



August 12, 1987

TO: File

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Annual Hydrologic Report Review, Co-Op Mining Company, Bear Canyon Mine ACT/015/025 and Trail Canyon Mine INA/015/021, Folder #2 and #8, Emery County, Utah

Surface Water

In regards to surface water sampling, the following parameters are being sampled for operation monitoring which do not need to be done (nitrate, nitrate, SAR, and Total Alkalinity). The following parameters are not being sampled for and should be (Total Setttable Solids, Acidity).

Ground Water

The operator is required to clear up discrepancies between sampling locations and sampling designations. The following discrepancies exist:

1. Is Huntington Spring Well #6 actually Borehole WM-D?
2. Is #2 Portal Well actually Borehole WM-E?
3. What is Well #4 Creek Well?
4. The designations on the IML lab sheets do not correspond to the designations in the Mine Plan or even the Annual Report (i.e., Spring Well, W-6, Hunt Spring).

It appears that Spring Well lab sheets and others indicate that the operator has collected baseline data and is currently collecting operational data. The following parameters do not need to be collected for operational monitoring: Total Suspended Solids, Nitrate and Nitrate as "N", SAR, and Total Alkalinity. A list of which sites are being sampled for either baseline or operational parameter must be completed for clarity.

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The frequency of sampling does not agree with the permit or the requirements of the Division's guidelines (see UMC 817.52, Bear Canyon Permit). As the current Annual Report was submitted, it is impossible to accurately ascertain what data applies to what without a key explaining what designation means what (i.e., is W-6 actually WM-E?).

As a requirement of the Bear Canyon Permit under UMC 817.52, the operator is requested to submit mine sump water levels, as well as supply a yearly mine inflow survey. Neither of these items have been supplied in the annual report.

The operator has committed to collecting samples of Birch Spring but has not included any data or an explanation of why no data has been collected in the annual report.

The operator should also attempt to explain or identify any trends which may exist in the data through graphical exhibits, etc. A schedule showing what sources have completed their baseline sampling requirements and are in operational or postmining monitoring phase would be helpful in determining compliance.

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