

## Containers, Preservatives, Holding Times

### Water - All Types

Analyte	Method	Container	Preservative	Holding Time
Acidity	305.2	1 - 250mL poly	4°C	14 days
Alkalinity	310.1	1 - 250mL poly	4°C	14 days
Ammonia	SM4500-NH3	1 - 250mL poly	4°C, 1.5mL 1:1 H <sub>2</sub> SO <sub>4</sub>	28 days
Anions	300 (IC method)	1 - 250mL poly	4°C	28 days
BOD	SM5210B / 405.1	1 - 1L poly	4°C	48 hours
BNA	8270 / 625	1 - 1L amber	4°C	7 days
Carbon, Total Organic (TOC water)	415.1 (HACH)	1 - 125mL amber	4°C, 2mL 1:1 H <sub>2</sub> SO <sub>4</sub>	28 days
Chloride by titration	SM4500B / D512	1 - 250mL poly	4°C	48 hours
Chloride, Residual	SM4500	1 - 250mL amber	4°C	Immediately
Chromium, Hexavalent	3060A mod	1 - 250mL amber	4°C	24 hours
COD	410.3	1 - 250mL poly	4°C, 2mL 1:1 H <sub>2</sub> SO <sub>4</sub>	28 days
Coliform (MPN)	Quanti-Tray	2 - 110mL, sterile	4°C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> powder	24 hours
Coliform (Pass/Fail)	ReadyCult	1 - 110mL, sterile	4°C, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> powder	24 hours
Conductivity (Specific Conductance)	120.1	1 - 250mL poly	4°C	28 days
Cyanide, Total & Amenable	9012A (Spot Test)	1 - 1L poly	4°C, 10mL 10N NaOH	14 days
Dissolved Oxygen	SM4500-OC	1 - 1L poly	none	Immediately
Gross Alpha, Beta	9310 / 900.0	2 - 1L poly	5mL 1:1 HNO <sub>3</sub>	180 days
Herbicides, Pesticides	Various	2 - 1L amber	4°C	7 days
Hydrocarbon Fingerprint	8015M	1 - 1L amber	4°C, 5mL 1:1 HCl	7 days
Langelier Index	SM2330B	1 - 1L poly	4°C	ASAP
Metals, Dissolved	6010, 6020	1 - 250mL poly	4°C, filt, 2mL 1:1 HNO <sub>3</sub>	28 days
Metals, Total	6010, 6020	1 - 250mL poly	4°C	28 days
Methanol, Ethanol, Propanol, Glycol	8015M	2 - 40mL vial	4°C	14 days
Nitrogen, Kjeldahl	SM4500 N <sub>org</sub>	1 - 1L poly	4°C, 2mL 1:1 H <sub>2</sub> SO <sub>4</sub>	28 days
Oil & Grease	1664	1 - 1L amber	4°C, 5mL 1:1 HCl	28 days
PAH	8270, 8310 / 610	1 - 1L amber	4°C, dark	7 days
PCBs	8082 / 608	1 - 1L amber	4°C	7 days
pH	150.1	1 - 250mL poly	4°C	Immediately
Phenolics	420.1	1 - 1L amber	4°C, 2mL 1:1 H <sub>2</sub> SO <sub>4</sub>	28 days
Purgeable Halocarbons	8260, 8010 / 624	2 - 40mL vials	4°C	14 days
Ra226, Ra228	9315, 9320	2 - 1L poly	5mL 1:1 HNO <sub>3</sub>	180 days
Solids, TS/TDS/TSS/TVS	160	1 - 500mL poly	4°C	7 days
Sulfate, gravimetric	375.3	1 - 500mL poly	4°C	ASAP
Sulfide	Hach HS-C	1 - 500mL amber	4°C, 2.5mL ZnOAc	7 days
Surfactants (MBAS)	SM5540C mod	1 - 250mL amber	4°C	48 hours
SVOAs	8270 / 625	1 - 1L amber	4°C	7 days
Halogens, Total Organic (TOX)	9020B	1 - 500mL amber	4°C, 3mL 1:1 H <sub>2</sub> SO <sub>4</sub>	7 days
TPH 418.1	418.1 (freon)	1 - 1L amber	4°C, 5mL 1:1 HCl	28 days
TPH DRO	8015M	1 - 1L amber	4°C, 5mL 1:1 HCl	7 days
TPH GRO, BTEX, MTBE	8015M / 8260	2 - 40mL vials	4°C, 0.5mL 1:1 HCl	14 days
Turbidity	180.1	1 - 250mL poly	4°C	48 hours
VOAs	8260 / 624	2 - 40mL vials	4°C, 0.5mL 1:1 HCl	14 days

### Float/Sink Analysis (Light Weight Aggregate)

Particle Size	Method	Sample Weight	Holding Time
Sand	C123	0.5 pounds	90 days
3/8 inches	C123	3 pounds	90 days
1/2 to 3/4 inches	C123	7 pounds	90 days
1 to 1.5 inches	C123	11 pounds	90 days
2 inches or larger	C123	22 pounds	90 days

## Soil, Solid Waste, Sludge

Analyte	Method	Container	Preservative	Holding Time
BNA	8270 / 625	1 - 4oz jar	4°C	14 days
Carbon, Total Organic (TOC solid/soil)	Various	1 - 4oz jar	4°C	ASAP
Herbicides, Pesticides	Various	2 - 8oz jar	4°C	7 days
Hydrocarbon Fingerprint	8015M	1 - 4oz jar	4°C	14 days
Ignitability	1030	1 - 8oz jar	4°C	ASAP
Metals, Dissolved	6010, 6020	1 - 4oz jar	none	180 days
Metals, Total	6010, 6020	1 - 4oz jar	none	180 days
PAH	8100, 8270, 8310	1 - 4oz jar	4°C	14 days
Paint Filter Test	9095B	1 - 8oz jar	4°C	28 days
PCBs	8082	1 - 4oz jar	4°C	14 days
pH / Corrosivity	Various	1 - 4oz jar	none	Immediately
Phenolics	8040, 8270	1 - 8oz jar	4°C	7 days
Purgeable Halocarbons	8260, 8010, 8240	1 - 4oz jar	4°C	14 days
Reactivity – CN, Sulfide	Various	1 - 4oz jar	4°C, dark	ASAP
Saturated Paste Extraction	60-2,3	1 - 8oz jar	4°C	14 days
SVOAs	8270 / 625	1 - 4oz jar	4°C	14 days
TCLP extraction	1311	1 - 8oz jar	4°C	28 days
TPH 418.1	418.1M	1 - 4oz jar	4°C	14 days
TPH DRO	8015M	1 - 4oz jar	4°C	14 days
TPH GRO, BTEX, MTBE	8015M / 8260	1 - 4oz jar	4°C	14 days
VOAs	8260	1 - 4oz jar	4°C	14 days
Wyoming Leachate Procedure	WOGCC 4/27/99	2 - 8oz jar	4°C	28 days

## Coal, Biomass, Cogeneration, Ash, Construction Material

Analyte	Method	Sample Wt, Vol - un-prepped	Sample Wt, Vol - prepped
Ash Fusion – Raw Sample	D1857	1 - 1gal Ziploc	100 grams
Ash Fusion – Pre-ashed	D1857	N/A	5 grams
Bulk Density	D155 / C559	1 - 1gal Ziploc	N/A
Chloride, Fluoride, Metals (any part)	Various	1 - 1qt Ziploc	5 grams
Elemental Ash Analysis – Raw Sample	D432	1 - 1gal Ziploc	100 grams
Elemental Ash Analysis – Pre-ashed	D432	N/A	5 grams
Equilibrium Moisture	D1412	1 - 1qt Ziploc (double bag)	15 grams
Free Swelling Index	D720	1 - 1qt Ziploc (double bag)	5 grams
Hardgrove Grindability Index	D409	100 grams	60 grams > 8 mesh size
Proximate, Ultimate, Btu (any part)	Various	1 - 1gal Ziploc (double bag)	10 grams
Specific Gravity	D167	1 - 1qt Ziploc	N/A

## Petroleum – Gasoline, Diesel, Oil, Waste Oil, Grease, Wax,

Analyte	Method	Container	Holding Time
Basic Fuel Oil Analysis (any part)	Various	1 - 250mL Nalgene	90 days
Chloride, Bromide, Iodide	XRF	1 - 40mL vial	90 days
Cloud Point	D5773	1 - 250mL Nalgene	90 days
Distillation	D86	1 - 500mL Nalgene	90 days
Flash/Fire Point	Various	1 - 250mL Nalgene	90 days
Fluoride	D3761 / D5987	1 - 40mL vial	90 days
Freeze Point	D7153	1 - 250mL Nalgene	90 days
Pour Point	D5949 / D5950	1 - 250mL Nalgene	90 days
Simulated Distillation	Various	2 - 40mL vials	90 days
Sulfur by XRF	D2622	1 - 40mL vial	90 days
Viscosity	Various	1 - 250mL Nalgene	90 days
Water in Oil	D95	1 - 250mL Nalgene	90 days