

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

March 25, 2019

TO: Internal File

THRU: Steve Christensen, Permit Supervisor 

FROM: Keenan Storrar, Hydrologist 

RE: Third Quarter 2018 Water Monitoring, PacifiCorp, Deer Creek Mine.
C/015/0018, Task ID #5788

The Deer Creek Mine monitoring plan is in Volume 9 Appendix A-1 of the MRP. The mine closed January 2015 and actively reclaiming. 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.

The Trail Mountain wildfire burned much of East Mountain overlying the Deer Creek workings in 2018. Many of the water monitoring sites on the mountain were inaccessible during the third quarter of 2018 because of the active fire. The Permittee did not monitor mostly all of the spring sites and a few of the stream and well sites during this quarter due to these extenuating circumstances.

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|----|--|---|--|
| 1. | Were data submitted for all of the MRP required sites? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 2. | Were all required parameters reported for each site? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| | Springs | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| | Streams | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| | Wells | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| | UPDES | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 3. | Were any irregularities found in the data down gradient of mine workings? | | |
| | Springs | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| | Streams | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |

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.