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Subject: Notice of Concentrations Exceeding AEMP High Action Level
Date: June 28, 2024 4:25:01 PM

Dzē tanj hqjzj, Everyone,

This message is in regards to the SNP surface water samples collected at the Rayrock site on June 9th 2024. This is the only sampling event so far in 2024 so we do not have seasonal trends to report yet.

Remediation activities began prior to the sampling. These activities include blasting and construction, however, discharge into Sherman Lake from the water treatment plant is not expected to begin until later in the summer.

Based on the screening of the four biweekly SNP locations sampled (1663-1, 1663-3, 1663-4, & 1663-5), the following data was flagged for exceeding the High Action Levels set out in the AEMP Design Plan Response Framework V 1.1 (undergoing updates - unapproved).

Lake	SNP Station ID	Parameter	Result	Low Action Level	Medium Action Level	High Action Level	Previous 2024 Result	Next Scheduled Sample	Duplicate Sample Collected	Notes
Sherman Lake B	1663-1	Sulphate (SO4)	4.8 mg/L	2.84 mg/L	3.1 mg/L	3.62 mg/L	No	June 26/27 2024	No	Sulphate result exceeds the High Action Level.
Beta Lake	1663-3	Total Molybdenum	0.0014 mg/L	0.0010 mg/L	0.0011 mg/L	0.0013 mg/L	No	June 27/27 2024	No	Total Molybdenum result is marginally above the High Action Level and is an order of magnitude lower than the CCME AL guideline.

The sulphate at the other locations sampled included the upgradient locations Beta Lake (7.2 mg/L) and Alpha Bay (2.5 mg/L). While the upgradient lake (Beta Lake) had a higher sulphate concentration the intermediate upgradient location in Alpha Bay did not. Both the Beta Lake and Alpha Lake sulphate concentrations fell within the range of historical AEMP samples at their respective locations, but the sample from Sherman Lake B does not.

This notice is part of a “High Action Level” response that requires notification of the Board and Inspector. We will also investigate what site activities have taken place in the vicinity of 1663-1 to determine if the remediation activities may have influenced the result.

Overall, these results represent a measurable change with respect to baseline, but they do not represent concentrations that lead to biological effects. We will continue to monitor these locations both during the monthly AEMP sampling (June program currently underway on site) and the biweekly SNP sampling program. As results come in over the next two weeks, we will be able to confirm if levels are above pre-remediation levels and if there may be a trend, as per the AEMP best practice steps in the Low Action response (which also applies to Moderate and High responses). Therefore, we will continue to report on results and provide updates as the data comes in. An AEMP Response Plan will be formulated should results from the late June 2024 Sampling indicate continuing elevated concentrations.

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