

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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December 4, 2013

TO: Internal File

THRU: Daron Haddock, Coal Program Manager

FROM: Steve Christensen, Environmental Scientist 

RE: 2013 Second Quarter Water Monitoring (WQ13-2), Nevada Electric Investment Corporation, Wellington Preparation Plant, C/007/0012, Task ID #4360

The Wellington Preparation Plant is currently in temporary cessation. Active coal mining or reclamation operations are not occurring. Water-monitoring requirements are in Sections 7.23 and 7.31.2 through 7.31.22, and Tables 7.24-2 and 7.24-5 of the MRP.

**1. On what date does the MRP require a five-year re-sampling of baseline water data.**

Baseline parameters are collected in the year preceding permit renewal. The next scheduled permit renewal for the Wellington Preparation Plant is November 30, 2014. Historically, baseline sampling has occurred during the 1<sup>st</sup> quarter of the permit renewal year. As a result, baseline monitoring should be conducted during the 1<sup>st</sup> quarter of 2014.

**2. Were data submitted for all of the MRP required sites?**

**Streams and Ponds**

YES  NO

The surface water monitoring plan requires sampling of nine surface water sites (SW-1, SW-2, SW-2A, SW-3, SW-4, SW-5, SW-6, SW-7 and SW-8). The required water quality parameters are provided in Table 7.24.5 with the exception of SW-2. Flow is the only data collected at monitoring site SW-2. Surface water monitoring sites are no longer monitored for BTEX-N. The reduction in monitoring at these sites was the result of inactivity at the site (Task ID #4253). Four of the sites are retention ponds (SW-5, SW-6, SW-7 and SW-8).

Water quality data was obtained from three sites: SW-1, SW-2 and SW-2A. The remaining monitoring locations reported no flow.

**Wells** YES  NO

The Permittee is required to analyze samples quarterly from 16 well sites. GW-12 is no longer required for monitoring (since 1<sup>st</sup> quarter 2012. Mid-term). GW-1, GW-3, GW-4, GW-6, GW-7, GW-8, GW-9, GW-9B, GW-10, GW-13, GW-14, GW-15A, GW-15B, GW-16, and GW-17 for the parameters in Table 7.24-2, and to measure depth only at GW-2.

Monitoring well GW-12 is no longer an actively monitored site. It was dropped during the most recent mid-term review (Task ID #4253). It was last sampled during the 4<sup>th</sup> quarter of 2012.

Data was submitted for all of the required monitoring well sites. Wells GW-3, GW-13 and GW-17 did not have enough water to collect a sample (i.e. they were reported dry).

**UPDES** YES  NO

Six UPDES permitted outfalls at the Wellington Preparation Plant are monitored monthly: #UTG040010-003, 004, 005, 006, 007, and 008. None of the UPDES sites reported flow this quarter.

**3. Were all required parameters reported for each site?**

**Streams and Ponds** YES  NO

**Wells** YES  NO

**UPDES** YES  NO

**4. Were any irregularities found in the data?**

**Streams and Ponds** YES  NO

**Wells** YES  NO

The following table summarizes the parameters that were outside of at least two standard deviations for this quarter:

Well	Parameter	Concentration in mg/L	Std Deviation	Mean mg/L
GW-1	D-Potassium	7.3	2.17	5.62

GW-15B	Cat-Ani Diff	2.96	2.13	1.45
GW-7	Cat-Ani Diff	4.15	2.16	1.83
GW-8	D-Potassium	25.12	3.55	13.21
GW-9	Bicarbonate	626	2.21	677.43

**UPDES**

YES  NO

Not Applicable. No discharges were reported from any of the UPDES monitoring locations.

**5. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data?**

YES  NO

**6. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements?**

YES  NO

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

NA

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

None.