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mine fld-permit
cc JWC
TPB
PAL
orig file

CalMat
of Arizona

The CalMat Companies

June 20, 1995

James W. Carter, Esq.
Director
Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Routed to Ken, Lisa
this copy to Bill M.

Re: Ivie Creek, Hidden Valley Mine
1995 Stream Monitoring Work

Dear Mr. Carter:

Enclosed are the results of the May, 1995 stream monitoring work for Ivie Creek at the Hidden Valley Mine in Emery County, Utah.

Sample and field measurements were taken on May 16, 1995. 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
Permitting & Regulatory Affairs

LE/cn
Enclosures

HIDDEN VALLEY MINE
WATER MONITORING SUMMARY
FIELD MEASUREMENT SHEET

Date Sampled: May 16, 1995

Time Sampled: Site #1: 1130
Site #2: 1000

Samplers: Mark James, JBR Environmental Consultants
Claude Dahlk, JBR Environmental Consultants

Location	Flow (cfs)	Temperature degrees C	Conductivity (micromhos)	Dissolved Oxygen (mg/l)	pH (std units)
#1 Ivie Ck (upper)	0.8	16	2,250	*	9
#2 Ivie Ck (lower)	0.8	14	3,000	7.9	9

NOTES: pH was done by litmus strip - approximate
* error in measurement, not reported here

DATE: 5-31-95

TO: JBR Consultants
8160 So. Highland Dr. STE A-4
Sandy, Utah 84093

SAMPLE ID: Lab #U026790
PROJECT: Hidden Valley Coal Mine: IVY-1
DATE SAMPLED: 5-16-95 @ 1000 by Karla Knoop
DATE SUBMITTED: 5-17-95

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE RUNBY/ANALYZED/METHOD/MDL
Oil & Grease, mg/l	<5	BL 5-30-95 EPA 413.1 5.0
TDS, mg/l	2,820	SB 5-17-95 EPA 160.1 5.0
SS, ml/l	<2	SB 5-17-95 EPA 160.5 2.0
TSS, mg/l	24	SB 5-17-95 EPA 160.2 5.0
pH Units	8.50	RG 5-17-95 EPA 150.1 0-14
Conductivity, umhos/cm	3,330	RG 5-23-95 EPA 120.1 5.0
Hardness as $CaCO_3$, mg/l	1,280	RG 5-23-95 EPA 130.2 5.0
Acidity as $CaCO_3$, mg/l	<10	RG 5-23-95 EPA 305.1 10
Chloride as Cl, mg/l	162	RG 5-18-95 EPA 325.3 1.0
Sulfate as SO_4, mg/l	1,650	TM 5-29-95 SM 4500D 5.0
Bicarbonate as HCO_3, mg/l	292	RG 5-17-95 SM 2320B 1.0
Carbonate as CO_3, mg/l	17	RG 5-17-95 SM 2320B 1.0
Calcium as Ca (Diss), mg/l	166	JO 5-18-95 EPA 200.7 0.1
Iron as Fe (Diss), mg/l	0.035	JO 5-18-95 EPA 200.7 0.01
Magnesium as Mg (Diss), mg/l	190	JO 5-18-95 EPA 200.7 0.1
Potassium as K (Diss), mg/l	7.04	JO 5-18-95 EPA 200.7 0.1
Sodium as Na (Diss), mg/l	362	JO 5-18-95 EPA 200.7 0.1
Manganese as Mn (T), mg/l	0.016	JO 5-24-95 EPA 200.7 001
Cation, meq/l	39.85	Calculation
Anion, meq/l	44.29	Calculation

Approved By: Joe Workman

801 262 7299 PHONE
801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905

DATE: 5-31-95

TO: JBR Consultants
8160 So. Highland Dr. STE A-4
Sandy, Utah 84093

SAMPLE ID: Lab #U026791
PROJECT: Hidden Valley Coal Mine: IVY-2
DATE SAMPLED: 5-16-95 @ 1130 by Karla Knoop
DATE SUBMITTED: 5-17-95

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE RUN BY/ANALYZED/METHOD/MDL
Oil & Grease, mg/l	<5	BL 5-30-95 EPA 413.1 5.0
TDS, mg/l	2,930	SB 5-17-95 EPA 160.1 5.0
SS, ml/l	<2	SB 5-17-95 EPA 160.5 2.0
TSS, mg/l	22	SB 5-17-95 EPA 160.2 5.0
pH Units	7.68	RG 5-17-95 EPA 150.1 0-14
Conductivity, umhos/cm	3,290	RG 5-23-95 EPA 120.1 5.0
Hardness as $CaCO_3$, mg/l	1,300	RG 5-23-95 EPA 130.2 5.0
Acidity as $CaCO_3$, mg/l	<10	RG 5-23-95 EPA 305.1 10
Chloride as Cl, mg/l	166	RG 5-18-95 EPA 325.3 1.0
Sulfate as SO_4, mg/l	1,640	TM 5-29-95 SM 4500D 5.0
Bicarbonate as HCO_3, mg/l	342	RG 5-17-95 SM 2320B 1.0
Carbonate as CO_3, mg/l	<1	RG 5-17-95 SM 2320B 1.0
Calcium as Ca (Diss), mg/l	165	JO 5-18-95 EPA 200.7 0.1
Iron as Fe (Diss), mg/l	<.01	JO 5-18-95 EPA 200.7 0.01
Magnesium as Mg (Diss), mg/l	192	JO 5-18-95 EPA 200.7 0.1
Potassium as K (Diss), mg/l	7.14	JO 5-18-95 EPA 200.7 0.1
Sodium as Na (Diss), mg/l	366	JO 5-18-95 EPA 200.7 0.1
Manganese as Mn (T), mg/l	0.015	JO 5-24-95 EPA 200.7 001
Cation, meq/l	40.14	Calculation
Anion, meq/l	44.45	Calculation

Approved By: _____

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801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905