

Regarding Approval RA20043  
SE 14-40-28 W4M

### **Leakage Detection Monitoring Requirements**

The purpose of this statement is to revise the groundwater monitoring requirements in Approval RA20043. Operating Condition #8(b) of Approval RA20043 reads:

***“The owner/operator shall conduct leak detection monitoring for the liquid manure storage facility as prescribed and authorized in writing, and as amended from time to time where appropriate, by the NRCB.”***

The NRCB has re-assessed the groundwater monitoring requirements, using results from environmental risk screenings conducted on March 9, 2009 and March 2, 2017 for this facility.

Based on the risk screening results, the NRCB has determined that the groundwater monitoring requirements for the earthen liquid manure storage (EMS) 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

The results of the risk screening exercises indicated that this synthetically lined (60 ml HDPE) facility, which had been constructed under the supervision of a professional engineer, has a low potential to impact the uppermost groundwater resource. The uppermost groundwater resource is 9.8 meters below grade with the facility constructed 4 meters below grade. There is approximately 4 meters of naturally occurring clay material located from 1.5 to 5.5 meters below grade which results in 1.5 meters of protective layer below the bottom of the facility. The materials used and construction of this facility meets current AOPA standards.

Note that the installation of new water wells in the area surrounding the CFO may impact the potential risk to groundwater quality 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.

December 4, 2020

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