

**All perchlorate samples must be sterile filtered at time of collection per sample collection requirements in reference methods used for perchlorate analysis. See details below for perchlorate sample collection requirements:**

1) Perchlorate samples must be sterile filtered using the following: sterile 20-ml syringes (Fisher Cat. No. 14-817-33 or equivalent), sterile surfactant free cellulose acetate 0.2um filters (Fisher Cat. No. 09-754-13 or equivalent) and sterile sample containers (125-mL sterile high-density polyethylene (HDPE) bottle, Fisher Cat. No. N411-0125 or equivalent).

- Each new lot of filters must be tested using a laboratory reagent blank (LRB) and a laboratory fortified blank (LFB) fortified at the MRL to ensure that they do not introduce interferences or retain perchlorate
- Each sampling event will include a field reagent blank (FRB) that consist of reagent water collected from the laboratory. The FRB is filtered in the field and analyzed with the samples. If the FRB is a non-detect for perchlorate, it may serve as the LRB provided the FRB is analyzed first in the analytical sequence.

2) Perchlorate sample collection process:

- Remove a sterile syringe from its package and draw up approximately 25 mL of the bulk sample.
- Remove a sterile syringe filter from its package without touching the exit Luer connection.
- Connect the filter to the syringe, depress the syringe plunger gently and discard the first three (3) to five (5) mL.
- Open a sterile container using aseptic technique and using gentle pressure, pass the sample through the filter into the container.
- Do not let the syringe or filter make contact with the sample container. Each sample must contain ample headspace in the sample container.
- Following filtration, seal the sample container tightly. Syringes and filters are single use items and must be discarded after each sample.
- Chill the sample immediately following filtration to four (4) degrees +/- two (2) degrees C for transport to the laboratory.

3) Samples that are collected and stored following the process above may be stored for 28 days.