

0021



The CalMat Companies

July 17, 1991

Mr. Lowell P. Braxton  
Administrator  
Utah Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Re: Ivie Creek, Hidden Valley Project  
1991 Stream Monitoring Work

Dear Mr. Braxton:

Enclosed are the results of the May 1991 stream monitoring work for Ivie Creek at the Hidden Valley Project in Emery County, Utah.

Sample and field measurements were taken on June 7, 1991. The delay in obtaining the May samples has been addressed in a letter dated June 10, 1991 from JBR Consultants Group to the Division. Both the field results, including work sheets, and the laboratory results are included here. Site #1 is the upstream monitoring site and is located on the west side of the property. Site #2, the downstream monitoring site, is located just to the east of the property line.

Please contact me if you have any questions regarding this matter.

Sincerely,

Hidden Valley Coal Company

Lee Edmonson, Manager  
Planning and Regulatory Affairs

LE/csb

Enclosures

Bill  
Pam: route to mine file  
File # 1015/1007 #2 let #7

Route to Tom/Hugh  
~~from~~ then  
-file-

RECEIVED

JUL 19 1991

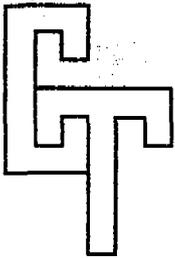
DIVISION OF OIL GAS & MINING

mine file - correspondence

RECEIVED  
AUG - 5 1991  
DIVISION OF OIL GAS & MINING PRICE UTAH

HIDDEN VALLEY MINE  
WATER MONITORING SUMMARY  
June 7, 1991

Location	Flow (cfs)	Temperature degrees C	pH	Conductivity (micromhos)	Dissolved Oxygen (mg/l)
#1 Ivie Ck (upper)	1.0	24	8.5	3300	7.3
#2 Ivie Ck (lower)	1.0	23	8.4	3000	7.3



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-28-91

TO: JBR Consultants  
1952 E. Fort Union Blvd. STE 209  
Salt Lake City, Utah 84121

DATE SUBMITTED: 6-10-91 - CALMAT-Hidden Valley

DATE SAMPLED: 6-07-91

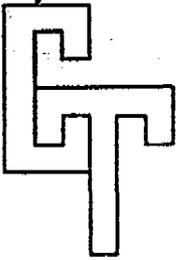
## CERTIFICATE OF ANALYSIS

SAMPLE ID: Ivie Creek  
Upstream  
LAB: U064874

### PARAMETER

Acidity, mg/l	<10
Bicarbonate as HCO <sub>3</sub> , mg/l	307
Carbonate as CO <sub>3</sub> , mg/l	11.5
Calcium as Ca, mg/l	147
Chloride as Cl, mg/l	145
Hardness as CaCO <sub>3</sub> , mg/l	1,420
Magnesium as Mg, mg/l	199
Potassium as K, mg/l	1.4
Sodium as Na, mg/l	494
Sulfate as SO <sub>4</sub> , mg/l	1,570
TDS, mg/l	2,800
Iron as Fe (D), mg/l	0.010
Iron as Fe (T), mg/l	0.110
Manganese as Mn (T), mg/l	0.095
Oil & Grease, mg/l	<.5
Settleable Solids, ml/l	<.1
TSS, mg/l	103
Cation, meq/l	45.2
Anion, meq/l	42.2

  
Rex Henderson



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## CERTIFICATE OF ANALYSIS

SAMPLE ID: Ivie Creek  
LAB: Downstream  
U064875

### PARAMETER

Acidity, mg/l	<10
Bicarbonate as HCO <sub>3</sub> , mg/l	300
Carbonate as CO <sub>3</sub> , mg/l	9.2
Calcium as Ca, mg/l	139
Chloride as Cl, mg/l	138
Hardness as CaCO <sub>3</sub> , mg/l	1,240
Magnesium as Mg, mg/l	189
Potassium as K, mg/l	1.5
Sodium as Na, mg/l	478
Sulfate as SO <sub>4</sub> , mg/l	1,450
TDS, mg/l	2,684
Iron as Fe (D), mg/l	0.010
Iron as Fe (T), mg/l	0.093
Manganese as Mn (T), mg/l	0.095
Oil & Grease, mg/l	<.5
Settleable Solids, ml/l	<.1
TSS, mg/l	89
Cation, meq/l	43.3
Anion, meq/l	39.3

  
Rex Henderson