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EarthFax

EarthFax
Engineering Inc.
Engineers/Scientists
7324 South 1300 East
Suite 100
Midvale, Utah 84047
Telephone 801-561-1555

October 19, 1990

DIVISION OF
OIL, GAS & MINING

Mr. Daron Haddock
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Subject: Blazon No. 1 Mine water quality analysis for Mud Creek

Dear Daron:

Enclosed please find the laboratory analysis for the water quality samples collected from Mud Creek upstream and downstream of the disturbed area at the Blazon No. 1 Mine. The samples were collected on September 25, 1990, which represents the period of seasonal low flows.

In addition to the laboratory analysis, the measured field data are as follows:

	<u>Upstream</u>	<u>Downstream</u>
Specific Conductivity (umhos/cm)	316	455
Temperature (°C)	9	10
Flow (cfs)	.30	.30

Our pH meter was damaged on the way to the mine site and, therefore, the pH was measured by the laboratory.

Please contact us if you have any questions or need additional information.

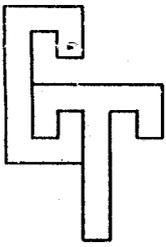
Sincerely,

Carol A. Bjork

Carol A. Bjork
Civil Engineer

Enclosure

cc: Adam Affleck (Holme, Roberts & Owen)
Jill Hodge (NAE)



CHEMTECH

CHEMICAL AND BACTERIOLOGICAL ANALYSES

6100 S. STRATLER
MURRAY, UTAH 84107
(801) 262-7299

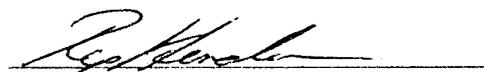
DATE: 10-10-90

TO: EarthFax Engineering, Inc.
7324 South 1300 East STE 100
Midvale, UT 84047

DATE SUBMITTED: 9-25-90 - Blazon Mine, 9-25-90

CERTIFICATE OF ANALYSIS

SAMPLE ID:	UP STREAM	DOWN STREAM
LAB:	<u>U054836</u>	<u>U054837</u>
<u>PARAMETER</u>		
Acidity as CaCO ₃ , mg/l	<10	<10
Bicarbonate as HCO ₃ , mg/l	206	206
Carbonate as CO ₃ , mg/l	4.9	6.1
Calcium as Ca, mg/l	45.8	41.2
Chloride as Cl, mg/l	3.0	2.4
Hardness as CaCO ₃ , mg/l	207	208
Iron as Fe (D), mg/l	0.160	0.122
Magnesium as Mg (D), mg/l	21.3	21.1
Manganese as Mn (T), mg/l	<.01	<.01
Potassium as K, mg/l	0.6	0.7
Sodium as Na, mg/l	2.8	2.6
Sulfate as SO ₄ , mg/l	17.7	18.5
TSS, mg/l	2.4	4.0
TDS, mg/l	223	221
Settleable Solids, mg/l	<.1	<.1
pH Units	8.43	8.50
Oil & Grease, mg/l	<.5	<.5
Cation, meq/l	4.18	3.93
Anion, meq/l	3.99	4.03


Rex Henderson