

Analysis	Min Volume	Bottle Type	Preservation	Holding Time
<b>Inorganics</b>				
Biological Oxygen Demand (BOD)	1000 ml	P/G	Cool 0-6 °C	48 Hours
Carbon Dioxide	200 ml	P/G	Cool 0-6 °C	<b>Immediate</b>
Dissolved Oxygen (DO)	100 ml	G	Cool 0-6 °C	<b>Immediate</b>
Hexavalent Chromium	500 ml	P/G	Cool 0-6 °C	24 Hours
Nitrate-N	50 ml	P/G	Cool 0-6 °C	48 Hours
Nitrite-N	50 ml	P/G	Cool 0-6 °C	48 Hours
Orthophosphate	100 ml	P/G	Cool 0-6 °C	48 Hours
pH	50 ml	P/G	Cool 0-6 °C	<b>Immediate</b>
Surfactants (MBAS)	500 ml	P/G	Cool 0-6 °C	48 Hours
Total Residual Chlorine	200 ml	P/G	Cool 0-6 °C	<b>Immediate</b>
Turbidity	100 ml	P/G	Cool 0-6 °C	48 Hours
Soils for any of the above	4 or 8 oz.*	Jar	Cool 0-6 °C	
* More sample may be required to perform STLC and TCLP				
<b>Metals</b>				
Total Metals	250 ml	P	HNO3	6 months
Dissolved Metals	250 ml	P	HNO3*	6 months
Mercury	100 ml	P	HNO3	28 days
TCLP/STLC/SPLP Metals	2 x 1000 ml	P	Cool 0-6 °C	6 months
Soils for any of the above	4 or 8 oz.	Jar	Cool 0-6 °C	6 months
<b>Organics</b>				
Gasoline (GRO)	3 x 40 ml	G - Vials	HCl	14 Days
Deisel (DRO)	500 ml	G	HCl	7/40
Carbon Chain	500 ml	G	HCl	7/40
Organochlorine Pesticides	1000 ml	G	Cool 0-6 °C	7/40
PCBs	1000 ml	G	Cool 0-6 °C	7/40
Organophosphorus Pesticides	1000 ml	G	Cool 0-6 °C	7/40
Herbicides	1000 ml	G	Cool 0-6 °C	7/40
Volatiles	3 x 40 ml	G - Vials	HCl	14 Days
Semi-Volatiles	1000 ml	G	Cool 0-6 °C	7/40
PAHs	1000 ml	G	Cool 0-6 °C	7/40
Soils for any of the above	8 or 16 oz.	Jar	Cool 0-6 °C	14 days

## Sampling Tips



Volatiles for soils using a 5035 Kits:

2 - 40 ml vials with Bisulfate Soln, 1 - vial with MeOH (amber), and 1 - empty vial for dry weight correction. The two Bisulfate vials are for normal range VOCs. The MeOH vial is for high VOC concentrations. To ensure sample integrity firmly tighten the vial lids so that no dirt is trapped between the vial and cap. Leaking vials lead to sample contamination and inaccurate results.



Volatiles for Aqueous Samples:

3 Vials per sample that should be filled to form a reverse meniscus to ensure no air bubbles. Be careful not to over fill, this will wash out the preservative. Vials filled with this procedure should not have any air bubbles. Air bubbles can cause inaccurate results.

Volatile Kits for Aqueous Samples:

All kits should have a trip blank - 2 vials with lab water, enough vials for 3 x sample, Temperature Blank - small plastic bottle in cooler, COCs, cooler with enough room to add ice, packing material if shipping.

Labeling and COCs

When labeling samples use water proof pens, Sharpies. The lab will provide labels.  
 Fill out the COC with all sample information, date/time/ID  
 Include all contact information for whom is to receive the report.  
 Remember to indicate if the results are needed faster than 5 days.  
 COCs can be prepared by the lab with advanced notice.

Packing Samples to ship to lab

Sample kits from the lab will come with bubble bags to protect glass bottles and extra bubble wrap for packing.  
 Line the bottom of the cooler with a sheet of bubble wrap.  
 important if shipping, transport companies will not ship if cooler is leaking). Use a garbage bag to help prevent this.  
 Then place bottles into bubble bags and place in the cooler.  
 Use Wet ice, best for keeping temperature, and fill cooler.  
 Add extra bubble wrap to prevent shifting and tie the garbage bag.  
 Place the COC into a zip-lock bag and place in cooler.