



Regarding Approval RA17015A
N1/2 23-31-18 W4M

Leak Detection Groundwater Monitoring Requirements

The purpose of this statement is to revise the groundwater monitoring requirements in Approval RA17015A. Condition # 1 of Approval RA17015A, reads

Earthen Manure Storage (EMS) Leakage Detection System Reporting

An Indicator report must be done every 12 months and submitted to the NRCB by November 30 each year. The Indicator report must include laboratory analysis of the indicator parameters outlined in the most recent NRCB Technical Guideline 'Leak Detection and CFO's'. The reports are to be submitted to the NRCB until such time as the NRCB adjusts the monitoring frequency, test parameters and/or report contents.

The NRCB has re-assessed the groundwater monitoring requirements, using results from environmental risk screenings conducted on October 20, 2008 and in April 2017 for this facility. The results of the risk screening exercises indicated the EMS poses a low risk to surface and groundwater. The assessment was based on the following site specific parameters: the EMS has an AOPA approved liner; the protective layer between the bottom of the EMS and the uppermost groundwater resource has a thickness of about 7.5 metres and is of a fine texture. In addition, the wells near the EMS are located upslope from the facility and more than 370 metres away from the EMS.

Based on the risk screening result, the NRCB has determined that the groundwater monitoring requirements for this facility should be amended as follows:

Monitoring Frequency

Groundwater monitoring requirements are suspended.

Monitoring Well Test Parameters

Not Applicable, as monitoring is suspended.

Monitoring Wells to be used for Monitoring

Not Applicable, as monitoring is suspended.

Note that the installation of new water wells in the area surrounding the CFO may impact the potential risk to groundwater at a facility and therefore may require monitoring requirements to be revised. To ensure that monitoring requirements are appropriate, CFO operators should inform the NRCB of any new water wells that are being developed or installed in the area surrounding their facility.

The integrity of all monitoring wells must be maintained. Any damaged or destroyed wells must be reported to the NRCB and may be required to be repaired or replaced.

These monitoring requirements become effective on the date of this letter and supersede any previously issued monitoring requirements at this facility.

September 3, 2021

(Original Signed)
Francisco Echegaray, P.Ag.
Approval Officer