WATER QUALITY MEMORANDUM
Utah Coal Regulatory Program

September 26, 2018

TO: Internal File

THRU: Steve Christensen, Permit Supervisor

FROM: Keenan Storrar, Hydrologist

RE: First Quarter 2018 Water Monitoring, PacifiCorp, Deer Creek Mine. C/015/0018, Task ID #5704

The Deer Creek Mine monitoring plan is in Appendix A-1 of Volume 9 of the MRP. The mine closed January 2015 and is transitioning towards reclamation. The Permittee has installed a pipeline from the Rilda Right portals down to the raw water holding pond for Huntington Power Plant. All gravity drainage mine-water will be routed in this pipe from the Rilda Right portals to the Power Plant.

1. Were data submitted for all of the MRP required sites? YES ☒ NO ☐

2. Were all required parameters reported for each site? YES ☒ NO ☐

Springs YES ☒ NO ☐

Streams YES ☒ NO ☐

Wells YES ☒ NO ☐

UPDES YES ☒ NO ☐

3. Were any irregularities found in the data down gradient of mine workings?

Springs YES ☐ NO ☒

Monitoring at the NEWUSSD meter has had some recent changes, which accounts for the large number of parameters two standard deviations from the mean. Pipe blockages and inaccessible sampling locations have resulted in the sampling location to change. Thus, the chemistry at the new sampling location is different from the past sampling location accounting for the large variations from the mean. Water quality at this location will likely continue to outside of the mean.

Streams YES ☐ NO ☒

Wells YES ☐ NO ☒

UPDES YES ☐ NO ☒

Mine water discharge at the Deer Creek portals UPDES outfall has ceased. Mine pools are developing in the Southern Deer Creek workings and the Mill Fork area workings. Once these areas fill to capacity they will gravity discharge at the Deer Creek and Rilda Right portals, respectively.

Wells YES ☐ NO ☒

4. On what date does the MRP require a five-year resampling of baseline water data.

Baseline analyses were performed in 2001, 2006, 2011, and 2016, repeating every 5 years. The next baseline analyses will be conducted in 2021.

5. Based on your review, what further actions, if any, do you recommend?

All water quantity volumes and quality parameters are within reasonable ranges. No further action is recommended at this time.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? YES ☐ NO ☒

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data (datum)?

NA.