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International Specialists in the Environment

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MEMORANDUM

TO: Mike Zimmerman, OSC
EPA/ERB - Denver

FROM: Kent Alexander
TAT - Region VIII

DATE: March 20, 1991

SUBJECT: Data Results for Richardson Flats; TDD #T08-9102-001

This memorandum was written to satisfy the requirements of Technical Direction Document (TDD) #T08-9102-001 issued to the Ecology and Environment, Inc., Technical Assistance Team by the Region VIII Environmental Protection Agency Emergency Response Branch (EPA/ERB).

Please find attached the data results from the water sampling at the Richardson Flats site in Park City, Utah. The results have not received a QA/QC review. If you would like a review to be performed, please let me know so that it will receive a priority assignment.

The results may be found in the attached table or in the raw data at the end. Samples RF-DW-2 and RF-DW-5 are field duplicates. A blank sample was also taken.

The following qualifiers were attached to the sample results by the laboratory:

B - The sample result was above the IDL but below the CRDL.
U - The element was analyzed for but not detected.
W - The furnace post digestion spike was out of range.

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TABLE 1
INORGANIC SAMPLE RESULTS (ug/L)
RICHARDSON FLATS
TDD #T08-9102-001

Sample Location	RF-DW-1	RF-DW-1	RF-DW-1	RF-DW-1	RF-DW-2	RF-DW-2	RF-DW-2
Sample Tag #	8-20079	8-20080	8-20081	8-20082	8-20083	8-20084	8-20086
Lab ID #	WA6954	WA6955	WA6956	WA6957	WA6958	WA6959	WA6960
Date	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91
Time	1039	1039	1039	1039	1200	1200	1200
Purged	Yes	No	Yes	No	No	Yes	Yes
Filtered	No	No	Yes	Yes	No	No	Yes
Arsenic	3.00 UW	3.00 UW	3.00 UW	3.00 UW	3.00 UW	3.00 UW	3.00 UW
Cadmium	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Chromium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Lead	5.90	1.00 B	1.00 U	1.00 U	1.10 B	5.20	1.00 UW

Sample Location	RF-DW-4	RF-DW-4	RF-DW-5	RF-DW-5	RF-DW-5	RF-DW-5	RF-BL-1
Sample Tag #	8-20091	8-20093	8-18978	8-18979	8-18980	8-18981	8-20087
Lab ID #	WA6962	WA6963	WA6950	WA6951	WA6952	WA6953	WA6961
Date	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91	03/07/91
Time	1224	1224	1300	1300	1300	1300	1420
Purged	No	No	No	Yes	No	Yes	No
Filtered	No	Yes	No	No	Yes	Yes	No
Arsenic	4.80 B	3.00 U	3.80 B	3.00 UW	3.00 UW	3.00 UW	3.00 U
Cadmium	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Chromium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Lead	1.00 U	1.60 B	36.9	1.40 B	1.90 B	2.80 B	1.00 U

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

8

Lab Name: SILVER VALLEY LABS., INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6950

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.80	B		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	36.90			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-48978

EPA SAMPLE NO. 9

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6951

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.40	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-18979.

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EPA SAMPLE NO.

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1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6952

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.90	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-18980.

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INORGANIC ANALYSIS DATA SHEET

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Lab Name: SILVER VALLEY LABS..INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6953

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.80	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-18981.

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EPA SAMPLE NO.

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1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6954

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.90			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20079.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6955

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20080.

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1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6956

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20081.

EPA SAMPLE NO. 15

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6957

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20082.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6958

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.10	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20083.

INORGANIC ANALYSIS DATA SHEET

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Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6959

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.20			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20084.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6960

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	U	W	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20086.

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

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Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6961

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20087.

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EPA SAMPLE NO.

20

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS., INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6962

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.80	B		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20091.

EPA SAMPLE NO.

21

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: SILVER VALLEY LABS.,INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: JOB154

Matrix (soil/water): WATER Lab Sample ID: WA6963

Level (low/med): Date Received: 3/08/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.00	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.60	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
CLIENT # 8-20093.

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ecology and environment