

Hexavalent Chromium (CR+6) Sample Filtration Guide

Requirements: Sample filtration must occur within 15 minutes of sample collection.

Items needed:



1 - 60 ml
plastic bottle



Unpreserved
sample



1-5 ml
syringe



3-0.45 µm
filters



Nitrile
gloves

Directions:

1. Collect sample.
2. Place and open the 60 ml plastic container on a level surface.
3. Insert 5 ml syringe into the sample and pull back the plunger to fill the syringe with sample.
4. Attach a 0.45 micron filter to the end of the syringe.
5. Push down on the plunger to allow a portion of sample to rinse the filter.
6. Place the syringe with the attached filter over the 60 ml plastic container and push the plunger until no sample remains in the syringe.
7. If the filter becomes clogged during filtration and doesn't allow for any more sample to pass through, use a new filter to continue filtering.
8. Repeat the above steps until the container is at minimum 1/3rd way filled or approximately 20 ml (4-6 full syringes) have been filtered.
9. If sample bottles are not pre-preserved with Ammonium Sulfate, return samples to the laboratory within 24 hours of sampling to ensure proper preservation.



Note: Each new sample location must be filtered using a new syringe and filters to avoid contamination.