

Incoming 0150005

0093

From: Mark Reynolds <mreynolds@etv.net>
To: Steve Christensen <stevechristensen@utah.gov>
Date: 12/15/2006 2:50:34 PM
Subject: Bear Federal Lease

Steve,
OK, hopefully I got it right this time.

Mark Reynolds (PE)
Environmental Engineer
C. W. Mining Company
P. O. Box 300
Huntington, Ut 84528
435-687-5777

CC: Wayne Hedberg <waynehedberg@utah.gov>, Dale Harber <dharber@fs.fed.us>, Karl M Boyer <kboyer@fs.fed.us>

Table 7-12 Ground Water Sampling

	Baseline Monitoring	Operational Monitoring	Post-mining Monitoring
Type of Sampling site	Springs, In-Mine Flows, Boreholes, Observation Wells	Springs, In-Mine Flows, Boreholes, Observation Wells	Springs, Observation Wells, Mine discharge points
Field Measurements and Parameters (Table 7.1-7)	Water levels and/or flow and water quality	Water levels and/or flow and water quality	Water levels and/or flow and water quality
Sample Frequency Each site	<u>Quarterly</u> Adequate to describe seasonal variation. <u>Monthly</u> , recommended for more accurate description of seasonal variation.	<u>Quarterly</u> samples springs and wells; In-mine flows <u>at initial inter-ception, quarterly after 1st 30 days until diminished</u> . From sumps and/or mine discharge points <u>quarterly or as required by UPDES</u> .	<u>Quarterly</u> based on potential impact; or <u>once per annum</u> (spring sampling at low flow).
Sampling Duration	Three to five years (one complete year of data before submission of PAP) <u>Prior to mining in the area</u> .	<u>Every year</u> until two years after surface reclamation activities have ceased. <u>Sites will be monitored 4 times a year.</u>	Until termination of bonding.
Type of Data Collected and Reported	Wells and Boreholes: Water quality, water level of flow logs, collar elevation; ground elevations; screened interval; format on where completed; depth. Springs Water quality, location, and flow.	Wells and boreholes: Water quality, water level or flow. Springs Flow and water quality with one sample taken at low flow.	Wells and Boreholes Water quality, water level or flow. Springs Flow, water quality with one sample taken at low flow. <u>Phase I:</u> Whether pollution of surface and subsurface water is occurring, the probability of future occurrence, and estimated cost of abatement. <u>Phase II:</u> After revegetation has been established and contributing suspended solids to streamflow or runoff outside the permit area is not excess of the requirements set by UCA 40-10-17(j) of the Act and by R645-301-751. <u>Phase III:</u> Until reclamation requirements of the Act and the permit are fully met.
Comments	Springs and seeps should be measured from source at high and low flow periods.	During the year preceding re-permitting. Springs one water quality sample at low flow for baseline parameters. Other sites, one sample for baseline parameter.	