



# Exact Scientific Services

www.exactscientific.com

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## Water Sample Guide

Test/Analyte	Bottle Type	Volume Needed	Hold Time^	Pre-Preserved	Notes
503 Metals	Plastic	1L	6 months	-	
Acid Compounds	Amber Glass	1L	7 days	-	
Alkalinity	Plastic	100mL	14 days	-	Limit headspace. Ideally in own bottle.
Anions (NO <sub>3</sub> , NO <sub>2</sub> , Cl, F, SO <sub>4</sub> , etc.)	Plastic	>10mL	Nitrate/Nitrite: 48 hours Fluoride: 7 days Others: 28 days	-	
Asbestos	Plastic (Asbestos Free)	2 x 1L	48 hours	-	Bottles should be filled only to 800mL
Base/Neutral Compounds	-	-	-	-	(See Semivolatiles by EPA 625)
BOD (Biological Oxygen Demand)	Plastic	500mL	48 hours	-	
Bromate	Glass	250mL	28 days	-	Preserve upon receipt due to short exp.
CBOD (Carbonaceous BOD)	Plastic	1L	48 hours	-	
COD (Chemical Oxygen Demand)	Plastic	100mL	28 days	-	
Color	Amber Glass "color" bottle	50mL	24 hours	-	Bottle pre-rinsed with HCl
Conductivity	Plastic	50mL	28 days	-	
Chlorine (Residual)	Amber Glass Vials	50mL	ASAP	-	Limit headspace.
Cyanide	Amber Plastic	100mL	14 days	NaOH*	<b>*If chlorinated: no preservative Give unchlorinated if unsure</b>
Dinoseb	-	-	-	-	(See Herbicides)
EDB (Soil Fumigants)	Clear Glass Vials	2 x 40mL + Trip Blank	14 days	Sodium Thiosulfate	Trip Blank Required but not reported or charged
Glyphosate	Amber Glass	2 x 40mL	14 days	Sodium Thiosulfate	Investigative can use clear vials, compliance must use amber vials
Gross Alpha	Plastic	1L	6 months	-	



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Test/Analyte	Bottle Type	Volume Needed	Hold Time^	Pre-Preserved	Notes
<b>HAA (Haloacetic Acids)</b>	Amber Glass Vials	2 x 60mL	14 days	Ammonium Chloride	
<b>Hardness</b>	Plastic	100mL	6 months	-	
<b>Herbicides (EPA515) (Dinoseb is included)</b>	Amber Glass	250mL	14 days	Sodium Thiosulfate	
<b>Hexavalent Chromium</b>	Plastic	2 x 250mL	28 days	-	Special kit
<b>IOC (Complete Inorganics)</b>	Plastic, Amber Plastic, and Glass	2 x 1L, 1 x 250mL CN <sup>-</sup> , 1 x 250mL color	48 hours	(See Cyanide)	<b>*If chlorinated: no preservative Give unchlorinated if unsure</b>
<b>Isobutanol (Solvent Residue &lt;USP Class 3)</b>	Glass	250mL	-	-	No headspace
<b>Mercury, Cold Vapor</b>	Amber Glass Vials	2 x 40mL	6 months	HCL	
<b>Mercury, Low Level</b>	Plastic	3 x 250mL (Special Kit)	6 months	HCl/BrCl	(1 field blank if for compliance, 1 bottle to pour field blank into, and 1 for the sample)
<b>Metals/Minerals (except Mercury)</b>	Plastic	>100mL	6 months	-	
<b>Nutrients (NH<sub>3</sub>/TKN/T. Phos)</b>	Plastic	100mL	28 days	-	
<b>NWTPH-Dx (Diesel/Lube Oil)</b>	Amber Glass	2 x 500mL	14 days	HCl	
<b>NWTPH-Gx (Gasoline)</b>	Amber Glass Vials	2 x 40mL	14 days	HCl	
<b>Oil and Grease (HEM, FOG)</b>	Amber Glass	2 x 1L	28 days*	HCl	*If not preserved, hold time 4 hours
<b>PCBs</b>	Amber Glass	1L	7 days	-	
<b>Pesticides (EPA525&amp;505)</b>	Amber Glass Bottle and Vials	1L & 2 x 40mL	14 days	Sodium Sulfite/Sodium Thiosulfate	
<b>PFAS (PFOA, PFOS)</b>	Plastic	*Special order kit from Anatek*	28 days	Tris	
<b>pH</b>	Plastic	20mL*	~15 minutes	-	*Limit headspace



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Phenolics, Total	Amber Glass	1L	28 days	H2SO4	
<b>Priority Pollutant Metals</b>					1L Plastic + Low Level Mercury Kit
<b>Priority Pollutant VOC</b>	Amber Glass Vials	3 x 40mL	14 days	HCl	No trip blank
<b>Radium 226</b>	Plastic	1L	6 months	-	
<b>Radium 228</b>	Plastic	1L	6 months	-	
<b>Semivolatiles by EPA625</b>	Amber Glass	1L	7 days	-	
<b>Silica</b>	Plastic	50mL	6 months	-	
<b>Surfactants</b>	Plastic	500mL	48 hours	-	
<b>TAH (Total Aromatic Hydrocarbons)</b>	-	-	-	-	(See VOC by EPA624, same method different compounds, only 2 x 40mL)
<b>TAqH (Total Aqueous Hydrocarbons)</b>	-	-	-	-	(See Semivolatiles by EPA625, same method different compounds)
<b>TDS (Total Dissolved Solids)</b>	Plastic	100mL	7 days	-	
<b>TOC (Total Organic Carbon)</b>	Amber Glass Vials	2 x 40mL	28 days	HCl	
<b>Total Solids</b>	Plastic	100mL	7 days	-	
<b>TSS (Total Suspended Solids)</b>	Plastic	500mL	7 days	-	
<b>TTHM (Trihalomethanes)</b>	Clear Glass Vials	2 x 40mL	14 days	Sodium Thiosulfate	
<b>Turbidity</b>	Plastic	20mL	48 hours	-	
<b>VOC (Volatile Organic Compounds) *DW Only*</b>	Clear Glass Vials	2 x 40mL & Field Blank	14 days	Acetic Acid	
<b>VOC (Volatile Organic Compounds) by EPA 624 *WW Only*</b>	Amber Glass Vials	3 x 40mL + Trip Blank	14 days	HCl	
<b>Soil Samples for Dx &amp; Gx</b>	Short Glass Jar w/ Grey Lid	1 x jar	-	-	