Table 1: Lamprecht Restoration Table Values Compared to Third Set Stabilization Sample Results

Parameter	Baseline (3/22/1991 permit)	Amended RTV (6/24/1992 permit)	7/21/1994 Restoration Stabilization Sampling Report (Third Set Average)	Justification from the state for why the restoration table value was amended/why groundwater issue could be closed
Bicarbonate	300 mg/L	1000 mg/L	587 mg/L	
Sulfate	523 mg/L	600 mg/L	381 mg/L	Third set average is below baseline.
Chloride	574 mg/L	600 mg/L	412 mg/L	Third set average is below baseline.
Conductivity	3221 umhos	3800 umhos	2902 umhos	Third set average is below baseline.
Molybdenum	0.144 mg/L	5 mg/L	1.26 mg/L	
Uranium	0.757 mg/L	5 mg/L	0.622 mg/L	Third set average is below baseline.
Ammonia	0.635 mg/L	200 mg/L	89 mg/L	
Third Stabilization Set average exceeds the amended restoration table values				
Radium-226	218.3 pCi/L	218.3 pCi/L	257 pCi/L	The average from all 3 stability sets is 221.3 pCi/L (still slightly above RTV). Naturally occurring levels of radium-226 in baseline wells greatly exceed the DWS.
Manganese	0.121 mg/L	0.121 mg/L	0.157 mg/L	Manganese is only slightly higher than the restoration table value. Many of the baseline well concentrations average under the RTV. 3 of the 19 baseline wells tend to elevate the overall average of the third sample set with values of 0.48, 0.41, and 0.27 mg/L.
Iron	0.332 mg/L	0.332 mg/L	2.425 mg/L	Does not materially change the water use. In 1994, the state of New Mexico had a domestic water supply standard of 1 mg/L for iron. The average from all 3 stability sets is 0.95 mg/L.
Arsenic	0.013 mg/L	0.013 mg/L	0.074 mg/L	The third stability set average for arsenic is above the 1994 drinking water standard of 0.05 mg/L. The average from all 3 stability sets is 0.053 mg/L (just barely exceeding the DWS). The current average arsenic level does not change the water use class in that the pre-mining water quality could not meet the drinking water standard for sulfate, chloride, TDS, iron, manganese, selenium and radium-226. The current average arsenic level (0.053

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				mg/L) meets standards set for livestock and other agricultural uses such as irrigation.
Alkalinity	276 mg/L	276 mg/L	481 mg/L	Alkalinity is associated with the calcium environment of the Lamprecht mine formation. Alkalinity does not have a Primary Drinking Water Standard. In terms of agriculture, elevated alkalinity could damage plants by changing the proportion of sodium to magnesium and calcium in the soils. Generally, in order for this to occur, alkalinity would have to be in excess of 600 mg/L. The current level does not change the water use classification.

Notes:

DWS Drinking Water Standard

MCL Maximum Contaminant Level

RTV Restoration Table Value