NDEP METEORIC WATER MOBILITY TEST
LABORATORY NUMBER
INVOICE NUMBER

Sample I.D.: Arimetco Clay 8-26-91

32 ELEMENT ANALYSIS

Sample I.D.:

Element	ppm	Element	ppm	Element	ppm
Aluminum	0.536	Gallium	0.404	Scandium	0.013
Antimony	-0.025	Iron	0.318	Selenium	0.240
Arsenic	0.081	Lead	0.088	Silver	-0.025
Barium	0.029	Lithium	0.369	Sodium	655.7
Beryllium	0.002	Magnesium	129.0	Strontium	4.531
Bismuth	0.097	Manganese	0.279	Thallium	-0.040
Cadmium	-0.005	Mercury	-0.001	Tin	0.453
Calcium	752.9	Molybdenum	0.370	Titanium	0.005
Chromium	0.042	Nickel	0.056	Vanadium	0.058
Cobalt	0.033	Phosphorus	0.255	Zinc	0.053
Copper	0.177	Potassium	21.39		

EPA METHOD: 200 SERIES

Respectfully Submitted

Wayne Colwell

Wayne M. Colwell
General Manager

Summary of sampling procedures

All were 0 to 6" samples.

Date: 2-27-02
Time: 10:30 A.M – 1:00 P.M.
Participants: Mark Willow (SRK), Joe Sawyer (SRK), Art Gravenstein (NDEP), Larry Peterson (NDEP)
Weather: Sunny, Winds calm, Temperature approx. 57 degrees F

Executive Summary

Sample areas were marked using a global positioning system, Gps Garmin Etrex 12 channel GPS. The unit accuracy was ±22 feet at the time samples were collected. No attempt was made to mark the exact locations of sample collection locations. However, the following coordinates and elevations are near the center of sample location areas. Digital photos of sample collection are provided for visual location reference. A copy of the Chain of Custody is attached. The following is a site specific general description of samples taken.

YIB1 (Yerington Iron Bleed Samples Area 1)

- Two separate discreet samples of iron bleed material were collected
- Two five gallon buckets of this material were marked with the same identification number as the corresponding sample numbers (YIB1-1 and YIB1-2) and stored at the mine office for future use if needed.
- GPS Coordinates and Elevation

  Elev: 4522 feet
  N 39 ° 00' 07.1"
  W119° 12' 25.8"

YIB2 (Yerington Iron Bleed Samples Area 2)

- One composite sample (from three locations inside the concrete area) was collected
- One five gallon bucket of this material were marked with the same identification number as the corresponding sample numbers (YIB2-1) and stored at the mine office for future use if needed
- GPS Coordinates and Elevation

  Elev: 4471
  N 38 ° 59' 51.8"
  W119° 12' 25.8"

YIB3 (Yerington Iron Bleed Samples Area 3)

- Three separate discreet samples of iron bleed material were collected
- Three five gallon buckets of this material were marked with the same identification number as the corresponding sample numbers (YIB3-1, YIB3-2, YIB3-3) and stored at the mine office for future use if needed
- GPS Coordinates and Elevation

  Elev: 4432
  N 39 ° 00' 11.9"
  W119° 12' 14.1"

YVLT1 (Yerington Vat Leach Tails samples Area 1)

- Three separate discreet samples of Vat Leach Tailings material were collected
- Three five gallon buckets of this material were marked with the same identification Number as the corresponding sample numbers (YVLT1-1, YVLT1-2, YVLT1-2 Duplicate,YVLT1-3)and stored at the mine office for future use if needed
- One discreet sample for sieve analysis was collected
- GPS Coordinates and Elevation

  Elev: 4536
  N 39 ° 00' 07.8"
  W119° 12' 26.4"

YVLT3 (Yerington Vat Leach Tails samples Area 3)

- Three separate discreet samples of Vat Leach Tailings material were collected
- Three five gallon buckets of this material were marked with the same identification number as the corresponding sample numbers (YVLT3-1, YVLT3-2, YVLT3-d Duplicate) and stored at the mine office for future use if needed
- One discreet sample of Vat Leach Tailings material was collected for sieve analysis
- GPS Coordinates and Elevation

  Elev: 4433
  N 39 ° 00' 11.9"
  W119° 12' 14.2"

CLIENT: SRK
AAL REF: EV6771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT1-1

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		1.71	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.117	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		175	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L		0.036	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		45.7	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		0.124	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L		0.009	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		17.1	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.401	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L		0.031	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		1.83	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		18.9	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.330	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		5.13	0.01	APHA4500H+B	03-06-02	03-06-02

Initial pH is 5.03!

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV5771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT1-2

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		2.79	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.116	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		195	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L		0.027	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		25.6	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		0.029	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L	<	0.007	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		21.5	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.336	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L		0.029	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		1.24	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		15.6	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.295	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		4.79	0.01	APHA4500H+B	03-06-02	03-06-02

5.03

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV6771B
ATTN: Merk Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT1-2 Duplicate

PARAMETER	D.F	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		3.28	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.102	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		192	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L		0.034	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		34.5	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		0.0330	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L	<	0.007	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		26.0	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.417	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L		0.036	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		1.33	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		14.0	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.265	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		4.80	0.01	APHA4500H+B	03-06-02	03-06-02

5 of 3

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV6771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT1-3

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		1.73	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.149	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		158	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L		0.065	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		48.5	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		0.116	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L		0.009	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		16.8	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.589	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L		0.035	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		1.35	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		16.5	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.428	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		5.08	0.01	APHA4500H+B	03-06-02	03-06-02

L 9.97

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV6771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT3-1

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	----	mg/L		2.26	0.020	200.7	03-06-02	03-08-02
ANTIMONY	----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	----	mg/L		0.134	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		232	2.50	200.7	03-06-02	03-12-02
CHROMIUM	----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	----	mg/L		0.023	0.020	200.7	03-06-02	03-08-02
COPPER	----	mg/L		33.5	0.010	200.7	03-06-02	03-12-02
IRON	----	mg/L		0.121	0.020	200.7	03-06-02	03-08-02
LEAD	----	mg/L		0.012	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	----	mg/L		17.2	0.10	200.7	03-06-02	03-08-02
MANGANESE	----	mg/L		0.253	0.005	200.7	03-06-02	03-08-02
MERCURY	----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	----	mg/L		0.027	0.020	200.7	03-06-02	03-08-02
POTASSIUM	----	mg/L		2.57	0.10	200.7	03-06-02	03-08-02
SELENIUM	----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	----	mg/L		18.6	0.50	200.7	03-06-02	03-08-02
THALLIUM	----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	----	mg/L		0.340	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	----	s.u.		4.92	0.01	APHA4500H+B	03-06-02	03-06-02

457

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV6771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT3-2 Duplicate

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		3.19	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.122	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		157	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		8.77	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		1.85	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L	<	0.007	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		6.49	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.082	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L		0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		2.92	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		12.7	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.132	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		4.86	0.01	APHA4500H+B	03-06-02	03-06-02

4.97

Jennifer Webster
Laboratory Manager

CLIENT: SRK
AAL REF: EV6771B
ATTN: Mark Willow
ANALYSIS PERFORMED BY AAL ENVIRONMENTAL LLC - NV00040

YVLT3-3

PARAMETER	D.F.	UNITS			DETECTION LIMIT	EPA METHOD	EXTRACTION DATE	ANALYSIS DATE
ALUMINUM	-----	mg/L		1.35	0.020	200.7	03-06-02	03-08-02
ANTIMONY	-----	mg/L	<	0.003	0.003	200.7	03-06-02	03-08-02
ARSENIC	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
BARIUM	-----	mg/L		0.140	0.020	200.7	03-06-02	03-08-02
BERYLLIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CADMIUM	-----	mg/L	<	0.002	0.002	200.7	03-06-02	03-08-02
CALCIUM	1/5	mg/L		154	2.50	200.7	03-06-02	03-12-02
CHROMIUM	-----	mg/L	<	0.005	0.005	200.7	03-06-02	03-08-02
COBALT	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
COPPER	-----	mg/L		14.1	0.010	200.7	03-06-02	03-12-02
IRON	-----	mg/L		0.050	0.020	200.7	03-06-02	03-08-02
LEAD	-----	mg/L	<	0.007	0.007	200.7	03-06-02	03-08-02
MAGNESIUM	-----	mg/L		10.0	0.10	200.7	03-06-02	03-08-02
MANGANESE	-----	mg/L		0.200	0.005	200.7	03-06-02	03-08-02
MERCURY	-----	mg/L	<	0.0005	0.0005	245.1	03-06-02	03-13-02
NICKEL	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
POTASSIUM	-----	mg/L		2.08	0.10	200.7	03-06-02	03-08-02
SELENIUM	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SILVER	-----	mg/L	<	0.010	0.010	200.7	03-06-02	03-08-02
SODIUM	-----	mg/L		15.6	0.50	200.7	03-06-02	03-08-02
THALLIUM	-----	mg/L	<	0.001	0.001	200.7	03-06-02	03-08-02
VANADIUM	-----	mg/L	<	0.020	0.020	200.7	03-06-02	03-08-02
ZINC	-----	mg/L		0.279	0.050	200.7	03-06-02	03-08-02
pH of FINAL LEACHATE	-----	s.u.		5.13	0.01	APHA4500H+B	03-06-02	03-06-02

4.97

Jennifer Webster
Laboratory Manager