

4.8.5 Operational and Postmine Monitoring

The following section contains the proposed monitoring for surface and ground water at Trapper during mining. Map M52 shows the locations of the monitoring sites. The post-mine monitoring program will be similar to the operational monitoring program. Some adjustments in the operational monitoring program are expected by the time it becomes a post- mine program.

4.8.5.1 Surface Water Monitoring

Trapper's surface water monitoring schedule and parameter list can be found on Tables 4.8-11 and 4.8-12, respectively.

A surface water monitoring program should be designed to accomplish two goals. First, to establish the baseline effluent parameter levels prior to mining disturbance. By regulation, these levels are the criteria which must be met by an operator prior to removal of control structures and release of bond. Second, baseline effluent parameter levels are necessary for comparing against operational water quality in order to measure mining related impacts.

To achieve the above goals, flow recording devices (either continuous or instantaneous) are used along with grab samples for TSS and SS. Samples are taken monthly. Other parameters as described in Lists A-1, A-3 and A-4 (List A-2 is no longer sampled) of Table 4.8-12 are sampled at the frequency specified in Table 4.8-11.

Total iron, TSS, SS, TDS and/or conductivity, pH, oil and grease and flow are the surface water parameters. These parameters are in conformance with our Colorado wastewater discharge permit CO-0032115.

When there is a discharge from the last sediment dam in a drainage, the discharge will be sampled as specified in accordance with Trapper Mine's Colorado Wastewater Discharge Permits (see Map M52 for location of monitoring sites). Monitoring sites are moved downstream slightly when additional downstream settling reservoirs are added. The flow at the time of sample collection in a gulch will also be recorded. The Colorado Water Quality Control Division will be notified orally within 24 hours and within five days by written report or on quarterly DMR's after receiving the water quality results from the laboratory if values exceed the discharge limits.