



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

Matrix	Method	Sample Size Container	Preservation	Holding time	Standard Method/SW	EPA
<b>Adsorbable Organic Halides</b>						
w/ww		100mL, G	Cool, ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , HNO <sub>3</sub> to pH<2	Hold at least 3 days, but not more than 6 months		
<b>Acetaldehyde by HPLC</b>						
w/ww		250mL, G	4 °C	3/3 days	SW-846 8315A	
s/sw		4 oz. G	4 °C	14/3/3 days	SW-846 8315A	
<b>Acetic Acid by IC</b>						
w/ww		2x40mL, G	4 °C	N/A	IHM	
<b>Acetone by GC</b>						
w/ww		2x40mL, G	4 °C, HCl to pH<2 (No HS)	14 days	SW- 846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW- 846 8015B	
<b>Acetone by GC/MS</b>						
w/ww		2x40mL, G	4 °C, HCl to pH<2 (No HS)	14 days	SW- 846 8260B	
s/sw		4 oz. G	4 °C	14 days	SW- 846 8260B	
<b>Acid Extractable</b>						
w/ww		1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 8270C	EPA 625
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8270C	
<b>Acidity</b>						
w/ww		100mL P/FP/G	Cool, ≤6 °C	14 days	SM 2310B	
s/sw		4 oz. G	4 °C	14 days		EPA 305.1
<b>3,4 Acrolein &amp; Acrylonitrile</b>						
w/ww		100MI G/FP-lined septum	Cool, ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , pH 4-5	14 days		EPA 624/1624B
<b>Acrolein &amp; Acrylonitrile by HPLC</b>						
w/ww		2x40mL, G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8030	EPA 603
<b>Air (Mini Canister)</b>						
Air		Canister	N/A	N/A		TO-15
<b>Air (Summa Canister)</b>						
Air		Canister	N/A	N/A		TO-15
<b>Air (Thermal Desorption Tube)</b>						
Air		Canister	N/A	N/A		TO-17



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<b>Alcohols (5)</b>						
w/ww		2 x 40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	
<b>Aldehydes (Group Profile, &amp; Compounds)</b>						
Air			IMP 225-36, IT 225-22			EPA TO-5
<b>Aldehydes (Individual Compounds)</b>						
Air			IMP 225-36, IT 225-22			EPA TO-5
<b>Alkalinity</b>						
w/ww		100mL P/FP/G	Cool, ≤6 °C	14 days	SM -2320B	EPA 310.1
<b>1-5 Alpha</b>						
w/ww		100mL P/FP/G	HNO <sub>3</sub> to pH<2	6 months	SM-7110B	
<b>Ammonia</b>						
w/ww		100mL P/FP/G	Cool, ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500-NH <sub>3</sub>	EPA 350.3
s/sw		4 oz. G	4 °C	28 days		EPA 350.3
<b>Anion, Individual/Scan</b>						
w/ww		150mL P/G	4 °C	28 d/48 hr. NO <sub>2</sub> /NO <sub>3</sub> , PO <sub>4</sub>		EPA 300
s/sw		4 oz. G	4 °C	28 d/48 hr. NO <sub>2</sub> /NO <sub>3</sub> , PO <sub>4</sub>		EPA 300
<b>Appendix IX, Chlorinated Herbicides</b>						
w/ww		1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 8151A	
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8151A	
<b>Appendix IX, Cyanide</b>						
w/ww		500mL P/G	4 °C, NaOH to pH>12	14 days	SW-846 9012A	
s/sw		4 oz. G	4 °C	14 days	SW-846 9012A	
<b>Appendix IX, Metals</b>						
w/ww		1000mL P	HNO <sub>3</sub> to pH<2	6 months (Hg 28 days)	SW-846 6010C/6020	
s/sw		4 oz. G	4 °C	6 months (Hg 28 days)	SW-846 6010C/6020	
<b>Appendix IX, Organochlorine Pesticides</b>						
w/ww	GC	1000mL AG	Cool, ≤6 °C, pH 5-9	7/40 days	SM-6630 B/C	



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s/sw		4 oz. G	4 °C	14/40 days	SW-846 8081A/8082	
<b>Appendix IX, Organophosphorus Pesticides</b>						
w/ww	GC/MS	1000mL AG	Cool, ≤6 °C, pH 5-9	7/40 days	SM-6410B	
	HPLC	1000mL AG	Cool, ≤6 °C, pH 5-9	7/40 days	SM-6640B	
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8141A	
<b>Asbestos Bulk ID/Point Count</b>						
Solids		Double plastic Ba	N/A	N/A		EPA 600/R- 93/116
<b>Asbestos Fiber Count</b>						
Air		SKC 225-32	N/A	N/A		NOISH 7400
<b>Ash</b>						
w/ww		150mL P/G	N/A	N/A		ASTM D482-95
s/sw		4 oz. G	N/A	N/A		ASTM D482-95
<b>Aqueous samples: Field and lab preservation</b>						
w/ww	G	100mL G	Cool, ≤6 °C, , 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ,	1 year		
<b>Alkylated phenols</b>						
w/ww		100mL G	Cool, ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28/40 days		
<b>Base/Neutral Extractables</b>						
w/ww		1000mL	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 2870C	EPA 625
s/sw		4 oz. G	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 2870C	
<b>BOD(Biological Oxygen Demand)</b>						
w/ww		100mL P/FP/G	Cool, ≤6 °C	48 hours	SM-5210B	
<b>Bromide</b>						
w/ww	Electrode	100mL P/FP/G	N/A	28 days		ASTM 1246-05
w/ww	Ion chromatography	100mL P/FP/G	N/A	28 days	SM-4110 B/C/D	EPA300.0 /300.1-1
w/ww	CIE/UV	100mL P/FP/G	N/A	28 days	SM-4140 B	
<b>BTEX/MTBE</b>						
w/ww	GC/MS	2 x 40mL G	4 °C, HCl to pH<2 (No HS), Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SW-846 8021B	EPA 625
s/sw		4 oz. G	4 °C	14 days	SW-846 8021B	



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<b>BTU(British thermal units)</b>						
w/ww		100mL or g P/G	N/A	N/A		ASTM D-240
s/sw		4 oz. G	N/A	N/A		ASTM D-240
<b>Boron</b>						
w/ww	Colorimetric	100mL P/FP/Quartz	HNO <sub>3</sub> to pH<2	6 months	SM 4500-B	
w/ww	ICP/AES	100mL P/FP/Quartz	HNO <sub>3</sub> to pH<2	6 months	SM-3120B	EPA 200.5
w/ww	ICP/MS	100mL P/FP/Quartz	HNO <sub>3</sub> to pH<2	6 months	SM-3125B	EPA 200.8
w/ww	DCP	100mL P/FP/Quartz	HNO <sub>3</sub> to pH<2	6 months		ASTM D4190-08
<b>7,38 Benzidines</b>						
w/ww		100mL G/FP-lined cap				
<b>Carbon(Organic)</b>						
w/ww	Combustion	100mL P/FP/G	Cool, ≤6 °C, HCl , H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> to pH<2	28 days	SM-5310B	EPA 415.2
w/ww	Heated Persulfate or UV persulfate oxidation	100mL P/FP/G	Cool, ≤6 °C, HCl , H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> to pH<2	28 days	SM-5310 C/D	
<b>Carbonaceous Biochemical Oxygen Demand</b>						
w/ww	Dissolved oxygen Depletion with nitrification inhibitor	100mL P/FP/G	Cool, ≤6 °C	48 hours	SM-5210B	
<b>Chloride</b>						
w/ww	Titrimetric: silver nitrate	100mL P/FP/G	N/A	28 days	SM-4500 Cl <sup>-</sup> B	
w/ww	Mercuric nitrate	100mL P/FP/G	N/A	28 days	SM-4500 Cl <sup>-</sup> C	
w/ww	Colorimetric: manual	100mL P/FP/G	N/A	28 days		I-1187-85
w/ww	Automated (Ferricyanide)	100mL P/FP/G	N/A	28 days	SM-4500 Cl <sup>-</sup> E	
w/ww	Potentiometric titration	100mL P/FP/G	N/A	28 days	SM-4500 Cl <sup>-</sup> D	
w/ww	Ion Selective Electrode	100mL P/FP/G	N/A	28 days		ASTM D512-04(C)
w/ww	Ion chromatography	100mL P/FP/G	N/A	28 days	SM 4110 B/C	EPA 300.0 /300.1-1
w/ww	CIE/UV	100mL P/FP/G	N/A	28 days	SM 4140 B	
s/sw		4 oz. G		28 days		EPA 300
<b>Chlorinated Volatiles</b>						
w/ww		2 x 40mL G	4 °C, HCl to pH<2 (No HS)	14 days		EPA 624



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<b>Chlorine, Residual/Free</b>						
w/ww	Amperometric direct	100mL P/G	N/A	Analyze within 15 mins	SM 4500-Cl D/E	
w/ww	Iodometric direct	100mL P/G	N/A	Analyze within 15 mins	SM 4500-Cl B	
w/ww	Back titration ether end-point	100mL P/G	N/A	Analyze within 15 mins	SM 4500-Cl C	
w/ww	DPD-FAS	100mL P/G	N/A	Analyze within 15 mins	SM 4500-Cl E	
w/ww	Spectrophotometric, DPD	100mL P/G	N/A	Analyze within 15 mins	SM 4500-Cl E	
<b>Chlorinated hydrocarbons</b>						
w/ww		100mL G/FP-lined cap	Cool, ≤6 °C	7/40 days		
<b>Chromium VI</b>						
	<b>0.45 –micron filtration followed by any of the following:</b>					
w/ww	AA chelation-extraction	100mL P/FP/G	Cool, ≤6 °C, pH=9.3-9.7	28 days	SM 3111 C	
w/ww	Ion chromatography	100mL P/FP/G	Cool, ≤6 °C, pH=9.3-9.7	28 days	SM 3500 Cr- C	EPA218.6
w/ww	Colorimetric	100mL P/FP/G	Cool, ≤6 °C, pH=9.3-9.7	28 days	SM 3500 Cr- B	
<b>Chromium, Trivalent</b>						
w/ww		250mL P/G	4 °C	24 hours	SM 3500 Cr- B	
w/ww		250mL P/G	4 °C	24 hours	SW-846 7196A	
s/sw		4 oz. G	4 °C	24 hours	SW-846 3060A	
<b>Chemical Oxygen Demand</b>						
w/ww	Titrimetric	100mL P/FP/G	Cool, ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 5220 B/C	EPA410.3
w/ww	Spectrophotometric	100mL P/FP/G	Cool, ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 5220 D	EPA410.4
<b>Color</b>						
w/ww		100mL P/FP/G	Cool, ≤6 °C	48 hours	SM 2120 B	
<b>Conductance</b>						
w/ww		100mL P/G	4 °C	28 days		EPA120.1
s/sw		4 oz. G	4 °C	28 days		EPA120.1
<b>Corrosivity, pH</b>						
w/ww		125mL P/G	N/A	N/A	SW-846 ch-7	
s/sw		4 oz. G	N/A	N/A	SW-846 ch-7	
<b>Cresols</b>						
w/ww		1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 8270C	EPA 625
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8270C	



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<b>Cyanide total or available and free</b>	Manual Distillation with MgCl <sub>2</sub> followed by any of the following:					EPA335.4
w/ww	Flow injection, gas diffusion amperometry	100mL P/FP/G	Cool, ≤6 °C, NaOH to pH>10, reducing agent if oxidizer present	14 days	SM 4500 CN <sup>-</sup> B/C	
w/ww	Titrimetric	100mL P/FP/G	Cool, ≤6 °C, NaOH to pH>10, reducing agent if oxidizer present	14 days	SM 4500 CN <sup>-</sup> D	
w/ww	Spectrophotometric	100mL P/FP/G	Cool, ≤6 °C, NaOH to pH>10, reducing agent if oxidizer present	14 days	SM 4500 CN <sup>-</sup> E	
w/ww	Ion Chromatography, Ion Selective Electrode	100mL P/FP/G	Cool, ≤6 °C, NaOH to pH>10, reducing agent if oxidizer present	14 days	SM 4500 CN <sup>-</sup> F	
s/sw		4 oz. G	4 °C	N/A	SW-846	
<b>Cryptosporidium</b>						
w/ww	Filtration/MS/FA	LDPE; field filtration	1-10 °C	96 hours		EPA 1622 /1623
<b>Coliform Total</b>						
w/ww	MPN	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9221 B	EPA132
w/ww	MF single step	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9222 B	
<b>Coliform Fecal</b>						
w/ww	MPN	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9221 C E	
w/ww	MF single step	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9222 D	
<b>Density/Specific Gravity</b>						
w/ww		250mL P/G	N/A	N/A	SM 2710F	
s/sw		4 oz. G	N/A	N/A	SM 2710F	
<b>Dissolved Oxygen</b>						
w/ww	Winkler(Azide modification)	100mL G, Bottle and Top	Fix on site and store in dark	8 hours	SM 4500-O B/C/D/E/F	
w/ww	Electrode	100mL G, Bottle and Top	Fix on site and store in dark	8 hours	SM 4500-O G	
<b>Dissolved Organic Carbon</b>						
w/ww		150mL P	4 °C	28 days		EPA415.2
<b>Drinking water primary anions</b>						
w		500mL P/G	4 °C	48 hours		EPA 300



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<b>Drinking water primary metals</b>						
w		500mL P	Cool 4 °C HNO <sub>3</sub> to pH<2	6 months(Hg 28 days)		EPA200.7/ 245.1
<b>Drinking water secondary anions( chloride and sulfate)</b>						
w		250mL P/G	4 °C	28 days		EPA 300
<b>Drinking water secondary pH</b>						
w		150mL P/G	4 °C	Immediately		EPA 150.1
<b>Drinking water secondary TDS</b>						
w		500mL P/G	4 °C	7 days		EPA 160.1
<b>Drinking water TTHM</b>						
w		2 x 40mL G	4 °C HCl to pH<2 (No HS)	14 days		EPA 524
<b>Diesel Range Organics</b>						
w/ww		1000mL AG	4 °C, HCl to pH<2	7/40 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8015B	
<b>Enterococci</b>						
w/ww	MPN	100mL PA/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours		
w/ww	MF two step/single step or plate count	100mL PA/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM-9230 C	EPA1600
<b>E.coli</b>						
w/ww	MPN	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9221B.1/F	
w/ww	Multiple tube/ Multiple well	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9223B	
w/ww	MF two step or single step	100mL P/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM 9222 B/G, SM 9213 D	
<b>Extractable Organic Halide</b>						
w/ww		2x250mL G	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , H <sub>2</sub> S <sub>2</sub> O <sub>4</sub> to pH<2	28 days	SW-846 9020B	
sw/oil/solvent		4 oz. G	4 °C	28 days	SW-846 9023	
<b>Ethanol</b>						
w/ww		2x40mL G	4 °C HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	
<b>Ethylene Glycol</b>						
w/ww		2x40mL G	4 °C HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	



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<b>Fecal Streptococci</b>						
w/ww	MPN	100mL PA/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM-9230 B	P 139
w/ww	MF or plate count	100mL PA/G	Cool, ≤10 °C, 0.0008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	8 hours	SM-9230 C	P 136
<b>Ferric Iron</b>						
Digestion followed by any of the following:						
w/ww	AA direct aspiration	125mL AG	4 °C	Immediately	SM-3111 B/C	
w/ww	AA furnace	125mL AG	4 °C	Immediately	SM-3113 B	
w/ww	ICP/AES	125mL AG	4 °C	Immediately	SM-3120 B	
w/ww	ICP/MS	125mL AG	4 °C	Immediately	SM-3125 B	
w/ww	Colorimetric	125mL AG	4 °C	Immediately	SM-3500 Fe	
w/ww	Direct current plasma	125mL AG	4 °C	Immediately		D4190-08
<b>Finger print by GC scan</b>						
s/sw		4 oz. G	N/A	N/A	SW-846 8015B	
Liquids/sw		40-500mL G	N/A	N/A	SW-846 8015B	
<b>Flash point (Ignitability)</b>						
s/sw		8 oz. G	N/A	30 days	SW-846 1010	
Liquids		500mL G	N/A	30 days	SW-846 1010	
<b>Fluoride</b>						
Manual distillation followed by any of the following:						
w/ww	Electrode, manual	100mL P	N/A	28 days	SM 4500 F <sup>-</sup> C	
w/ww	Colorimetric	100mL P	N/A	28 days	SM 4500 F <sup>-</sup> D	
w/ww	Automated complex one	100mL P	N/A	28 days	SM 4500 F <sup>-</sup> E	
w/ww	Ion chromatography	100mL P	N/A	28 days	SM 4110 B/C	
w/ww	CIE/UV	100mL P	N/A	28 days	SM 4140 B	
s/sw		4 oz. G	4 °C	28 days		EPA 300
<b>Formaldehyde</b>						
w/ww		1000mL P/G	4 °C	3/3 days	SW-846 8315A	
s/sw		4 oz. G	4 °C	143/3 days	SW-846 8315A	
<b>Formic acid by IC</b>						
w/ww		2 x40mL G	4 °C	N/A		IHM
<b>Giardia</b>						
w/ww		100mL LDPE/field filtration	1-10 °C	96 hours		EPA 1623
<b>Glycols (4)</b>						
w/ww		2 x40mL G	4 °C	7 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	





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<b>Gasoline range organics</b>						
w/ww		2 x40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	
<b>Haloacetic acids</b>						
w/ww		3 x 60mL G	4 °C, NH <sub>4</sub> Cl(No HS)	14 days		EPA 552.2
<b>Halogenated Volatiles</b>						
w/ww		2 x40mL G	4 °C, HCl to pH<2 (No HS), Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SW-846 8260B	EPA 601
s/sw		4 oz. G	4 °C	14 days	SW-846 8260B	
<b>Haloethers</b>						
w/ww		100mL G/FP-lined cap	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM 6410B	
<b>Hardness-Total</b>						
w/ww	Automated colorimetric	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		EPA 130.1
w/ww	Titrimetric	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 2340 C	
w/ww	AA direct aspiration	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 2340 B	
<b>Hazardous waste characteristics package</b>						
w/ww			4 °C	Various	SW-846	
<b>Herbicides, Chlorinated</b>						
w/ww		1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-8151A	EPA 615
s/sw		4 oz. G	4 °C	14/40 days	SW-8151A	
<b>Hexane extractable materials</b>						
w/ww (oil & grease)		1000mL G	4 °C, HCl to pH<2	28 days		EPA1664A
w/ww (TPH only)		1000mL G	4 °C, HCl to pH<2	28 days		EPA1664A
w/ww (silica gel treated)		1000mL G	4 °C, HCl to pH<2	28 days		EPA1664A
<b>Hydrogen ion(pH)</b>						
w/ww		100mL P/FP/G	N/A	Analyze within 15 mins	SM 4500 H <sup>+</sup> B	
<b>Inorganic carbon</b>						
w/ww		150mL P	4 °C	28 days		EPA 415.1
<b>Karl fisher water content</b>						
Oil		4 oz. G	4 °C	N/A	ASTM D-1744	



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

Matrix	Method	Sample Size Container	Preservation	Holding Times	Standard Method/ SW	EPA
<b>Kjeldahl &amp; Organic N</b>	Manual digestion and distillation or gas diffusion followed by any of the following:				SM 4500-N <sub>org</sub> B/C and 4500-NH <sub>3</sub> B	
w/ww	Titration	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500-NH <sub>3</sub> C	
w/ww	Nesslerization	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		D1426(08) A
w/ww	Electrode	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500-NH <sub>3</sub> D/E	
w/ww	Semi-automated phenate	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500-NH <sub>3</sub> G/H	
w/ww	Manual phenate, salicylate or other substitute phenols in Berthelot reaction based methods	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500-NH <sub>3</sub> F	
<b>Automated methods for TKN that do not require manual distillation</b>						
w/ww	Semi-automated block digester colorimetric	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 4500- N <sub>org</sub> D	
w/ww	Block digester followed by auto distillation and titration	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		
w/ww	Block digester followed by auto distillation and Nesslerization	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		
w/ww	Block digester followed by flow injection gas diffusion	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		
<b>Land application package</b>						
ww/sw		2 Vials, 2L GJ	4 °C	14/7 days	SW-846	
<b>Leachate, SPLP / TCLP extraction</b>						
sw	Non- volatile extraction	8 oz. G	4 °C	14 days	SW-846 1312	
<b>Lead</b>						
	Digestion followed by any of the following:					
w/ww	AA direct aspiration	500mL P	HNO <sub>3</sub> to pH<2	6 months	SM-3111 B/C	
w/ww	AA furnace	500mL P	HNO <sub>3</sub> to pH<2	6 months	SM-3113 B	
w/ww	STGFAA	500mL P	HNO <sub>3</sub> to pH<2	6 months		EPA 200.9
w/ww	ICP/AES	500mL P	HNO <sub>3</sub> to pH<2	6 months	SM-3120 B	
w/ww	ICP/MS	500mL P	HNO <sub>3</sub> to pH<2	6 months	SM-3125 B	
w/ww	DCP	500mL P	HNO <sub>3</sub> to pH<2	6 months		
w/ww	Voltametry	500mL P	HNO <sub>3</sub> to pH<2	6 months		D3559-08(C)
w/ww	Colorimetric	500mL P	HNO <sub>3</sub> to pH<2	6 months	SM3500-Pb B	
s/sw		4 oz. G	4 °C	6 months	SW-846 6010C/6020	



# TTI ENVIRONMENTAL LABORATORIES

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<b>Lead in paint</b>						
Paint chips		3g in P/G	N/A	6 months	SW-846 6010C	
<b>TIC's for BNA</b>						
w/ww/sw		N/A	N/A		SW-846 8270B	EPA-625
<b>TIC'S for VOC</b>						
w/ww/sw		N/A	N/A		SW-846 8260B	
<b>Mercury</b>						
w/ww	Cold vapor, manual	100mL P/FP/G	HNO <sub>3</sub> to pH<2	28 days	SM 3112B	EPA 245.1
w/ww	Cold vapor, automated	100mL P/FP/G	HNO <sub>3</sub> to pH<2	28 days		EPA 245.2
w/ww	Cold vapor atomic fluorescence spectrometry(CVAFS)	100mL FP/G and FP-lined cap	5mL/L 12 N HCl or 5mL/L BrCl	90 days		EPA 245.7
w/ww	Purge and trap	100mL FP/G and FP-lined cap	5mL/L 12 N HCl or 5mL/L BrCl	90 days	Method- 1631 E	Footnote-43
s/sw		4 oz. G	4 °C	28 days	SW-846 7470A/7471A	
<b>Metals except boron, chromium VI and mercury</b>						
w/ww		100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SW-846 6010C/6020/7471A	EPA 200.7/200.8/245.1
<b>Methanol</b>						
w/ww		2 x 40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	
<b>Mixed liquor suspended solids</b>						
w/ww		500mL P/G	4 °C	7 days		EPA 160.2
<b>Moisture</b>						
s/sw		4 oz. G	4 °C	28 days		EPA 160.3
<b>Methyl tert-butyl ether</b>						
w/ww		2 x 40mL G	4 °C, HCl to pH<2 (No HS), Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SW-846 8021B	EPA 602
s/sw		2 x 40mL G	4 °C	14 days	SW-846 8021B	
<b>Naphthalene</b>						
w/ww	GC	1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days		EPA 610
w/ww	GC/MS	1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days	SM-6410 B	
w/ww	HPLC	1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days	SM-6440 B	
<b>n-Butanol</b>						
w/ww		2 x 40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

Matrix	Method	Sample Size Container	Preservation	Holding Times	Standard Method/ SW	EPA
<b>Nitrate (as N)</b>						
w/ww	Ion chromatography	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4110 B/C	
w/ww	CIE/UV	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4140 B	
w/ww	Ion selective electrode	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4500 NO <sub>3</sub> <sup>-</sup> D	
w/ww	Colorimetric (Brucine sulfate)	100mL P/FP/G	Cool ≤6 °C	48 hours		EPA 352.1
w/ww	Nitrate-Nitrite N minus nitrite N	100mL P/FP/G	Cool ≤6 °C	48 hours		
<b>Nitrate-Nitrite(as N)</b>						
w/ww	Cadmium reduction manual	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4500 NO <sub>3</sub> <sup>-</sup> E	
w/ww	Cadmium reduction automated	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4500 NO <sub>3</sub> <sup>-</sup> F	EPA 353.2
w/ww	Automated hydrazine	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4500 NO <sub>3</sub> <sup>-</sup> H	
w/ww	Ion chromatography	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4110 B/C	
w/ww	CIE/UV	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4140 B	
<b>Nitrite(as N)</b>						
w/ww	Spectrophotometric manual	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4500 NO <sub>2</sub> <sup>-</sup> B	
w/ww	Automated(*bypass cadmium reduction)	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4500 NO <sub>3</sub> <sup>-</sup> F	
w/ww	Manual(*bypass cadmium reduction)	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4500 NO <sub>3</sub> <sup>-</sup> E	
w/ww	Ion chromatography	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4110 B/C	
s/sw	Ion chromatography	4 oz. G	4 °C	48 hours		EPA 300
w/ww	CIE/UV	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-4140 B	
<b>Nitrosamines</b>						
w/ww		100mL G/FP-lined cap	Cool ≤6 °C, store in dark, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM-6410B	
<b>Nitro aromatics and isophorone</b>						
w/ww		100mL G/FP-lined cap	Cool ≤6 °C, store in dark, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days		
<b>Oil and grease</b>						
	Hexane extractable material					
w/ww	n-hexane extraction and gravimetry	100mL G	Cool ≤6 °C, HCl H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> to pH<2	48 hours	SM-5220 B	
w/ww	Silica gel treatment and gravimetry	100mL G	Cool ≤6 °C, HCl H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> to pH<2	48 hours	SM-5220 B/F	



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

Matrix	Method	Sample Size Container	Preservation	Holding Times	Standard Method/ SW	EPA
<b>Orthophosphate as P</b>						
w/ww	Automated	100mL P/FP/G	Cool ≤6 °C	Filter within 15 mins, analyze within 48 hours	SM-4500 P-F/G	
w/ww	Manual single/two reagent	100mL P/FP/G	Cool ≤6 °C	Filter within 15 mins, analyze within 48 hours	SM-4500 P-E	
w/ww	Ion chromatography	100mL P/FP/G	Cool ≤6 °C	Filter within 15 mins, analyze within 48 hours	SM-4110 B/C	
w/ww	CIE?UV	100mL P/FP/G	Cool ≤6 °C	Filter within 15 mins, analyze within 48 hours	SM-4140 B	
<b>PAH</b>						
w/ww	GC/MS	1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 8270C	
w/ww	HPLC	1000mL AG	4 °C	7/40 days	SW-846 8310	
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8270C	
<b>PCB</b>						
w/ww	GC/MS	100mL G/FP-lined cap	Cool ≤6 °C	1 year until extraction, 1 year after	SM-6410 B	
s/sw		40mL G	4 °C	14/40 days	SW-846 3580A/8082	
<b>Percent solids</b>						
w/ww		150mL P/G	4 °C	ASAP	SM-2540 B	EPA 160.3
s/sw		4 oz. G	4 °C	ASAP	SM-2540 B	
<b>Pesticides</b>						
w/ww		100mL G/FP-lined cap	Cool ≤6 °, pH 5-9	7/40 days	SM 6630 B/C, SM 6410 B	EPA 608
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8081A	
<b>pH</b>						
w/ww		150mL P/G	4 °C	Immediately		EPA 150.1
s/sw		4 oz. G	4 °C	N/A	SW-846 9045C	
<b>Phenols (Total)</b>						
	Manual distillation followed by any of the following:				SM 5530 B	
w/ww	Colorimetric manual	100mL	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM 5530 D	
w/ww	Automated colorimetric	100mL	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		EPA 420.4
<b>Phosphorus(elemental)</b>						
w/ww	Gas-liquid chromatography	100mL G	Cool ≤6 °C	48 hours		



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322  
**Environmental Testing Service Guide**

Matrix	Method	Sample Size Container	Preservation	Holding Times	Standard Method/SW	EPA
<b>Phosphorus Total</b>	Digestion followed by any of the following:				SM 4500 P-B	
w/ww	Manual	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4500 P-E	EPA 365.3
w/ww	Automated ascorbic acid reduction	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-4500 P-F/G/H	EPA 365.1
w/ww	ICP/AES	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days	SM-3120 B	EPA 200.7
w/ww	Semi-automated block digester	100mL P/FP/G	Cool ≤6 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days		EPA 365.4
<b>Phenols</b>						
w/ww	GC	100mL G/FP-lined cap	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM-6420 B	
w/ww	GC/MS	100mL G/FP-lined cap	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM-6410 B	
<b>Polynuclear aromatic hydrocarbons</b>						
w/ww	GC/MS	100mL G/FP-lined cap	Cool ≤6 °C, store in dark 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM-6410 B	
w/ww	HPLC	100mL G/FP-lined cap	Cool ≤6 °C, store in dark 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SM-6440 B	
<b>Purgeable halocarbons</b>						
w/ww	GC	100mL G/FP-lined septum	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SM-6200 C	
w/ww	GC/MS	100mL G/FP-lined septum	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SM-6200 B	
<b>Purgeable aromatic hydrocarbons</b>						
w/ww	GC	100mL G/FP-lined septum	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , HCl to pH 2	14 days	SM-6200 C	
w/ww	GC/MS	100mL G/FP-lined septum	Cool ≤6 °C, 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , HCl to pH 2	14 days	SM-6200 C	
<b>Phthalate esters</b>						
w/ww	GC	100mL G/FP-lined cap	Cool ≤6 °C	7/40 days		EPA 606
w/ww	GC/MS	100mL G/FP-lined cap	Cool ≤6 °C	7/40 days	SM-6410 B	
<b>RCRA Metals</b>	Digestion followed by any of the following:					
w/ww	AA direct aspiration	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SM-3111 D/E	
w/ww	AA furnace	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SM-3111 B	
w/ww	STGFAA	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months		EPA 200.9
w/ww	ICP/AES	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SM-3120 B	



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

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w/ww	ICP/MS	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SM-3125 B	
w/ww	Colorimetric	100mL P/FP/G	HNO <sub>3</sub> to pH<2 or at least 24 hours prior to analysis	6 months	SM-3500-(Metal)-B	
s/sw		4 oz. G	4 °C	6 months	SW-6010C/7470A	
<b>Resistivity</b>						
w/ww		100mL P/G	4 °C	28 days		EPA 120.1
s/sw		4 oz. G	4 °C	28 days		EPA 120.1
<b>Residue Total</b>						
w/ww	Gravimetric, 103 <sup>0</sup> -105 <sup>0</sup>	100mL P/FP/G	Cool ≤6 °C	7 days	SM-2540 B	
<b>Residue Filterable</b>						
w/ww	Gravimetric, 180 <sup>0</sup>	100mL P/FP/G	Cool ≤6 °C	7 days	SM-2540 C	
<b>Residue non-Filterable(TSS)</b>						
w/ww	Gravimetric, 103 <sup>0</sup> -105 <sup>0</sup> , post washing of residue	100mL P/FP/G	Cool ≤6 °C	7 days	SM-2540 D	
<b>Residue, settleable</b>						
w/ww	Volumetric or gravimetric	100mL P/FP/G	Cool ≤6 °C	7 days	SM-2540 F	
<b>Residue, volatile</b>						
w/ww	Gravimetric, 550 <sup>0</sup>	100mL P/FP/G	Cool ≤6 °C	7 days	SM-2540 E	
<b>Semi volatiles</b>						
w/ww	GC/MS	1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 8270 C	EPA 628
s/sw		4 oz. G	4 °C	14/40 days	SW-846 8270 C	
<b>Silica(Dissolved)</b>	0.45-micron filtration followed by any of the following:					
w/ww	Colorimetric manual	100mL P/Quartz	Cool ≤6 °C	28 days	SM-4500 SiO <sub>2</sub> C	
w/ww	Automated	100mL P/Quartz	Cool ≤6 °C	28 days	SM-4500 SiO <sub>2</sub> E/F	
w/ww	ICP/AES	100mL P/Quartz	Cool ≤6 °C	28 days	SM-3120 B	
w/ww	ICP/MS	100mL P/Quartz	Cool ≤6 °C	28 days	SM-3125 B	
<b>Specific conductance</b>						
w/ww	Wheatstone bridge	100mL P/FP/G	Cool ≤6 °C	28 days	SM-2510 B	
<b>Specific Gravity</b>						
w/ww		250mL P/G	N/A	N/A	SM-2710F	
s/sw		4 oz. G	N/A	N/A	SM-2710F	
<b>Sulfate</b>						
w/ww	Automated colorimetric	100mL P/FP/G	Cool ≤6 °C	28 days	SM-4500 SO <sub>4</sub> <sup>2-</sup> F/G	



# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

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w/ww	Gravimetric	100mL P/FP/G	Cool ≤6 °C	28 days	SM-4500 SO <sub>4</sub> <sup>2-</sup> C/D	
w/ww	Turbidimetric	100mL P/FP/G	Cool ≤6 °C	28 days	SM-4500 SO <sub>4</sub> <sup>2-</sup> E	
w/ww	Ion chromatography	100mL P/FP/G	Cool ≤6 °C	28 days	SM-4110 B/C	
w/ww	CIE/UV	100mL P/FP/G	Cool ≤6 °C	28 days	SM-4140 B	
s/sw		4 oz. G	4 °C	28 days		EPA 300
<b>Sulfide</b>						
w/ww	Sample pretreatment	100mL P/FP/G	Cool ≤6 °C, add zinc acetate plus sodium hydroxide to pH>9	7 days	SM-4500 S <sup>2-</sup> B/C	
w/ww	Titrimetric(iodine)	100mL P/FP/G	Cool ≤6 °C, add zinc acetate plus sodium hydroxide to pH>9	7 days	SM-4500 S <sup>2-</sup> F	
w/ww	Colorimetric(methylene blue)	100mL P/FP/G	Cool ≤6 °C, add zinc acetate plus sodium hydroxide to pH>9	7 days	SM-4500 S <sup>2-</sup> D	
w/ww	Ion selective electrode	100mL P/FP/G	Cool ≤6 °C, add zinc acetate plus sodium hydroxide to pH>9	7 days	SM-4500 S <sup>2-</sup> G	
s/sw		4 oz. G	Cool ≤6 °C, add zinc acetate plus sodium hydroxide to pH>9	7 days		EPA 376.1 /376.2
<b>Sulfite</b>						
w/ww	Titrimetric(iodine-iodate)	100mL P/FP/G	N/A	Analyze within 15 mins	SM-4500 SO <sub>3</sub> <sup>2-</sup> B	
<b>Surfactants</b>						
w/ww	Colorimetric	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-5540 C	
<b>TCLP benzene</b>						
w/ww		2 x 40mL G	4 °C Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , HCl to pH<2	14/7 days	SW-846 1311	EPA 8021 B
s/sw		4 oz. G	4 °C	14/7days	SW-846 1311	EPA 8021 B
<b>TCLP Extraction : Non volatile</b>						
sw		8 oz. G	4 °C	14 days	SW-846 1311	
<b>TCLP Herbicides</b>						
w/ww		1000mL AG	4 °C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7/40 days	SW-846 1311	EPA8151A
sw		4 oz. G	4 °C	7/40 days	SW-846 1311	EPA8151A
<b>TCLP Metals</b>						
w/ww		1000mL P	4 °C HNO <sub>3</sub> to pH<2	6 months	SW-846 1311	6010 C
sw		4 oz. G	4 °C	6 months	SW-846 1311	6010 C
<b>TCLP Pesticides</b>						
w/ww		1000mL AG	4 °C	7/40 days	SW-846 1311	8081 A
sw		8 oz. G	4 °C	7/40 days	SW-846 1311	8081 A





# TTI ENVIRONMENTAL LABORATORIES

800 106<sup>th</sup> Street ♦ Arlington, Texas 76011 ♦ Phone: (817) 861-5322

## Environmental Testing Service Guide

Matrix	Method	Sample Size Container	Preservation	Holding Times	Standard Method/ SW	EPA
<b>Temperature</b>						
w/ww	Thermometric	100mL P/FP/G	N/A	Analyze	SM-2550 B	
<b>Total dissolved solids</b>						
w/ww		500mL P/G	4 °C	7 days		EPA 160.1
<b>Total Haloacetic Acids</b>						
w/ww		3x60mL G	4 °C, NH <sub>4</sub> Cl(No HS)	14 days		EPA 552.2
<b>Total Solids(TSS+TDS)</b>						
w/ww		500mL P/G	4 °C	7 days		EPA 160.3
<b>TOX/TOH(Total Organic Halides)</b>						
w/ww		2x250mL G	4 °C, H <sub>2</sub> SO <sub>4</sub> to pH<2	14 days	SW-846 9020B	
sw/oil/solvent		4 oz. G	4 °C	14 days	SW-846 9023	
<b>Toxicity acute</b>						
ww/sw	For fresh organisms	100mL P/FP/G	Cool ≤6 °C	36 hours		EPA 2002/2019/2000/2021
ww/sw	For estuarine and marine organisms	100mL P/FP/G	Cool ≤6 °C	36 hours		EPA 2004/2006/2007
<b>Toxicity chronic</b>						
ww/sw	For fresh organisms	100mL P/FP/G	Cool ≤6 °C	36 hours		EPA 1000/1001/1002/1003
ww/sw	For estuarine and marine organisms	100mL P/FP/G	Cool ≤6 °C	36 hours		EPA1004/1005/1006 /1007 /1008
<b>TPH</b>						
w/ww	GC	2x40mL G, 1L G	4 °C, HCl to pH<2	14 days	SW-846 8015B	
s/sw		4 oz. G	4 °C	14 days	SW-846 8015B	
<b>TSS</b>						
w/ww		500mL P/G	4 °C	7 days		EPA 160.2
<b>Trihalomethanes</b>						
w/ww	GC	2x40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SM-6200 C	
w/ww	GC/MS	2x40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SM-6200 B	
<b>Turbidity</b>						
w/ww	Nephelometric	100mL P/FP/G	Cool ≤6 °C	48 hours	SM-2130 B	
<b>Volatiles(VOC)</b>						
w/ww	GC/MS	2x40mL G	4 °C, HCl to pH<2 (No HS)	14 days	SW-846 8260B	EPA 624
s/sw		4 oz. G	4 °C	14 days	SW-846 8260B	