuning Standard (GC/MS)	AL	AL												
Initial Calibration (all methods)	AL	AL												
Continuing Calibration (all methods)	AL	AL												
Injection Time(s) (all methods)	AL	AL												
Internal Standard EICP Area (GC/MS methods)	NA	NA												
Internal Standard Retention Time Window (GC/MS methods)	NA	NA												
Retention Time Windows (GC methods)	NA	NA												
Method Blank (all methods)	AL	AL												
Surrogate Spike Recovery (organic methods)	AL	AL												
Laboratory Control Sample (all methods)	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	N	N												
Matrix Spike/Matrix Spike Duplicate (all organic methods)	1	AL												
Trip Blanks	A	A												
Field Duplicate/Replicate	NA	NA												
Equipment Rinsate Blanks	N	N												
Electronic Deliverable vs. Hardcopy	NA	NA												
Electronic Deliverable vs. Chain of Custody	A	A												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. 1,4-Dichlorobenzene, 2-Chlorophenbol, Pyrene had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/10/2000

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42270 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *J. J. Lowe* 9/26/02  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-29	L42270-1A,B,C	N	J	Pb, Se, Hg, had matrix interferences.
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42270

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	AL																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	AL																
Initial Check Blank (ICP & AA methods)	AL																
Continuing Calibration (ICP & AA methods)	AL																
Injection Time(s) (all methods)	N																
Interference Check Standard (ICP Method)	AL																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	NA																
Matrix Spike/Matrix Spike Duplicate	I																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	NA																
Electronic Deliverable vs. Chain of Custody	NA																

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Hg, had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 8/10/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42271 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *J. B. La* 8/21/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-29	L42271-1A	N	J	Pb, Se, Hg had matrix interferences.
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various Methods    **Identification<sup>(a)</sup>:** L42271  
**Laboratory:** AWAL    **Batch Identification:** \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	AL																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	AL																
Initial Check Blank (ICP & AA methods)	AL																
Continuing Calibration (ICP & AA methods)	AL																
Injection Time(s) (all methods)	N																
Interference Check Standard (ICP Method)	AL																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	NA																
Matrix Spike/Matrix Spike Duplicate	I																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	NA																
Electronic Deliverable vs. Chain of Custody	NA																

- (a) List QC batch identification if different than Batch ID
- A indicates validation criteria were met
  - A/L indicates validation criteria were met based upon Laboratory's QC Summary Form
  - X indicates validation criteria were not met
  - N indicates data review were not a project specific requirement
  - N/A indicates criteria are not applicable for the specified analytical method
  - N/R indicates data not available for review

**NOTES:** 1. Pb, Se, Hg had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/3/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42939 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 2/2/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-88	L42939-1	N	J	Pb, Hg had matrix interferences.
2	GW-89	L42939-2	N	J	Pb, Hg had matrix interferences.
3	GW-90	L42939-3	N	J	Pb, Hg had matrix interferences.
4	GW-91	L42939-4	N	J	Pb, Hg had matrix interferences.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42939

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	1	1	1	1													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Hg had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/4/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42961 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: JMB 12/8/00

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	L42961-1 C,D	N	J	Pb, Hg had matrix interferences.
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					



## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L42961

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	AL																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	AL																
Initial Check Blank (ICP & AA methods)	AL																
Continuing Calibration (ICP & AA methods)	AL																
Injection Time(s) (all methods)	N																
Interference Check Standard (ICP Method)	AL																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	NA																
Matrix Spike/Matrix Spike Duplicate	I																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	NA																
Electronic Deliverable vs. Chain of Custody	NA																

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Hg had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 10/4/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L42961 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *JAM* 12/8/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	L42961-1A,B	N	J	none
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					



**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/5/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L42982 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_ 2/01

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-63	L42982-1 C,D	N	J	Pb, Hg had matrix interferences.
2	GW-707	L42982-2 C,D	N	J	Pb, Hg had matrix interferences.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various Methods    **Identification<sup>(a)</sup>:** L42982  
**Laboratory:** AWAL    **Batch Identification:** \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	I	I															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Hg had matrix interferences.


**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 10/5/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L42982 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  1/22/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-63	L42982-1A,B	N	NA	Matrix interference for SVOCs
2	GW-707	L42982-2A,B	N	NA	Matrix interference for SVOCs
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L42982

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A												
Holding Time	AL	AL												
Analyte List	A	A												
Reporting Limits	A	A												
Tuning Standard (GC/MS)	AL	AL												
Initial Calibration (all methods)	AL	AL												
Continuing Calibration (all methods)	AL	AL												
Injection Time(s) (all methods)	AL	AL												
Internal Standard EICP Area (GC/MS methods)	NA	NA												
Internal Standard Retention Time Window (GC/MS methods)	NA	NA												
Retention Time Windows (GC methods)	NA	NA												
Method Blank (all methods)	AL	AL												
Surrogate Spike Recovery (organic methods)	AL	AL												
Laboratory Control Sample (all methods)	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	N	N												
Matrix Spike/Matrix Spike Duplicate (all organic methods)	I	I												
Trip Blanks	A	A												
Field Duplicate/Replicate	NA	NA												
Equipment Rinsate Blanks	N	N												
Electronic Deliverable vs. Hardcopy	NA	NA												
Electronic Deliverable vs. Chain of Custody	A	A												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form.  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Matrix interference for SVOCs.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 10/18/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L43169 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 1/9/01

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-60	L43169-1A,B	N	J	Matrix interference for SVOCs
2	GW-58	L43169-2A,B	N	J	Matrix interference for SVOCs
3	GW-302	L43169-2A,B	N	J	Matrix interference for SVOCs
4	GW-28	L43169-2A,B	N	J	Matrix interference for SVOCs
5	GW-57	L43169-2A,B	N	J	Matrix interference for SVOCs
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					



## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L43169

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A	A	A									
Holding Time	AL	AL	AL	AL	AL									
Analyte List	A	A	A	A	A									
Reporting Limits	A	A	A	A	A									
Tuning Standard (GC/MS)	AL	AL	AL	AL	AL									
Initial Calibration (all methods)	AL	AL	AL	AL	AL									
Continuing Calibration (all methods)	AL	AL	AL	AL	AL									
Injection Time(s) (all methods)	AL	AL	AL	AL	AL									
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA	NA	NA									
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA	NA	NA									
Retention Time Windows (GC methods)	NA	NA	NA	NA	NA									
Method Blank (all methods)	AL	AL	AL	AL	AL									
Surrogate Spike Recovery (organic methods)	AL	AL	AL	AL	AL									
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL									
Laboratory Control Sample Duplicate (lab specific)	N	N	N	N	N									
Matrix Spike/Matrix Spike Duplicate (all organic methods)	I	I	I	I	I									
Trip Blanks	A	A	A	A	A									
Field Duplicate/Replicate	NA	NA	NA	NA	NA									
Equipment Rinsate Blanks	N	N	N	N	N									
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA	NA									
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A									

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

NOTES: 1. Matrix interference for SVOCs.

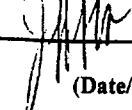
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/18/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43169 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  11/6/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-60	L43169-1 C,D	N	J	As, Se, Hg had matrix interferences.
2	GW-58	L43169-2 C,D	N	J	As, Se, Hg had matrix interferences.
3	GW-302	L43169-3 C,D	N	J	As, Se, Hg had matrix interferences.
4	GW-28	L43169-4 C,D	N	J	As, Se, Hg had matrix interferences.
5	GW-57	L43169-5 C,D	N	J	As, Se, Hg had matrix interferences.
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43169

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	AL	AL	AL	AL	AL												
Analyte List	A	A	A	A	A												
Reporting Limits	A	A	A	A	A												
Initial Calibration (all methods)	AL	AL	AL	AL	AL												
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL	AL												
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL	AL												
Injection Time(s) (all methods)	N	N	N	N	N												
Interference Check Standard (ICP Method)	AL	AL	AL	AL	AL												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA	NA												
Matrix Spike/Matrix Spike Duplicate	I	I	I	I	I												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinsate Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA	NA												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Se, Hg had matrix interferences.

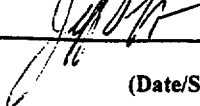
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/19/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43201 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  11/8/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-36	L43201-1 C,D	N	J	As, Se, Hg, F had matrix interferences.
2	GW-27	L43201-2 C,D	N	J	As, Se, Hg, F had matrix interferences.
3	GW-25	L43201-3 C,D	N	J	As, Se, Hg, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43201

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	AL	AL	AL														
Analyte List	A	A	A														
Reporting Limits	A	A	A														
Initial Calibration (all methods)	AL	AL	AL														
Initial Check Blank (ICP & AA methods)	AL	AL	AL														
Continuing Calibration (ICP & AA methods)	AL	AL	AL														
Injection Time(s) (all methods)	N	N	N														
Interference Check Standard (ICP Method)	AL	AL	AL														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA														
Matrix Spike/Matrix Spike Duplicate	1	1	1														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinse Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	NA	NA	NA														
Electronic Deliverable vs. Chain of Custody	NA	NA	NA														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Se, Hg, F had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 10/19/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L43201 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *J. J. [Signature]* 1/8/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-36	L43201-1A,B	N	J	Matrix interference for SVOCs
2	GW-27	L43201-2A,B	N	J	Matrix interference for SVOCs
3	GW-25	L43201-2A,B	N	J	Matrix interference for SVOCs
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**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 10/23/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L43239 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 1/9/00

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	L43239-1A,B	N	NA	None
2	GW-20	L43239-2A,B	N	NA	None
3	GW-24	L43239-2A,B	N	NA	None
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L43239

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A											
Holding Time	AL	AL	AL											
Analyte List	A	A	A											
Reporting Limits	A	A	A											
Tuning Standard (GC/MS)	AL	AL	AL											
Initial Calibration (all methods)	AL	AL	AL											
Continuing Calibration (all methods)	AL	AL	AL											
Injection Time(s) (all methods)	AL	AL	AL											
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA											
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA											
Retention Time Windows (GC methods)	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL											
Surrogate Spike Recovery (organic methods)	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	N	N	N											
Matrix Spike/Matrix Spike Duplicate (all organic methods)	AL	AL	AL											
Trip Blanks	A	A	A											
Field Duplicate/Replicate	NA	NA	NA											
Equipment Rinse Blanks	N	N	N											
Electronic Deliverable vs. Hardcopy	NA	NA	NA											
Electronic Deliverable vs. Chain of Custody	A	A	A											

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/23/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43239 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 1/29/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	L43239-1 C,D	N	J	As, Pb, Se, Hg, had matrix interferences.
2	GW-20	L43239-2 C,D	N	J	As, Pb, Se, Hg, had matrix interferences.
3	GW-24	L43239-3 C,D	N	J	As, Pb, Se, Hg, had matrix interferences.
4	GW-23	L43239-4 C,D	N	J	As, Pb, Se, Hg, had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43239

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	1	1	1	1													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Se, Hg, had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

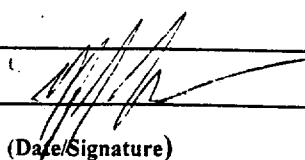
Analytical Method/Analytes: Various Sample Collection Date(s): 10/24/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43270 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_ 2/2/01

  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-22	L43270-1	N	J	As, Pb, Se had matrix interferences.
2	GW-81	L43270-2	N	J	As, Pb, Se had matrix interferences.
3	GW-82	L43270-3	N	J	As, Pb, Se had matrix interferences.
4	GW-83	L43270-4	N	J	As, Pb, Se had matrix interferences.
5	GW-405	L43270-5	N	J	As, Pb, Se had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43270

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	AL	AL	AL	AL	AL												
Analyte List	A	A	A	A	A												
Reporting Limits	A	A	A	A	A												
Initial Calibration (all methods)	AL	AL	AL	AL	AL												
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL	AL												
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL	AL												
Injection Time(s) (all methods)	N	N	N	N	N												
Interference Check Standard (ICP Method)	AL	AL	AL	AL	AL												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA	NA												
Matrix Spike/Matrix Spike Duplicate	I	I	I	I	I												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinsate Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA	NA												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Se had matrix interferences.

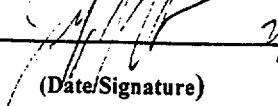
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/25/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43284 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_  
 2/2/01  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-84	L43284-1	N	J	As, Pb, Se, Hg had matrix interferences.
2	GW-85	L43284-2	N	J	As, Pb, Se, Hg had matrix interferences.
3	GW-86	L43284-3	N	J	As, Pb, Se, Hg had matrix interferences.
4	GW-406	L43284-4	N	J	As, Pb, Se, Hg had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43284

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	I	I	I	I													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Se, Hg had matrix interferences.

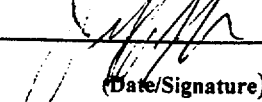
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/26/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43300 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  2/2/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-92	L43300-1	N	J	As, Pb, Se, F had matrix interferences.
2	GW-93	L43300-2	N	J	As, Pb, Se, F had matrix interferences.
3	GW-406	L43300-3	N	J	As, Pb, Se, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43300

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	AL	AL	AL														
Analyte List	A	A	A														
Reporting Limits	A	A	A														
Initial Calibration (all methods)	AL	AL	AL														
Initial Check Blank (ICP & AA methods)	AL	AL	AL														
Continuing Calibration (ICP & AA methods)	AL	AL	AL														
Injection Time(s) (all methods)	N	N	N														
Interference Check Standard (ICP Method)	AL	AL	AL														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA														
Matrix Spike/Matrix Spike Duplicate	1	1	1														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	NA	NA	NA														
Electronic Deliverable vs. Chain of Custody	NA	NA	NA														

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria were met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

**NOTES:** 1. As, Pb, Se, F had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/30/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43336 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
*11/9/01*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-103	L43336-1 A,B	N	J	Pb, F had matrix interferences.
2	GW-104	L43336-2 A,B	N	J	Pb, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43336

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	AL	AL															
Analyte List	A	A															
Reporting Limits	A	A															
Initial Calibration (all methods)	AL	AL															
Initial Check Blank (ICP & AA methods)	AL	AL															
Continuing Calibration (ICP & AA methods)	AL	AL															
Injection Time(s) (all methods)	N	N															
Interference Check Standard (ICP Method)	AL	AL															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	NA	NA															
Matrix Spike/Matrix Spike Duplicate	I	I															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	NA	NA															
Electronic Deliverable vs. Chain of Custody	NA	NA															

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, F had matrix interferences.

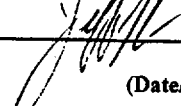
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 10/31/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43356 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  1/10/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-105	L43356-1 A,B	N	J	Pb, Hg, F had matrix interferences.
2	GW-102	L43356-2 A,B	N	J	Pb, Hg, F had matrix interferences.
3	GW-101	L43356-3 A,B	N	J	Pb, Hg, F had matrix interferences.
4	GW-100	L43356-4 A,B	N	J	Pb, Hg, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43356

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	I	I	I	I													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinse Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Hg, F had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 11/2/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43395 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: [Signature] 1/16/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-99	L43395-1 A,B	N	J	Pb, Hg, F had matrix interferences.
2	GW-94	L43395-2 A,B	N	J	Pb, Hg, F had matrix interferences.
3	GW-95	L43395-3 A,B	N	J	Pb, Hg, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43395

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	AL	AL	AL														
Analyte List	A	A	A														
Reporting Limits	A	A	A														
Initial Calibration (all methods)	AL	AL	AL														
Initial Check Blank (ICP & AA methods)	AL	AL	AL														
Continuing Calibration (ICP & AA methods)	AL	AL	AL														
Injection Time(s) (all methods)	N	N	N														
Interference Check Standard (ICP Method)	AL	AL	AL														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA														
Matrix Spike/Matrix Spike Duplicate	1	1	1														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	NA	NA	NA														
Electronic Deliverable vs. Chain of Custody	NA	NA	NA														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Pb, Hg, F had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 11/13/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43574 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *JAL* 1/10/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-38R	L43574-1 C,D	N	J	As, Pb, Hg, Se, F had matrix interferences.
2	GW-37	L43574-2 C,D	N	J	As, Pb, Hg, Se, F had matrix interferences.
3	GW-29	L43574-3 C,D	N	J	As, Pb, Hg, Se, F had matrix interferences.
4	GW-77	L43574-4 A,B	N	J	As, Pb, Hg, Se, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43574

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	I	I	I	I													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Hg, Se, F had matrix interferences.

**FIGURE B.12-1  
ORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date( s): 11/13/00

Laboratory AWAL MW Job Number: NA

Batch Identification: L43574 Matrix: Water

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 1/10/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-38R	L43574-1A,B	N	J	Matrix interference for SVOCs
2	GW-37	L43574-2A,B	N	J	Matrix interference for SVOCs
3	GW-29	L43574-2A,B	N	J	Matrix interference for SVOCs
4					
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6					
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: \_\_\_\_\_

Laboratory: AWAL Batch Identification: L43574

Validation Criteria	Sample Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hardcopy vs. Chain-of-Custody	A	A	A											
Holding Time	AL	AL	AL											
Analyte List	A	A	A											
Reporting Limits	A	A	A											
Tuning Standard (GC/MS)	AL	AL	AL											
Initial Calibration (all methods)	AL	AL	AL											
Continuing Calibration (all methods)	AL	AL	AL											
Injection Time(s) (all methods)	AL	AL	AL											
Internal Standard EICP Area (GC/MS methods)	NA	NA	NA											
Internal Standard Retention Time Window (GC/MS methods)	NA	NA	NA											
Retention Time Windows (GC methods)	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL											
Surrogate Spike Recovery (organic methods)	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	N	N	N											
Matrix Spike/Matrix Spike Duplicate (all organic methods)	I	I	I											
Trip Blanks	A	A	A											
Field Duplicate/Replicate	NA	NA	NA											
Equipment Rinsate Blanks	N	N	N											
Electronic Deliverable vs. Hardcopy	NA	NA	NA											
Electronic Deliverable vs. Chain of Custody	A	A	A											

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method

N/R indicates data not available for review

NOTES: 1. Matrix interference for SVOCs.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 11/14/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43606 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-64	L43606-1 A,B	N	J	As, Pb, Hg, Se, F had matrix interferences.
2	I-2-30	L43606-2 A,B	N	J	As, Pb, Hg, Se, F had matrix interferences.
3	GW-56R	L43606-3 A,B	N	J	As, Pb, Hg, Se, F had matrix interferences.
4	GW-16R	L43606-4 A,B	N	J	As, Pb, Hg, Se, F had matrix interferences.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43606

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	AL	AL	AL	AL													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	AL	AL	AL	AL													
Initial Check Blank (ICP & AA methods)	AL	AL	AL	AL													
Continuing Calibration (ICP & AA methods)	AL	AL	AL	AL													
Injection Time(s) (all methods)	N	N	N	N													
Interference Check Standard (ICP Method)	AL	AL	AL	AL													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA	NA													
Matrix Spike/Matrix Spike Duplicate	1	1	1	1													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	NA	NA	NA	NA													
Electronic Deliverable vs. Chain of Custody	NA	NA	NA	NA													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. As, Pb, Hg, Se, F had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 11/15/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43629 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
1/22/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-95 SWC	L43629-1A,B,C	N	J	F, As, Pb, Se, Hg had matrix interferences.
2	P3-95 NEC	L43629-2A,B,C	N	J	F, As, Pb, Se, Hg had matrix interferences.
3	P3-97 NEC	L43629-3A,B,C	N	J	F, As, Pb, Se, Hg had matrix interferences.
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23					
24					

## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43629

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	AL	AL	AL														
Analyte List	A	A	A														
Reporting Limits	A	A	A														
Initial Calibration (all methods)	AL	AL	AL														
Initial Check Blank (ICP & AA methods)	AL	AL	AL														
Continuing Calibration (ICP & AA methods)	AL	AL	AL														
Injection Time(s) (all methods)	N	N	N														
Interference Check Standard (ICP Method)	AL	AL	AL														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA														
Matrix Spike/Matrix Spike Duplicate	I	I	I														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	NA	NA	NA														
Electronic Deliverable vs. Chain of Custody	NA	NA	NA														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. F, As, Pb, Se, Hg had matrix interferences.

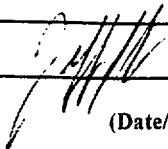
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 11/16/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L43644 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  1/22/01

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	CL-4	L43644-1A,B,C	N	J	F, As, Pb, Se, Hg had matrix interferences.
2					
3					
4					
5					
6					
7					
8					
9					
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11					
12					
13					
14					
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17					
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23					
24					



## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L43644

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	AL	AL	AL														
Analyte List	A	A	A														
Reporting Limits	A	A	A														
Initial Calibration (all methods)	AL	AL	AL														
Initial Check Blank (ICP & AA methods)	AL	AL	AL														
Continuing Calibration (ICP & AA methods)	AL	AL	AL														
Injection Time(s) (all methods)	N	N	N														
Interference Check Standard (ICP Method)	AL	AL	AL														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	NA	NA	NA														
Matrix Spike/Matrix Spike Duplicate	I	I	I														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	NA	NA	NA														
Electronic Deliverable vs. Chain of Custody	NA	NA	NA														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. F, As, Pb, Se, Hg had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Sample Collection Date(s): 12/18/00

Laboratory: AWAL MW Job Number: \_\_\_\_\_

Batch Identification: L44066 Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/15/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-95SWC	L44066-1 A,B	N	J	F, nitrate, As, Pb, Se, Hg, Ag, Na, Mg, Ca had matrix interferences.
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3					
4					
5					
6					
7					
8					
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11					
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## DATA VALIDATION WORKSHEET

Analytical Method: Various Methods Identification<sup>(a)</sup>: L44066

Laboratory: AWAL Batch Identification: \_\_\_\_\_

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	AL																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	AL																
Initial Check Blank (ICP & AA methods)	AL																
Continuing Calibration (ICP & AA methods)	AL																
Injection Time(s) (all methods)	N																
Interference Check Standard (ICP Method)	AL																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	NA																
Matrix Spike/Matrix Spike Duplicate	1																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	NA																
Electronic Deliverable vs. Chain of Custody	NA																

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. F, nitrate, As, Pb, Se, Hg, Ag, Na, Mg, Ca had matrix interferences.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 7/11/00

Laboratory: Barringer Job Number: 7138

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 7/13/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-103A	7138-01A,B,C	N	NA	None
2	GW-103B	7138-02A,B,C	N	NA	None
3	GW-103C	7138-03A,B,C	N	NA	None
4	GW-103D	7138-04A,B,C	N	NA	None
5	GW-104A	7138-05A,B,C	N	NA	None
6	GW-104B	7138-06A,B,C	N	NA	None
7	GW-104C	7138-07A,B,C	N	NA	None
8	GW-104D	7138-08A,B,C	N	NA	None
9	GW-105A	7138-09A,B,C	N	NA	None
10	GW-104B	7138-10A,B,C	N	NA	None
11	GW-105C	7138-11A,B,C	N	NA	None
12	GW-105D	7138-12A,B,C	N	NA	None
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 7138

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A	A	A	A	A					
Holding Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Analyte List	A	A	A	A	A	A	A	A	A	A	A	A					
Reporting Limits	A	A	A	A	A	A	A	A	A	A	A	A					
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Equipment Rinse Blanks	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A	A	A	A	A	A	A					
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A	A	A	A	A	A	A					

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: none

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 7/19/00

Laboratory: Barringer Job Number: 7251

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: Jeff B. for 7/29/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	MW Pond	7251-01A,B,C	N	NA	None
2	P3-95 Pond	7251-02A,B,C	N	NA	None
3	P3-97 Pond	7251-03A,B,C	N	NA	None
4	GW-904	7251-04A,B,C	N	NA	None
5					
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 7251

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	NA	NA	NA	NA													
Analyte List	A	A	A	A													
Reporting Limits	A	A	A	A													
Initial Calibration (all methods)	NA	NA	NA	NA													
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA													
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA													
Injection Time(s) (all methods)	NA	NA	NA	NA													
Interference Check Standard (ICP Method)	NA	NA	NA	NA													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL													
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	A	A	A	A													
Electronic Deliverable vs. Chain of Custody	A	A	A	A													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: none

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 8/1/00  
 Laboratory: Barringer Job Number: 0008080  
 Batch Identification: various Matrix: Waters  
 QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2  
 Validation Complete: *[Signature]* 11/28/00  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	0008080-01A,B	N	NA	None
2	GW-63	0008080-02A,B	N	NA	Iso-Th reporting limits not met
3	GW-776	0008080-03A,B	N	NA	Iso-Th reporting limits not met
4	GW-60	0008080-04A,B	N	NA	Iso-Th reporting limits not met
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27					



## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0008080

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	NA	NA	NA	NA													
Analyte List	A	A	A	A													
Reporting Limits	A	1	1	1													
Initial Calibration (all methods)	NA	NA	NA	NA													
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA													
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA													
Injection Time(s) (all methods)	NA	NA	NA	NA													
Interference Check Standard (ICP Method)	NA	NA	NA	NA													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL													
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	A	A	A	A													
Electronic Deliverable vs. Chain of Custody	A	A	A	A													

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Iso-Th reporting limits not met.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 8/3/00

Laboratory: Barringer Job Number: 0008081

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *S. M. Waters*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-58	0008081-01A,B,C	N	NA	None
2	GW-57	0008081-02A,B,C	N	NA	Reporting limits for Iso-Th exceeded.
3	GW-27	0008081-03A,B,C	N	NA	Reporting limits for Iso-Th exceeded.
4	GW-28	0008081-04A,B,C	N	NA	Reporting limits for Iso-Th exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:**           Various                **QC Identification<sup>(a)</sup>:**           various            
**Laboratory:**           Barringer                **Work Order:**           0008081          

Validation Criteria	Sample Number																		
	1	2	3	4								10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A															
Holding Time	NA	NA	NA	NA															
Analyte List	A	A	A	A															
Reporting Limits	A	I	I	I															
Initial Calibration (all methods)	NA	NA	NA	NA															
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA															
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA															
Injection Time(s) (all methods)	NA	NA	NA	NA															
Interference Check Standard (ICP Method)	NA	NA	NA	NA															
Method Blank (all methods)	AL	AL	AL	AL															
Laboratory Control Sample (all methods)	AL	AL	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL															
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL															
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA															
Field Duplicate/Replicate	NA	NA	NA	NA															
Equipment Rinsate Blanks	NA	NA	NA	NA															
Electronic Deliverable vs. Hardcopy	A	A	A	A															
Electronic Deliverable vs. Chain of Custody	A	A	A	A															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits for Iso-Th exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 8/3/00

Laboratory: Barringer Job Number: 8082

Batch Identification: various Matrix: Waters

QC Identification<sup>(\*)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 8/7/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-58A	8082-01A	N	NA	None
2	GW-58B	8082-02A	N	NA	None
3	GW-58A	8082-03A	N	NA	None
4	GW-28A	8082-04A,B,C	N	NA	None
5	GW-57A	8082-05A	N	NA	None
6	GW-57A	8082-06A	N	NA	None
7	GW-27A	8082-07A	N	NA	None
8	GW-27B	8082-08A	N	NA	None
9	GW-27A	8082-09A	N	NA	None
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 8082

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A	A								
Holding Time	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Analyte List	A	A	A	A	A	A	A	A	A								
Reporting Limits	A	A	A	A	A	A	A	A	A								
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL								
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL								
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL	AL	AL	AL								
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL	AL	AL	AL								
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A	A	A	A								
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A	A	A	A								

- (a) List QC batch identification if different than Batch ID  
A indicates validation criteria were met  
A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
X indicates validation criteria were not met  
N indicates data review were not a project specific requirement  
N/A indicates criteria are not applicable for the specified analytical method  
N/R indicates data not available for review

NOTES: none

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: various

Laboratory: Barringer Job Number: 0008237

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/6/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	0008237-01A	N	NA	Reporting limits for Iso-Thorium was exceeded.
2	GW-25	0008237-02A	N	NA	None
3	GW-20	0008237-03A	N	NA	Reporting limits for Iso-Thorium was exceeded.
4	GW-24	0008237-04A	N	NA	Reporting limits for Iso-Thorium was exceeded.
5	GW-29	0008237-05A	N	NA	Reporting limits for Iso-Thorium was exceeded.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0008237

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	NA	NA	NA	NA	NA												
Analyte List	A	A	A	A	A												
Reporting Limits	1	A	1	1	1												
Initial Calibration (all methods)	NA	NA	NA	NA	NA												
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA												
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA												
Injection Time(s) (all methods)	NA	NA	NA	NA	NA												
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL												
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinsate Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	A	A	A	A	A												
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Reporting limits for Iso-Thorium was exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

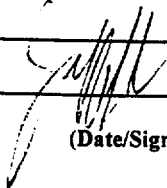
Analytical Method/Analytes: Various Radiochemical Sample Collection Date: various

Laboratory: Barringer Job Number: 0008237

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

 2/6/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	0008237-01A	N	NA	Reporting limits for Iso-Thorium was exceeded.
2	GW-25	0008237-02A	N	NA	None
3	GW-20	0008237-03A	N	NA	Reporting limits for Iso-Thorium was exceeded.
4	GW-24	0008237-04A	N	NA	Reporting limits for Iso-Thorium was exceeded.
5	GW-29	0008237-05A	N	NA	Reporting limits for Iso-Thorium was exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:**           Various           **QC Identification<sup>(a)</sup>:**           various            
**Laboratory:**           Barringer           **Work Order:**           0008237          

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	NA	NA	NA	NA	NA												
Analyte List	A	A	A	A	A												
Reporting Limits	1	A	1	1	1												
Initial Calibration (all methods)	NA	NA	NA	NA	NA												
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA												
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA												
Injection Time(s) (all methods)	NA	NA	NA	NA	NA												
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL												
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinse Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	A	A	A	A	A												
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits for Iso-Thorium was exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical      Sample Collection Date: various  
 Laboratory: Barringer      Job Number: 0008238  
 Batch Identification: various      Matrix: Waters  
 QC Identification<sup>(a)</sup>: \_\_\_\_\_      Page: 1 of 2  
 Validation Complete: *[Signature]* 11/27/00  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26A	0008238-01A	N	NA	Reporting limits for Iso-Thorium was exceeded.
2	GW-20A	0008238-02A	N	NA	Reporting limits for Th-232 were exceeded.
3	GW-24A	0008238-03A	N	NA	Reporting limits for Th-230 were exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:**           Various                **QC Identification<sup>(a)</sup>:**           various            
**Laboratory:**           Barringer                **Work Order:**           0008238          

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	NA	NA	NA														
Analyte List	A	A	A														
Reporting Limits	1	1	1														
Initial Calibration (all methods)	NA	NA	NA														
Initial Check Blank (ICP & AA methods)	NA	NA	NA														
Continuing Calibration (ICP & AA methods)	NA	NA	NA														
Injection Time(s) (all methods)	NA	NA	NA														
Interference Check Standard (ICP Method)	NA	NA	NA														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL														
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	A	A	A														
Electronic Deliverable vs. Chain of Custody	A	A	A														

- (a) List QC batch identification if different than Batch ID  
A indicates validation criteria were met  
A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
X indicates validation criteria were not met  
N indicates data review were not a project specific requirement  
N/A indicates criteria are not applicable for the specified analytical method  
N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded.

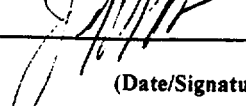
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 9/13/00

Laboratory: Barringer Job Number: 0009136

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  1/22/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	1B	0009136-01A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium Reporting Limits Exceeded Project Requirements.
2	2B	0009136-02A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium Reporting Limits Exceeded Project Requirements.
3	3B	0009136-03A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium Reporting Limits Exceeded Project Requirements.
4	4B	0009136-04A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium Reporting Limits Exceeded Project Requirements.
5	1A	0009136-05A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium Reporting Limits Exceeded Project Requirements. High Barium concentration necessitated the use of 903.0 for Ra-226 analysis.
6	2A	0009136-06A,B,C	N	NA	Alpha, Beta, K-40, Iso-Th, C-14, Tritium, Ra-228 Reporting Limits Exceeded Project Requirements.
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0009136

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A											
Holding Time	NA	NA	NA	NA	NA	NA											
Analyte List	A	A	A	A	A	A											
Reporting Limits	1	1	1	1	1	1											
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA											
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA											
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL											
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL											
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA											
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA											
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA											
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A											
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A											

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits exceeded project requirements.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/3/00

Laboratory: Barringer Job Number: 0010029

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/2/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-88	0010029-01A	N	NA	Alpha, Beta RLs exceeded
2	GW-89	0010029-02A	N	NA	Alpha, Beta RLs exceeded
3	GW-90	0010029-03A	N	NA	Alpha, Beta RLs exceeded
4	GW-91	0010029-04A	N	NA	Alpha, Beta RLs exceeded
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## DATA VALIDATION WORKSHEET

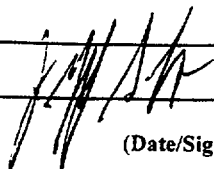
**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0010029

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	NA	NA	NA	NA													
Analyte List	A	A	A	A													
Reporting Limits	1	1	1	1													
Initial Calibration (all methods)	NA	NA	NA	NA													
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA													
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA													
Injection Time(s) (all methods)	NA	NA	NA	NA													
Interference Check Standard (ICP Method)	NA	NA	NA	NA													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL													
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	A	A	A	A													
Electronic Deliverable vs. Chain of Custody	A	A	A	A													

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Alpha, Beta RLs exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical      Sample Collection Date: 10/5/00  
 Laboratory: Barringer      Job Number: 0010086  
 Batch Identification: various      Matrix: Waters  
 QC Identification<sup>(a)</sup>: \_\_\_\_\_      Page: 1 of 2  
 Validation Complete:       2/27/01  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-63	0010086-01A	N	NA	Alpha, Beta reporting limits were exceeded.
2	GW-707	0010086-02A	N	NA	Alpha, Beta reporting limits were exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0010086

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	NA	NA															
Analyte List	A	A															
Reporting Limits	I	I															
Initial Calibration (all methods)	NA	NA															
Initial Check Blank (ICP & AA methods)	NA	NA															
Continuing Calibration (ICP & AA methods)	NA	NA															
Injection Time(s) (all methods)	NA	NA															
Interference Check Standard (ICP Method)	NA	NA															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	AL	AL															
Matrix Spike/Matrix Spike Duplicate	AL	AL															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	A	A															
Electronic Deliverable vs. Chain of Custody	A	A															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Alpha, Beta reporting limits were exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/9/00

Laboratory: Barringer Job Number: 0010087

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 1/22/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	I-1-30	0010087-01A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
2	GW-71	0010087-02A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
3	GW-659	0010087-03A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
4	GW-79	0010087-03A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
5	GW-666	0010087-03A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
6	GW-80	0010087-03A	N	NA	Reporting limits for Gross Alpha and Beta were exceeded.
7					
8					
9					
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16					
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21					
22					
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25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer **Work Order:** 0012158

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	NA	NA															
Analyte List	A	A															
Reporting Limits	I	I															
Initial Calibration (all methods)	NA	NA															
Initial Check Blank (ICP & AA methods)	NA	NA															
Continuing Calibration (ICP & AA methods)	NA	NA															
Injection Time(s) (all methods)	NA	NA															
Interference Check Standard (ICP Method)	NA	NA															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	AL	AL															
Matrix Spike/Matrix Spike Duplicate	AL	AL															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	A	A															
Electronic Deliverable vs. Chain of Custody	A	A															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded for indicated parameters.

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010087

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A											
Holding Time	NA	NA	NA	NA	NA	NA											
Analyte List	A	A	A	A	A	A											
Reporting Limits	1	1	1	1	1	1											
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA											
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA											
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL											
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL											
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA											
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA											
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA											
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A											
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A											

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Reporting limits for Gross Alpha and Beta were exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/4/00

Laboratory: Barringer Job Number: 0010166

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*J. Miller* 12/8/00  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-19A	0010166-01A	N	NA	None
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0010166

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	NA																
Analyte List	A																
Reporting Limits	I																
Initial Calibration (all methods)	NA																
Initial Check Blank (ICP & AA methods)	NA																
Continuing Calibration (ICP & AA methods)	NA																
Injection Time(s) (all methods)	NA																
Interference Check Standard (ICP Method)	NA																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	AL																
Matrix Spike/Matrix Spike Duplicate	AL																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	A																
Electronic Deliverable vs. Chain of Custody	A																

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/18/00

Laboratory: Barringer Job Number: 0010185

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-60	0010185-01A,C	N	NA	None
2	GW-58	0010185-02A,C	N	NA	None
3	GW-302	0010185-03A,C	N	NA	None
4	GW-28	0010185-04A,C	N	NA	None
5	GW-57	0010185-05A,C	N	NA	None
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer **Work Order:** 0010185

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	NA	NA	NA	NA	NA												
Analyte List	A	A	A	A	A												
Reporting Limits	A	A	A	A	A												
Initial Calibration (all methods)	NA	NA	NA	NA	NA												
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA												
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA												
Injection Time(s) (all methods)	NA	NA	NA	NA	NA												
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL												
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinse Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	A	A	A	A	A												
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A												

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None



**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/19/00

Laboratory: Barringer Job Number: 0010202

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *J.H.M. 10/19/00*

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-25	0010202-01A,B,C	N	NA	None
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0010202

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	NA																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	NA																
Initial Check Blank (ICP & AA methods)	NA																
Continuing Calibration (ICP & AA methods)	NA																
Injection Time(s) (all methods)	NA																
Interference Check Standard (ICP Method)	NA																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	AL																
Matrix Spike/Matrix Spike Duplicate	AL																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	A																
Electronic Deliverable vs. Chain of Custody	A																

- (a) List QC batch identification if different than Batch ID  
A indicates validation criteria were met  
A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
X indicates validation criteria were not met  
N indicates data review were not a project specific requirement  
N/A indicates criteria are not applicable for the specified analytical method  
N/R indicates data not available for review

NOTES: None

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/19/00

Laboratory: Barringer Job Number: 0010203

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 11/1/01

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-27	0010203-01A,B	N	NA	None
2	GW-36	0010203-01A	N	NA	None
3					
4					
5					
6					
7					
8					
9					
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25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010203

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	NA																
Analyte List	A																
Reporting Limits	A																
Initial Calibration (all methods)	NA																
Initial Check Blank (ICP & AA methods)	NA																
Continuing Calibration (ICP & AA methods)	NA																
Injection Time(s) (all methods)	NA																
Interference Check Standard (ICP Method)	NA																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	AL																
Matrix Spike/Matrix Spike Duplicate	AL																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinse Blanks	NA																
Electronic Deliverable vs. Hardcopy	A																
Electronic Deliverable vs. Chain of Custody	A																

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical      Sample Collection Date: 10/25/00  
 Laboratory: Barringer      Job Number: 0010250  
 Batch Identification: various      Matrix: Waters  
 QC Identification<sup>(a)</sup>: \_\_\_\_\_      Page: 1 of 2  
 Validation Complete: \_\_\_\_\_ 2/23/01  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-84	0010250-01A	N	NA	Alpha, Beta reporting limits were exceeded.
2	GW-85	0010250-02A	N	NA	Alpha, Beta reporting limits were exceeded.
3	GW-86	0010250-03A	N	NA	Alpha, Beta reporting limits were exceeded.
4	GW-406	0010250-04A	N	NA	Alpha, Beta reporting limits were exceeded.
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24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010250

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	NA	NA	NA	NA													
Analyte List	A	A	A	A													
Reporting Limits	1	1	1	1													
Initial Calibration (all methods)	NA	NA	NA	NA													
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA													
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA													
Injection Time(s) (all methods)	NA	NA	NA	NA													
Interference Check Standard (ICP Method)	NA	NA	NA	NA													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL													
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	A	A	A	A													
Electronic Deliverable vs. Chain of Custody	A	A	A	A													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Alpha, Beta reporting limits were exceeded.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/30/00

Laboratory: Barringer Job Number: 0011021

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]*

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-103	0011021-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
2	GW-104	0011021-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
3					
4					
5					
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18					
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20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0011021

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	NA	NA															
Analyte List	A	A															
Reporting Limits	1	1															
Initial Calibration (all methods)	NA	NA															
Initial Check Blank (ICP & AA methods)	NA	NA															
Continuing Calibration (ICP & AA methods)	NA	NA															
Injection Time(s) (all methods)	NA	NA															
Interference Check Standard (ICP Method)	NA	NA															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	AL	AL															
Matrix Spike/Matrix Spike Duplicate	AL	AL															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinse Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	A	A															
Electronic Deliverable vs. Chain of Custody	A	A															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.



**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 11/02/00

Laboratory: Barringer Job Number: 0011084

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/23/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-99	0011084-01A	N	NA	Alpha, Beta reporting limits were exceeded.
2	GW-94	0011084-02A	N	NA	Alpha, Beta reporting limits were exceeded.
3	GW-95	0011084-03A	N	NA	Alpha, Beta reporting limits were exceeded.
4					
5					
6					
7					
8					
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22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0011084

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	NA	NA	NA														
Analyte List	A	A	A														
Reporting Limits	1	1	1														
Initial Calibration (all methods)	NA	NA	NA														
Initial Check Blank (ICP & AA methods)	NA	NA	NA														
Continuing Calibration (ICP & AA methods)	NA	NA	NA														
Injection Time(s) (all methods)	NA	NA	NA														
Interference Check Standard (ICP Method)	NA	NA	NA														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL														
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	A	A	A														
Electronic Deliverable vs. Chain of Custody	A	A	A														

- (a) List QC batch identification if different than Batch ID  
A indicates validation criteria were met  
A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
X indicates validation criteria were not met  
N indicates data review were not a project specific requirement  
N/A indicates criteria are not applicable for the specified analytical method  
N/R indicates data not available for review

**NOTES:** 1. Alpha, Beta reporting limits were exceeded.

**FIGURE B.12-2**  
**INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/23/00

Laboratory: Barringer Job Number: 0010219

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_  
*(Date/Signature)*

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-26	0010219-01	N	NA	none
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010219

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A																
Holding Time	NA																
Analyte List	A																
Reporting Limits	I																
Initial Calibration (all methods)	NA																
Initial Check Blank (ICP & AA methods)	NA																
Continuing Calibration (ICP & AA methods)	NA																
Injection Time(s) (all methods)	NA																
Interference Check Standard (ICP Method)	NA																
Method Blank (all methods)	AL																
Laboratory Control Sample (all methods)	AL																
Laboratory Control Sample Duplicate (lab specific)	AL																
Matrix Spike/Matrix Spike Duplicate	AL																
Matrix Duplicate (Lab Specific)	NA																
Field Duplicate/Replicate	NA																
Equipment Rinsate Blanks	NA																
Electronic Deliverable vs. Hardcopy	A																
Electronic Deliverable vs. Chain of Custody	A																

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. none

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

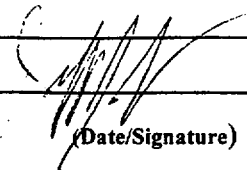
Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/23/00

Laboratory: Barringer Job Number: 0010220

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

  
2/23/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-20	0010220-01	N	NA	Alpha, Beta, Tc-99 exceeded reporting limits.
2	GW-24	0010220-02	N	NA	Alpha, Beta, Tc-99 exceeded reporting limits.
3	GW-23	0010220-03	N	NA	Alpha, Beta, Tc-99 exceeded reporting limits.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010220

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	NA	NA	NA														
Analyte List	A	A	A														
Reporting Limits	1	1	1														
Initial Calibration (all methods)	NA	NA	NA														
Initial Check Blank (ICP & AA methods)	NA	NA	NA														
Continuing Calibration (ICP & AA methods)	NA	NA	NA														
Injection Time(s) (all methods)	NA	NA	NA														
Interference Check Standard (ICP Method)	NA	NA	NA														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL														
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	A	A	A														
Electronic Deliverable vs. Chain of Custody	A	A	A														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Alpha, Beta, Tc-99 exceeded reporting limits.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/24/00

Laboratory: Barringer Job Number: 0010243

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_ 2/24/01

*[Handwritten Signature]*  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-22	0010243-01	N	NA	Alpha, Beta, TC-99 reporting limits were exceeded.
2	GW-81	0010243-02	N	NA	Alpha, Beta, TC-99 reporting limits were exceeded.
3	GW-82	0010243-03	N	NA	Alpha, Beta, TC-99 reporting limits were exceeded.
4	GW-83	0010243-04	N	NA	Alpha, Beta, TC-99 reporting limits were exceeded.
5	GW-405	0010243-054	N	NA	Alpha, Beta, TC-99 reporting limits were exceeded.
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27					

## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0010243

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A												
Holding Time	NA	NA	NA	NA	NA												
Analyte List	A	A	A	A	A												
Reporting Limits	1	1	1	1	1												
Initial Calibration (all methods)	NA	NA	NA	NA	NA												
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA												
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA												
Injection Time(s) (all methods)	NA	NA	NA	NA	NA												
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA												
Method Blank (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL												
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL												
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL												
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA												
Field Duplicate/Replicate	NA	NA	NA	NA	NA												
Equipment Rinsate Blanks	NA	NA	NA	NA	NA												
Electronic Deliverable vs. Hardcopy	A	A	A	A	A												
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A												

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Alpha, Beta, TC-99 reporting limits were exceeded.



**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/26/00

Laboratory: Barringer Job Number: 0011002

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/2-16/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-92	0011002-01	N	J	Alpha, Beta reporting limits were exceeded. RPDs for iso-U outside project limits.
2	GW-93	0011002-02	N	J	Alpha, Beta reporting limits were exceeded. RPDs for iso-U outside project limits.
3	GW-407	0011002-03	N	J	Alpha, Beta reporting limits were exceeded. RPDs for iso-U outside project limits.
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various **QC Identification<sup>(a)</sup>:** various

**Laboratory:** Barringer **Work Order:** 0011002

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	NA	NA	NA														
Analyte List	A	A	A														
Reporting Limits	1	1	1														
Initial Calibration (all methods)	NA	NA	NA														
Initial Check Blank (ICP & AA methods)	NA	NA	NA														
Continuing Calibration (ICP & AA methods)	NA	NA	NA														
Injection Time(s) (all methods)	NA	NA	NA														
Interference Check Standard (ICP Method)	NA	NA	NA														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL														
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	A	A	A														
Electronic Deliverable vs. Chain of Custody	A	A	A														

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded for indicated parameters.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 10/31/00

Laboratory: Barringer Job Number: 0011030

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
11/1/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-105	0011030-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
2	GW-102	0011030-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
3	GW-101	0011030-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
4	GW-100	0011030-01A,B,C	N	NA	Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0011030

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A													
Holding Time	NA	NA	NA	NA													
Analyte List	A	A	A	A													
Reporting Limits	1	1	1	1													
Initial Calibration (all methods)	NA	NA	NA	NA													
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA													
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA													
Injection Time(s) (all methods)	NA	NA	NA	NA													
Interference Check Standard (ICP Method)	NA	NA	NA	NA													
Method Blank (all methods)	AL	AL	AL	AL													
Laboratory Control Sample (all methods)	AL	AL	AL	AL													
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL													
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL													
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA													
Field Duplicate/Replicate	NA	NA	NA	NA													
Equipment Rinsate Blanks	NA	NA	NA	NA													
Electronic Deliverable vs. Hardcopy	A	A	A	A													
Electronic Deliverable vs. Chain of Custody	A	A	A	A													

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: 1. Laboratory MDAs exceeded project limits for Tc, Alpha, Beta.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 11/13/00

Laboratory: Barringer Job Number: 0011142

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *[Signature]* 2/2-1/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-29	0011142-01	N	J	Alpha, Beta reporting limits were exceeded.
2	GW-77	0011142-02	N	J	Alpha, Beta reporting limits were exceeded.
3	GW-64	0011142-03	N	J	Alpha, Beta reporting limits were exceeded.
4	I-2-30	0011142-04	N	J	Alpha, Beta Tc-99 reporting limits were exceeded.
5	GW-56R	0011142-05	N	J	Alpha, Beta Tc-99 reporting limits were exceeded.
6	GW-16R	0011142-06	N	J	Alpha, Beta Tc-99 reporting limits were exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0011142

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A											
Holding Time	NA	NA	NA	NA	NA	NA											
Analyte List	A	A	A	A	A	A											
Reporting Limits	1	1	1	1	1	1											
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA											
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA											
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA											
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA											
Method Blank (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL											
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL											
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL											
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA											
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA											
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA											
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A											
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A											

- (a) List QC batch identification if different than Batch ID
- A indicates validation criteria were met
  - AL indicates validation criteria were met based upon Laboratory's QC Summary Form
  - X indicates validation criteria were not met
  - N indicates data review were not a project specific requirement
  - N/A indicates criteria are not applicable for the specified analytical method
  - N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded for indicated parameters.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Tc-99 Sample Collection Date: Various

Laboratory: Barringer Job Number: 0012009

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: J. M. M. 1/22/01

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-119	0012009-01	N	NA	None
2	GW-120	0012009-02	N	NA	None
3	GW-121	0012009-03	N	NA	None
4	GW-122	0012009-04	N	NA	None
5	GW-108	0012009-05	N	NA	None
6	GW-109	0012009-06	N	NA	None
7	GW-110	0012009-07	N	NA	None
8	GW-111	0012009-08	N	NA	None
9	GW-112	0012009-09	N	NA	None
10	GW-113	0012009-10	N	NA	None
11	GW-114	0012009-11	N	NA	None
12	GW-115	0012009-12	N	NA	None
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0012009

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A	A	A	A	A					
Holding Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Analyte List	A	A	A	A	A	A	A	A	A	A	A	A					
Reporting Limits	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL					
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A	A	A	A	A	A	A					
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A	A	A	A	A	A	A					

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None



**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 11/13/00

Laboratory: Barringer Job Number: 0011158

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
11/24/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-95 SWC	0011158-01	N	J	Alpha, Beta, Iso-U reporting limits were exceeded.
2	P3-95 NEC	0011158-02	N	J	Alpha, Beta, Tc-99 reporting limits were exceeded.
3	P3-97 NEC	0011158-03	N	J	Alpha, Beta reporting limits were exceeded.
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## DATA VALIDATION WORKSHEET

**Analytical Method:** Various      **QC Identification<sup>(a)</sup>:** various  
**Laboratory:** Barringer      **Work Order:** 0011158

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A														
Holding Time	NA	NA	NA														
Analyte List	A	A	A														
Reporting Limits	l	l	l														
Initial Calibration (all methods)	NA	NA	NA														
Initial Check Blank (ICP & AA methods)	NA	NA	NA														
Continuing Calibration (ICP & AA methods)	NA	NA	NA														
Injection Time(s) (all methods)	NA	NA	NA														
Interference Check Standard (ICP Method)	NA	NA	NA														
Method Blank (all methods)	AL	AL	AL														
Laboratory Control Sample (all methods)	AL	AL	AL														
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL														
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL														
Matrix Duplicate (Lab Specific)	NA	NA	NA														
Field Duplicate/Replicate	NA	NA	NA														
Equipment Rinsate Blanks	NA	NA	NA														
Electronic Deliverable vs. Hardcopy	A	A	A														
Electronic Deliverable vs. Chain of Custody	A	A	A														

- (a) List QC batch identification if different than Batch ID  
A indicates validation criteria were met  
A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
X indicates validation criteria were not met  
N indicates data review were not a project specific requirement  
N/A indicates criteria are not applicable for the specified analytical method  
N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded for indicated parameters.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 11/15/00

Laboratory: Barringer Job Number: 0011180

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: \_\_\_\_\_

*[Handwritten Signature]*  
2/2/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-97A	0011180-01	N	J	Beta reporting limits were exceeded.
2	CL-4	0011180-02	N	J	Alpha, Beta, Tc-99, iso-U reporting limits were exceeded.
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## DATA VALIDATION WORKSHEET

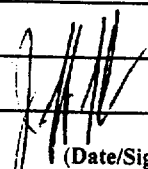
**Analytical Method:**           Various           **QC Identification<sup>(a)</sup>:**           various            
**Laboratory:**           Barringer           **Work Order:**           0011180          

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A															
Holding Time	NA	NA															
Analyte List	A	A															
Reporting Limits	l	l															
Initial Calibration (all methods)	NA	NA															
Initial Check Blank (ICP & AA methods)	NA	NA															
Continuing Calibration (ICP & AA methods)	NA	NA															
Injection Time(s) (all methods)	NA	NA															
Interference Check Standard (ICP Method)	NA	NA															
Method Blank (all methods)	AL	AL															
Laboratory Control Sample (all methods)	AL	AL															
Laboratory Control Sample Duplicate (lab specific)	AL	AL															
Matrix Spike/Matrix Spike Duplicate	AL	AL															
Matrix Duplicate (Lab Specific)	NA	NA															
Field Duplicate/Replicate	NA	NA															
Equipment Rinsate Blanks	NA	NA															
Electronic Deliverable vs. Hardcopy	A	A															
Electronic Deliverable vs. Chain of Custody	A	A															

(a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

**NOTES:** 1. Reporting limits were exceeded for indicated parameters.

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Tc-99 Sample Collection Date: Various  
 Laboratory: Barringer Job Number: 0012013  
 Batch Identification: various Matrix: Waters  
 QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2  
 Validation Complete:  1/22/01  
 (Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-63	0012013-01	N	NA	None
2	GW-707	0012013-02	N	NA	None
3	I-1-30	0012013-03	N	NA	None
4	GW-71	0012013-04	N	NA	None
5	GW-659	0012013-05	N	NA	None
6	GW-79	0012013-06	N	NA	None
7	GW-666	0012013-07	N	NA	None
8	GW-80	0012013-08	N	NA	None
9	GW-88	0012013-09	N	NA	None
10	GW-89	0012013-10	N	NA	None
11	GW-90	0012013-11	N	NA	None
12	GW-91	0012013-12	N	NA	None
13	GW-116	0012013-13	N	NA	None
14	GW-117	0012013-14	N	NA	None
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0012013

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Holding Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Analyte List	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Reporting Limits	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL			
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL			
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL			
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL			
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL			
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Equipment Rinsate Blanks	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A	A	A	A	A	A	A	A	A			

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None

**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Tc-99 Sample Collection Date: Various

Laboratory: Barringer Job Number: 0012014

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete: *Jeff S. [Signature]* 1/22/05

(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW-66	0012014-01	N	NA	None
2	GW-41	0012014-02	N	NA	None
3	GW-42	0012014-03	N	NA	None
4	GW-67	0012014-04	N	NA	None
5	GW-67R	0012014-05	N	NA	None
6	GW-68	0012014-06	N	NA	None
7	GW-68R	0012014-07	N	NA	None
8	GW-69	0012014-08	N	NA	None
9	GW-69R	0012014-09	N	NA	None
10	GW-70	0012014-10	N	NA	None
11	GW-25	0012014-11	N	NA	None
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## DATA VALIDATION WORKSHEET

Analytical Method: Various QC Identification<sup>(a)</sup>: various

Laboratory: Barringer Work Order: 0012014

Validation Criteria	Sample Number																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Hardcopy vs. Chain-of-Custody	A	A	A	A	A	A	A	A	A	A	A						
Holding Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Analyte List	A	A	A	A	A	A	A	A	A	A	A						
Reporting Limits	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL						
Initial Calibration (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Initial Check Blank (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Continuing Calibration (ICP & AA methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Injection Time(s) (all methods)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Interference Check Standard (ICP Method)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Method Blank (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL						
Laboratory Control Sample (all methods)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL						
Laboratory Control Sample Duplicate (lab specific)	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL						
Matrix Spike/Matrix Spike Duplicate	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL						
Matrix Duplicate (Lab Specific)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Field Duplicate/Replicate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Equipment Rinse Blanks	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Electronic Deliverable vs. Hardcopy	A	A	A	A	A	A	A	A	A	A	A						
Electronic Deliverable vs. Chain of Custody	A	A	A	A	A	A	A	A	A	A	A						

- (a) List QC batch identification if different than Batch ID  
 A indicates validation criteria were met  
 A/L indicates validation criteria were met based upon Laboratory's QC Summary Form  
 X indicates validation criteria were not met  
 N indicates data review were not a project specific requirement  
 N/A indicates criteria are not applicable for the specified analytical method  
 N/R indicates data not available for review

NOTES: None



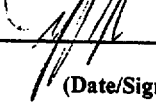
**FIGURE B.12-2  
INORGANIC ANALYSIS DATA VALIDATION WORKSHEET**

Analytical Method/Analytes: Various Radiochemical Sample Collection Date: 12/18/00

Laboratory: Barringer Job Number: 0012158

Batch Identification: various Matrix: Waters

QC Identification<sup>(a)</sup>: \_\_\_\_\_ Page: 1 of 2

Validation Complete:  2/24/01  
(Date/Signature)

Sample No.	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	P3-95 SWC	0012158-01	N	J	Alpha, Beta reporting limits were exceeded.
2	GW-701	0012158-02	N	J	Alpha, Beta reporting limits were exceeded.
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