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Free Cyanide Field Preservation

~DRINKING WATER SAMPLES ONLY~
(Removal of Sulfide and Chlorine)

This kit contains:

- 125ml plastic bottle, containing ascorbic acid (0.075g)
- 1-60ml syringe
- 2-filters
- 1-2oz amber bottle containing 0.125g of lead carbonate
- 1-2oz amber bottle containing NaOH (3 pellets)

1) Collect 125mls of sample in the 125ml plastic bottle, containing ascorbic acid (0.075g). Cap the bottle and shake to dissolve the ascorbic acid.

2) Within 15 minutes of collection, filter the sample through a 0.45micron filter.

   - Remove the plunger from a 60ml syringe; attach the filter to the end.
   - Fill the syringe to the top from the back with sample from the 125ml plastic and then replace the plunger and push the sample through the filter into the 2oz amber bottle that is labeled 1g Lead carbonate.
   - Continue to filter the sample until the amber bottle is full. **Save this filter**.

3) Shake the 2 oz amber bottle containing the sample and the lead carbonate (Note: not all the lead carbonate will dissolve).

4) Immediately filter the sample containing the lead carbonate through a new filter using the same technique as in step 2 except push the sample into the 2oz amber that is labeled NaOH. **Discard this filter**.

5) Label bottle with location and cool sample to 4°C.

6) **Don't forget to include the first filter when shipping the sample back to the lab**.
   - Return only the final 2oz sample container preserved with NaOH and the first filter.

NOTE: These same instructions are used for the collection of drinking water samples being analyzed for Available Cyanide.