Table 2.6-1: Comparison of Predicted Environmental Impacts

Impacts of Operation	No-Action Alternative	Preferred Alternative	Process Alternatives	
			Alternate Lixiviant Chemistry	Alternate Waste Management
Land Surface Impacts	None	Minimal temporary impacts in wellfield areas; Wellfield 1 = approximately 23 acres under pattern; Wellfield 2 = approximately 34 acres under pattern; Significant surface and subsurface disturbance confined to a portion of the Central Plant site = approximately 6 acres (ER section 4.1).	Same as Preferred Alternative.	Same as Preferred Alternative. *Potential additional impacts* from land application of treated waste water and construction of evaporation pond alternatives.
Land Use Impacts	None	Loss of agricultural production (livestock grazing) in the impacted area (estimated 63 acres) for duration of project (ER Section 4.1).	Same as Preferred Alternative.	Same as Preferred Alternative plus additional land use impact from installation of evaporation ponds and/or land application areas.
Transportation Impacts	None	Minimal impact on current traffic levels (ER Section 4.2).	Same as Preferred Alternative.	Additional transportation impacts for mechanical or solar evaporation (10 trucks per week) and chemical precipitation/RO (43 trucks per week).
Geology and Soil Impacts	None	No geological impacts. Minimal temporary soil impacts in disturbance areas (estimated 63 acres) from wind and water erosion (ER Section 4.3).	Same as Preferred Alternative.	Same as Preferred Alternative. Potential additional impacts to soils from land application of treated waste water.
Surface Water Impacts	None	None (ER Section 4.4.1)	None	None

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Table 2.6-1: Comparison of Predicted Environmental Impacts

Impacts of Operation	No-Action Alternative	Preferred Alternative	Process Alternatives	
			Alternate Lixiviant Chemistry	Alternate Waste Management
Groundwater Impacts	None	Consumption of mining zone groundwater at an average rate of 105 GPM for control of mining solutions and restoration (ER Section 4.4.2)	Same as Preferred Alternative. Increased difficulty with groundwater restoration and stabilization resulting in increased water consumption for ammonia based lixiviants.	Same as Preferred Alternative.
Ecological Impacts	None	No substantive impairment of ecological stability or diminishing of biological diversity (ER Section 4.5).	Same as Preferred Alternative.	Same as Preferred Alternative.
Air Quality Impacts	None	Additional total dust emissions of 15.5 tons per year due to vehicle traffic on gravel roads (ER Section 4.6).	Same as Preferred Alternative.	Same as Preferred Alternative.
Noise Impacts	None	Barely perceptible increase over background noise levels in the area. (ER Section 4.7) Common equipment noise levels during the construction phase range from 70 to 101 dB at 50 feet distance. Using a 100 dB sound level at the Central Plant and a drop ratio of 6 dB per doubled distance, a maximum noise level of 80 dB at 4500 feet distance from the Central Plant. (See Technical Report Section 7.1.5).	Same as Preferred Alternative.	Same as Preferred Alternative.

Table 2.6-1: Comparison of Predicted Environmental Impacts

Impacts of Operation	No-Action Alternative	Preferred Alternative	Process Alternatives	
			Alternate Lixiviant Chemistry	Alternate Waste Management
Historic and Cultural Impacts	None	None	None	None
Visual/Scenic Impacts	None	Moderate impact; noticeable minor industrial component (ER Section 4.9).	Same as Preferred Alternative.	Same as Preferred Alternative plus additional visual and scenic impacts from installation of evaporation ponds and/or land application areas.
Socioeconomic Impacts	Loss of positive economic impact of $28.8M and 601 temporary and permanent jobs to Campbell County and the surrounding area	Annual direct economic impact of $28.8M and 601 temporary and permanent jobs to local area (ER Section 4.10)	Same as Preferred Alternative.	Same as Preferred Alternative.
Nonradiological Health Impacts	None	None	None	None
Radiological Health Impacts	None	Estimated maximum dose from radon gas released at Moore Ranch at the project boundary is 1.5 mrem/yr or 1.5% of the public dose limit (ER Section 4.12.2).	Same as Preferred Alternative.	Additional occupational exposure for handling concentrated brine byproduct material for disposal.

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