



**Date:** October 20, 2023

**To:** Amber Gibson, DRMS

**From:** Patrick Lennberg, DRMS

**RE: New Elk Mine; C-1981-012, Permit Renewal RN-8 – Review Memo**

On September 1, 2023, I was requested to review portions of the New Elk Mine permit renewal application, RN-8, for compliance with several Rules. Below is a list of Rules that I was requested to review and a summary of my findings.

**Rule 2.04.3: General Requirements: Site Description and Land Use Information (Groundwater)**

No adequacy issues noted. The information required by this rule is discussed on pages 2.04-1 through 4 (revised TR68 and 76), Map 4, and Table 1.

**Rule 2.04.4: Cultural and Historic Resource Information (Groundwater)**

No adequacy issues noted. The information required by this rule is discussed on page 2.04-4 through 8a (TR56, 68, and 76), Figure 1a, and Exhibit 7.

**Rule 2.04.5: General Description of Hydrology and Geology**

No adequacy issues noted. The information required by this rule is discussed on pages 2.04-8a through 9, Figure 1, and Maps 5, 6 and 8 (TR76 and MR99).

**Rule 2.04.6: Geology Description (Groundwater)**

No adequacy issues noted. The information required by this rule is discussed on pages 2.04-9 through 17, Figure 1, Tables 4a-4c, Table 6 and Maps 5, 6a and 7.

**Rule 2.04.7: Hydrology Description (Groundwater)**

The information required by this rule (Rule 2.04.7(1)) is discussed on pages 2.04-17 through 25, Maps 8 and 20, Tables 7 – 11, and Exhibits 8 and 11.



An item for consideration, the last permitted well inventory of wells within a one-mile radius of the permit boundary was completed in December 2010. It may be of value to update the groundwater user inventory Table 10, Table 11 and Map 8. Although mine activities are predicted not to have an effect on any surrounding wells.

No adequacy issues noted. The information required by this rule (Rule 2.04.7(3)) is discussed on page 2.04-33 and Exhibit 8.

**Rule 2.05.6(3): Mitigation of the Impacts of Mining Operations, Protection of hydrological balance**

No adequacy issues noted. The information required by this rule is discussed on pages 71 through 110, Maps 13, 23, and 26, Tables 26a 26b, 26c, 27, 28, 30, 31, and 33, and Figures 18 and 22, and Exhibit 8.

**Rule 4.05.8: Acid-Forming and Toxic-Forming Spoil**

No adequacy issues noted. The information required by this rule is discussed on page 2.04-11a, and Exhibit 8.

**Rule 4.05.10: Underground Mine Entry and Access Discharges**

No adequacy issues noted. The information required by this rule is discussed in Section 2.05.

**Rule 4.05.11: Ground Water Protection**

No adequacy issues noted. The information required by this rule is discussed in Sections 2.04 and 2.05.

**Rule 4.05.12: Protection of Ground Water Recharge Capacity**

No adequacy issues noted. The information required by this rule is discussed in Sections 2.04 and 2.05.

**Rule 4.05.13(1): Ground Water Monitoring**

No adequacy issues noted. The information required by this rule is discussed in Sections 2.04 and 2.05.

If you need additional information or have any questions, please let me know.

Sincerely,

A handwritten signature in blue ink, appearing to read "Patrick LG".

Amber Gibson  
New Elk Mine (C1981-012) RN-8  
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Patrick Lennberg  
Environmental Protection Specialist

cc: Jared Ebert, DRMS