MP-1.3 Equipment List

Mining equipment that will potentially be used at the mine site is listed in Table MP-1. The listed equipment is typical for this type of operation, but may not be the actual equipment utilized for operations. Full-time equipment is generally left on-site for most of the year, but may be removed from the site as mining conditions dictate. Portable equipment is used to process the aggregate, and is on-site temporarily to produce the required amount of aggregate or finished product.

Ancillary equipment includes a fuel tank and used-oil storage. Equipment will be added, repaired or replaced throughout the mine operation life as required by stripping, mining, and aggregate-processing operations, as well as for specific project needs.

Table MP-1
Equipment List

Equipment	Quantity
On-Site, Full-Time Equipment	
980 Cat Loader	1
Company utility truck	1
Water truck	1
Water pump	1
Portable, Temporary (As-Needed) Equipment	
988 Cat Loader	3
D9 L Cat Dozer	1
627 Cat Scraper	2
Cat 1500 kw Gen-Set	1
Onan 77 kw Gen-Set	1
Portable Generator	1
Cedar Rapids 3054 Jaw Crusher	1
Simon-Nordberg HP300SX Cone Crusher	1
Simon-Nordberg 5100 Cone Crusher	1
JCI 8x20 Dual Screen	1
Deister 8x24 Triple Deck Screen	1
Asphalt Batch Plant	1
Concrete Batch Plant	1
Cat 350 Excavator or equivalent [1]	1

[1] Used only for maximum resource recovery. May be modified to extend reach capability.

B-5 Demolition

The existing fences around the permit area are associated with land-owner boundaries and grazing activities, and will remain. The access road on the northern portion of the permit area will remain per land-owner preference. All other items related to the mining operation (mine office, truck scale, crushers, screeners, hot plant, concrete plant, generators, fuel tank and waste-oil tank) are portable and will be charged to their next project location per company policy. There is therefore no cost associated with this reclamation task.

B-6 Removal of Monitoring Structures

Four groundwater monitoring wells will be abandoned using procedures referenced in Appendix 7 of Guideline 8. Data from Appendix L are used to estimate the costs in Table ADJ-4-1 for this reclamation task. A fifth monitoring well in the SW4SW4 of Section 6 well will remain for stock use, which is permitted by the land owner through the State Engineer's Office.

B-7 Scarification of Compacted Surfaces

All disturbed areas will be scarified prior to top-soiling and seeding. These areas comprise the total disturbed area of 20.1 acres.

B-8 Topsoil Redistribution

Topsoil will be redistributed on all areas that have been stripped of topsoil, including the LMO and the first-year mining area. Topsoil will be redistributed at a depth of 15 inches with 627 Caterpillar scrapers, redistributing topsoil no more than 1,000 feet. Data from Appendix C are used to estimate the costs in Table ADJ-4-1 for this reclamation task.

B-9 Revegetation of Disturbed Areas

Revegetation will consist of seedbed preparation and the purchase and application of stubble mulch and permanent seed. Revegetation will follow the procedures and use the recommended seed types specified in the permit. Appendix Q is used to estimate the costs in Table ADJ-4-1 for this reclamation task.

B-10 Reclamation and Bond Liability Status

Reclamation has not yet begun at Eastfork Ranch Pit. This bond calculation covers reclamation for all mining operations that have occurred to date, including prior Limited Mining Operations, and assumes that the first year of mining will have been completed as specified in the Reclamation Plan. The breakdown of land status after the planned first year of mining will be:

Permit Area	335.3 acres
Undisturbed Area	314.5 acres
Disturbed Area	20.8 acres
Reclaimed Area	0 acres

B-11 Exploration Drilling

Exploration drilling is not applicable to Eastfork Ranch Pit.

seeding will allow a relatively large area in the pit bottom that can be seeded specifically for grazing, where hayland vegetation will predominate, but also where sage brush can re-establish on a volunteer basis.

MP-1.5.4 Cultural Resources

According to the Class III intensive cultural resource survey completed for this application (Appendix D3), there are no cultural resources that warrant protection from the planned mining operation. The ditches that runs through the permit were identified as historic elements within the permit area, but are managed as surface water rights adjudicated to the land. Per landowner request, the Banes No. 1 Ditch (see Figure MP-1) will remain operational during and after mining, but the Hittle Enlargement of the Jorgensen will be removed.

MP-1.5.5 Other Resources

There are no known oil or gas reserves in the vicinity of the permit. The access road into the permit that runs along the northern portion of the permit area will be maintained through the life of mine and left as a post-mining feature per land-owner preference. There is no existing occupied dwelling, home, public building, school, church, community or institutional building, park or cemetery within 300 feet of the affected area boundary of the mine.

MP-1.6 Mine Facilities, Construction Methods and Schedule

Mine facilities discussed in this section are shown in Figure MP-1. Figures MP-2 and MP-3 illustrate the topsoil and mining sequences, respectively.

MP-1.6.1 Buildings, Processing Plants and Other Facilities

A modular building will be located near the eastern end of the mining access road when expansion of the LMO begins. This building will serve as the mine office and truck scale load-out area for material sales. The scale and mine office are currently in a favorable location for exiting the permit area, but they may be relocated as mining progresses. A potential location for the office and scale is on the western side of the permit where the access road exits the permit to the west.

Aggregate processing equipment (Table MP-1) is portable and will be utilized on-site as needed to crush and screen aggregate. In addition, the aggregate may be further processed into concrete or asphalt, equipment for which is also portable and will also be utilized on-site as project needs require. This equipment is expected to be staged near active mining areas and will therefore move as mining progresses.

Diesel fuel will be stored near the truck scale in a steel, above-ground storage tank (AST) with a capacity of up to 20,000 gallons, and used oil will be stored nearby in a steel, 500-gallon AST (Figure MP-1). Containment berms will be constructed around both ASTs to contain 150 percent of their capacity, and the area within the berms (inclusive of the berms themselves) will be covered with a synthetic liner to prevent leaking fuel or oil from contaminating the underlying soil. For further details concerning storage of petroleum products, reference the Spill Prevention Control and Countermeasure Plan (Addendum MP-A).