

January 9, 2015

Ron Linton, Project Manager  
US Nuclear Regulatory Commission  
Decommissioning and Uranium Recovery Licensing Directorate  
Division of Waste Management and Environmental Protection  
Office of Federal and State Materials  
Environmental Management Programs  
11545 Rockville Pike  
Rockville, MD 20852-2738

**RE: Willow Creek ISR Project- Permit to Mine No. 478  
Notification that Monitor Wells 7MW27**

Dear Ron Linton:

In accordance with WDEQ-LQD Rules and Regulations Chapter 11, Section 12.(a) (ii) this letter serves as the written notification of the confirmed excursion status for Monitor Wells 7MW27.

**Monitor Well 7MW27**

A routine biweekly sample of Well 7MW27 slightly exceeded two of the three Upper Control Limits (UCLs) on December 29, 2014. A second confirmation sample was taken on December 31, 2014. This sample slightly exceeded two of the three UCLs, which confirmed the excursion status. In accordance with permit requirements the sampling frequency has been increased to weekly, and will continue until 3 consecutive weekly samples indicate that no more than one UCL is exceeded.

The Corrective Actions have been implemented by turning off injection wells near the monitor well. Those wells include 7I287 (480 feet NE of 7M27), 7I267(453 feet SE of 7ME27), 7I295(373 feet SE of 7MW27), 7I296(359 feet SE of 7MW27), 7I297(453 feet SE of 7MW27), 7I272(555 feet SE of 7MW27), 7I273(643 feet SE of 7MW27), 7I274(591 feet SE of 7MW27). Additionally 7I290 and 7I261 have been cut down to 5 GPM. Three recovery wells were down for maintenance near the 7MW27 well, (7P124, 7P123, and 7P125) those wells have been brought back online. The overall corrective actions have resulted in modular 7-5 or the area around MW727 being over recovered by 29 GPM. The effects of this action will be monitored and modified as required to correct the excursion as quickly as possible.

**Table 1: Summary of Monitor Well Results  
MINE UNIT 7  
MONITOR WELL 7MW-27**

SAMPLE DATE	CHLORIDE (UCL 20.8 mg/l)	CONDUCTIVITY (UCL 118 µmhos/cm)	ALKALINITY (UCL 1950 mg/l)	pH	WATER LEVEL	U <sub>3</sub> O <sub>8</sub> ppm
10/06/2014	5.3	77.0	1111	8.1	4638.5	
10/21/2014	5.4	80.9	1109	8.1	4635.3	
11/03/2014	5.6	79.5	1103	8.3	4632.4	
11/17/2014	6.0	84.4	1069	8.1	4634.6	
12/01/2014	11.1	153.3	1143	8.1	4638.3	
12/17/2014	20.5	344.3	1476	7.1	4617.3	
12/29/2014	22.8	340.7	1362	7.0	4625.9	
12/31/2014	21.8	348.2	1549	7.3	4608.1	< 0.4
01/02/2015	23.2	340.7	1516	7.2	4607.8	< 0.4
01/05/2015	22.7	354.5	1551	7.5	4611.0	< 0.4
01/07/2015	21.5	338.8	1522	7.5	4605.4	< 0.4

Table 1 provides the analytical data for the samples which confirmed the excursion status of Monitor Well 7MW27.

Please contact me if you have any questions regarding this email.

Sincerely,

  
Ryan Schierman  
RSO

cc: Scott Schierman  
Rick Kukura