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STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
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355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 27, 1988

Mr. Barry G. Grosely  
Kaiser Coal Corporation  
P. O. Box 10  
Sunnyside, Utah 84539

Dear Mr. Grosely:

Re: Review of 1987 Annual Report, Kaiser Coal Corporation, Sunnyside  
Coal Mines, ACT/007/007, Folder 6, Carbon County, Utah

Attached is a technical review memorandum from Division hydrologist James R. Fricke for the Sunnyside Mine 1987 Annual Report.

As you will note, there are several incomplete data items and concerns raised. Please assure that you provide any missing data and parameters from your field records and water quality analysis by June 20, 1988.

Please feel free to contact Jim Fricke if you should have any questions on these matters.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

djh  
Attachment  
cc: J. Fricke  
0800R/54



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May 4, 1988

TO: John Whitehead, Permit Supervisor  
FROM: James R. Fricke, Reclamation Hydrologist *JRF*  
RE: Annual Report (1987) Review, Kaiser Coal Corporation,  
Sunnyside Mine, ACT/007/007, Folder #6, Carbon County, Utah

Synopsis

The operator submitted the 1987 Sunnyside Annual Report on April 4, 1988. The report contains an updated mine sequence map, climatological data, a subsidence monitoring report, vegetation data and the permit stipulation status. However, the Summarized Water Monitoring Data section is not complete. The operator has provided the water monitoring data on a diskette; the Division should commend the Sunnyside staff for cooperating on data format requests. The disk will be kept on file in the co-lead's office.

Analysis

Attached are the results of the water monitoring data review. Generally, flow data has not been provided. The Annual Report data sheets note that flow has not been calculated for the water monitoring stations. Dissolved oxygen has not been provided for any of the required stations. Monthly field parameters have not been completely provided for most stations (see attached table). Sulfate, Oil and Grease, Iron, and cation-anion balance have not been provided (see attached table for stations).

Recommendations

The operator must provide the incomplete data. If records (field notes) are available for the flow calculations and if water quality analysis are available for the noted parameters, please provide. If the operator cannot provide the requested data, the Division should initiate the proper enforcement action.

djh  
Attachment(s)  
cc: W. Malencik  
0798R/72

5/3/88 Kaiser/Sunmyside Annual Report Review

Key

- ✓ Data Complete
- X Incomplete Monthly Field Data
- ⊗ Incomplete Monthly Flow Data

- Dissolved Oxygen Incomplete - Permit requirement
- \* asterisk on data form - no explanation
- Inaccurate flow or water level

Station  
I. D.

Monthly  
Mon.  
Field Param.

1/4 ly Full  
Water Qual.  
(Perennial)

Monthly Mon  
Full suite  
(Ephemeral)

⊗ Operator should  
amend plan.

Perennial

J F M A M J J A S O N D

GT-1

X X X ⊗ X ⊗ X X X  
←—————→

GT-2

X X X ⊗ X ⊗ X X X  
←—————→

GT-3

X X X ⊗ X ⊗ X X X  
←—————→

GT-4

X X X ⊗ X ⊗ X X X  
←—————→

CRB

⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗  
←—————→

CRS

⊗ ⊗ ⊗ ⊗ ⊗ ⊗ X should have samp. Iron according to - Didn't receive analysis  
←—————→ Amendment for 1 mo - had sampled  
at CRB again.

ICE-1

X X ⊗ ⊗ X ⊗ X X ⊗  
←—————→

Ephemeral

WC-1

X X

Missing 3 data ⊗  
43 quart  
Oil & Grease

Operational

BC-1

✓ ✓

POC-1

Dry —————→

NPDES - Parameters

Parameter ID	Month
014	005
013	006
011	007
012	008
001	009
003	010

Monthly Monitoring  
J F M A M J J A S O N D

← DRY →

Parameter ID	J	F	M	A	M	J	J	A	S	O	N	D
002			X	X						X	X	X
004						X	X		X	X	X	

July Water qual.

\* Missing Sulfate for Sep & Oct.

\* C-A balance not calc for Jul, Sep, Oct.

Ground-Water Operational Schedule

Location	J	F	M	A	M	J	J	A	S	O	N	D
In-Mine boreholes								⊗			⊗	
Manhattan												
Twins shaft						■	⊗				⊗	
18 <sup>th</sup> Left Inside #1 Mine							⊗				⊗	
19 <sup>th</sup> Left Inside #1 Mine												
Manhattan Dips Sump										⊗		⊗
Pole Canyon Shaft						⊗	▲				▲	
15 <sup>th</sup> Right Sump							▲				▲	
No. 1 Slope Sump			✓			✓		✓			✓	
12 <sup>th</sup> Right - #2 mine						■				⊗		⊗
No. 3 Slope Sump										⊗		⊗
Water Canyon Sump										⊗		⊗

Missing 3rd Quarter Data  
area was flooded in August - what about Jul + Sep.

Missing Cond & Iron

Missing Iron

Missing pH, Cond Iron

J F M A M J J A S O N D

Dry  $\longrightarrow$

PAC-1

Operational

ND C-1

✓

—  
springs

WR-1

✓

WR-2

✓

Groundwater Baseline

PC-1

Flow recorded as  
2-3 gpm - is this an  
estimate?

Wells

86-1

Missing 1/4 of data

86-2

missing 1/4 of data

NPDES

NPDES

'015

X  
Missing Flow  
for Jan.