

# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

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December 19, 2018

TO: Internal File

THRU: Steve Christensen, Permit Supervisor 

FROM: Keenan Storrar, Hydrologist 

RE: Second Quarter 2018 Water Monitoring, PacifiCorp, Deer Creek Mine.  
C/015/0018, Task ID #5749

The Deer Creek Mine monitoring plan is in Volume 9 Appendix A-1 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.

The water monitoring program was significantly reduced in Fall 2018 after three years post-mining monitoring under Task #5770. Pre- and post-mining flow rates of springs and streams and groundwater depths were compared against the regional climatic trends to determine if mining had impacted these resources. After analyzing each site selected for removal from the water monitoring program it appears mining activities have not impacted the hydrologic balance.

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
  - 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.