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21 April 1992

Pamela Grubaugh-Littig  
Permit Supervisor  
Utah Division of Oil Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**

APR 22 1992

DIVISION OF  
OIL GAS & MINING

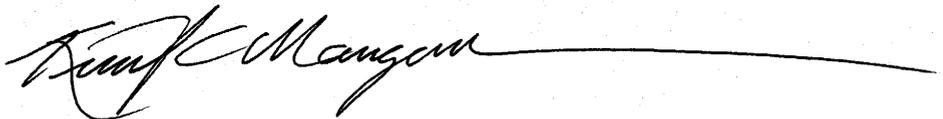
Dear Pamela:,

Re: SBC-10, Co-Op Mining Company, Bear Canyon Mine, Emery  
County, Utah

Enclosed are four copies of pages 7-38, 7-42 and 7-42A. These pages were submitted on 9 March 1992 with page 7-42 revised 6 April 1992. Division approval was given in a letter dated 13 April 1992.

I have not been regularly receiving copies of correspondence. I understood that we had an agreement concerning this issue. Please notify me if the Division has changed its policy.

Thank you,



Kimly C. Mangum, P.E.

enclosure(s)

cc: Co-Op Mining Co.

sources encountered until there is data to meet the two yr, four samples per annum requirement. New significant occurrences within the present permit area will be promptly included in the sampling program, as specified by state requirements.

Existing monitoring stations are shown on Plates 7-1 and 7-1A and listed below.

1. Under Ground Seep*	-	SBC-1
2. Portal Well**	-	SBC-2
3. Creek Well	-	SBC-3
4. Huntington Spring	-	SBC-4
5. Birch Spring	-	SBC-5
6. COP Development Spring	-	SBC-6
7. Sump #3***	-	SBC-9
8. Sump #4****	-	SBC-10

\* SBC-1 dried up in early 1988, and monitoring was discontinued.

\*\* SBC-2 dry from 1987. Caved in, lost (2) quarters and relocated in 1991.

\*\*\* Sump #1 (SBC-7) and #2 (SBC-8) dried up and discontinued in 1990.

\*\*\*\* Sump #4 flow first measured Dec. 1991. Monitoring initiated Jan 1992.

Monthly sampling parameter for each of the existing monitoring stations is included in Tables 7.1-8 and 7.1-9 for 1989 through 1995.

Temporary Drill Hole Seals. Within 30 days of completion, drill holes utilized for groundwater monitoring will be sealed in a nonpermanent fashion by installing PVC surface casing with a threaded cap for access.

Table 7.1-9 Water Monitoring Matrix 1992 thru 1995

1992

Location	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Upper Bear Creek BC-1		oper.			oper.	field	field	oper.	field	oper.		
Lower Bear Creek BC-2		oper.			oper.	field	field	oper.	field	oper.		
Rt Fork Bear Cr. BC-3		oper.			oper.	field	field	oper.	field	oper.		
Creek Well SBC-3		oper.			oper.			oper.		oper.		
Huntington Spr. <sup>3,4</sup> SBC-4	base.	base.	base.	base.	base.			base.		base.		
Birch Spring <sup>3,4</sup> SBC-5	base.	base.	base.	base.	base.			base.		base.		
Co-Op Dev Spring SBC-6		oper.			oper.			oper.		oper.		
1st N. Bleeder #42 SBC-9		oper.			oper.			oper.		oper.		
2nd E Bleeder #3 N SBC-10	base.	base.	base.		base.			base.		base.		

- Notes:
1. See Tables 7.1-7 and 7.2-5 for listing of water quality monitoring parameters.
  2. oper. = operational  
base. = baseline
  3. Monitoring parameters to be assessed in 1992.
  4. SBC-4 and SBC-5 shall also be tested for oil and grease.

Table 7.1-9 Water Monitoring Matrix 1992 thru 1995(cont)

1993 thru 1995

Location	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Upper Bear Creek BC-1		oper.			oper.	field	field	oper.	field	oper.		(3)
Lower Bear Creek BC-2		oper.			oper.	field	field	oper.	field	oper.		(3)
Rt Fork Bear Cr. BC-3		oper.			oper.	field	field	oper.	field	oper.		(3)
Creek Well SBC-3		oper.			oper.			oper.		oper.		
Huntington Spr. (4) SBC-4		oper.			oper.			oper.		oper.		(3)
Birch Spring (4) SBC-5		oper.			oper.			oper.		oper.		(3)
Co-Op Dev Spring SBC-6		oper.			oper.			oper.		oper.		(3)
1st N. Bleeder #42 SBC-9		oper.			oper.			oper.		oper.		
2nd E Bleeder #3 N SBC-10		oper.			oper.			oper.		oper.		

- Notes:
1. See Tables 7.1-7 and 7.2-5 for listing of water quality monitoring parameters.
  2. oper. = operational  
base. = baseline
  3. Baseline parameters taken in 1995.
  4. SBC-4 and SBC-5 shall also be tested for oil and grease.