Interoffice Memorandum

To: Clayton Wein

From: Rob Zuber RDZ

Date: August 29, 2019

Subject: Deserado TR-72 SEDCAD and water quality compliance review for PAR

I have reviewed a portion of the TR-72 submittal from Blue Mountain Energy, namely the Hydrology of RP-A and the proposed pond (Illustration 59) and the analysis of using Red Wash Reservoir #2 as a point of compliance (Illustration 60). I have the following points for your preliminary adequacy letter.

Hydrology for RP-A and Pond (Illustration 59)

- Blue Mountain Energy needs to provide to the Division a map or figure that shows the channels included in the SEDCAD model. The "schematic" in Illustration 59 appears to be missing this information.
- On Map 162A, please provide more detail on the spillway. Will a riser pipe be attached to the pipes that pass through the dam?
- What size are the spillway pipes that pass through the dam? Are they 30" diameter (as it says on Map 162A) or 36" (as it says in report text)?

Analysis of Red Wash Reservoir #2 (Illustration 60)

- Blue Mountain Energy should include a discussion in Illustration 60 of the context of using this reservoir as a point of compliance and include a discussion of how this relates to requirements in their permit with the Colorado Water Quality Control Division or to other water quality requirements.
- On Page 3, in the third paragraph, the following sentence requires more explanation: "Based on experience with other sediment ponds at the base of refuse piles, Red Wash Reservoir will likely remain dry." This sentence is unclear to the Division for two reasons. First, will Red Wash be at the base of a refuse pile? Second, are you stating that refuse piles at Deserado produce less runoff than typical rangeland?
- Page 7 is not clear. It appears that the polygons represent different soil units, but the numbers for each type are not readable. Please provide a clearer version of this map.
- Illustration 59 indicates that the 10-year discharge from the RP-A pond is 22.59 cfs, but in Illustration 60 the inflow to Red Wash Reservoir #2 is only 6.59 cfs (10-year event). Is it your assumption that the flow from the upper pond (below the RP-A) will infiltrate between the two ponds?
- On Map 163, the Rip Rap Chart indicates a Spillway Slope with a slope of 33%. Please show this location on the plan view.