# LIQUID CONTAINERS/PRESERVATIVES/HOLDING TIMES

All analysis needs to be kept cool to 4C except metals.

| **METAL ANALYSIS** | CONTAINER | MAXIMUM HOLDING TIMES |
|---|---|---|
| Total ICP or ICP/MS Metals | HDPE preserved - 100ml | 6 Months |
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| Dissolved ICP or ICP/MS Metals(lab to filter) | HDPE unpreserved(lab to filter)-50ml | 6 Months |
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| Dissolved ICP or ICP/MS Metals(field filtered) | HDPE preserved(field filtered)-50ml | 6 Months |
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| Dissolved Mercury(lab to filter) | HDPE unpreserved(lab to filter)-50ml | 28 Days |
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| Dissolved Mercury(field filtered) | HDPE preserved HNO3(field filtered)-50ml | 28 Days |
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| Total Mercury | HDPE preserved HNO3 - 50ml | 28 Days |
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| Dissolved Low Level Mercury(field filtered) | 125ml Amber unpreserved-50ml | 28 Days |
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| Dissolved Low Level Mercury(lab to filter)**24 Hours to filter | 125ml Amber unpreserved-125ml | 28 Days** |
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| Total Low Level Mercury | 125ml Amber unpreserved-125ml | 28 Days |
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| Hexavalent Chromium | HDPE unpreserved - 60ml | 24 Hours |
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| Ferrous Iron | HDPE unpreserved - 50ml | Immediate |
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| **ORGANIC ANALYSIS** | | |
| Alcohols | VOA unpreserved - 1 voa | 7 Days |
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| BNA | Amber unpreserved - 500ml | 7 Days |
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| DRO | Amber unpreserved - 500ml | 7 Days |
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| Formaldehyde | Amber unpreserved - 500ml | 3 Days |
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| Glycols | VOA unpreserved - 1 VOA | 7 Days |
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| GRO | VOA HCl - 2 VOA | 7 Days |
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| Herbicide | Amber unpreserved - 500ml | 7 Days |
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| PCB/Pesticide | Amber unpreserved - 500ml | 7 Days |
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| Phenols | Amber unpreserved - 500ml | 7 Days |
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| Phthalates | Amber unpreserved - 500ml | 7 Days |
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| PNA | Amber unpreserved - 500ml | 7 Days |
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| TPH | VOA HCl - 2 VOA | 14 Days |
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| Volatiles*1 | VOA HCl - 2 VOA(preserved) | 14 Days |
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| **MICROBIOLOGICAL** | | |
| Coliform Total+E.Coli(Drinking Water) | Pre-sterilized HDPE w/Sodium Thiosulfate | 30 Hours |
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| Coliform, Fecal | Pre-sterilized HDPE w/Sodium Thiosulfate | 8 Hours |
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| Coliform Total+E.Coli(Non Drinking Water) | Pre-sterilized HDPE w/Sodium Thiosulfate | 8 Hours |
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| Heterotropic Plate Count | Pre-sterilized HDPE w/Sodium Thiosulfate | 8 Hours |
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| **INORGANIC ANALYSIS** | | |
| Alkalinity | HDPE unpreserved - 50ml | 14 Days |
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| Ammonia | HDPE H2SO4 - 10 ml | 28 Days |

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|---|---|---|
| BOD | HDPE unpreserved - 500ml | 48 Hours |
| CBOD | HDPE unpreserved - 500ml | 48 Hours |
| COD | HDPE H2SO4 - 10 ml | 28 Days |
| Chloride | HDPE unpreserved - 20ml | 28 Days |
| Chlorine(Residual) | HDPE unpreserved - 20ml | 15 Minutes |
| Cyanide(Amenable) | HDPE NaOH - 150ml | 14 Days |
| Cyanide(Available)*2 | HDPE NaOH - 100ml | 14 Days |
| Cyanide(Reactive) | Glass unpreserved - 50ml | ASAP |
| Cyanide(Total) | HDPE NaOH - 100ml | 14 Days |
| Dissolved Oxygen | HDPE unpreserved - 500ml | 15 Minutes |
| EOX/TX/TOX | Glass unpreserved - 100ml | 28 Days |
| Flashpoint | Glass unpreserved - 100ml | ASAP |
| Fluoride | HDPE unpreserved - 20ml | 28 Days |
| MBAS | Glass unpreserved - 300ml | 48 Hours |
| Methane | VOA HCl - 2 VOA | 14 Days |
| Nitrate | HDPE unpreserved - 20ml | 48 Hours |
| Nitrite | HDPE unpreserved - 20ml | 48 Hours |
| Oil & Grease | Glass H2SO4 - 1L | 28 Days |
| pH(wastewater/drinking water) | HDPE unpreserved - 30ml | 15 Minutes |
| pH(SW846) | HDPE unpreserved - 30ml | ASAP |
| Phenol(4AAP) | Glass H2SO4 - 400ml | 28 Days |
| Phosphate (Ortho) | HDPE unpreserved - 10ml | 48 Hours |
| Phosphate(Total) | HDPE H2SO4 - 25ml | 28 Days |
| Phosphorus(Total) | HDPE H2SO4 - 25ml | 28 Days |
| Resistivity | HDPE unpreserved - 30ml | 28 Days |
| Specific Conductivity | HDPE unpreserved - 30ml | 28 Days |
| Sulfates | HDPE unpreserved - 20ml | 28 Days |
| Sulfide(Hydrogen Sulfide)*3 | HDPE NaOH+ZnAc - 60ml | 7 Days |
| Sulfide(Reactive) | Glass unpreserved - 50ml | ASAP |
| Sulfide(Total) | HDPE NaOH+ZnAc - 50ml | 7 Days |
| Sulfite | HDPE unpreserved - 100ml | 15 Minutes |
| TDS | HDPE unpreserved - 150ml | 7 Days |
| TSS | HDPE unpreserved - 150ml | 7 Days |
| TKN | HDPE H2SO4 - 50ml | 28 Days |

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|---|---|---|
| TOC | VOA HCl - 1 VOA | 28 Days |
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| Turbidity | HDPE unpreserved - 50ml | 48 Hours |

Footnotes

*1. All volatile analysis require zero headspace.

*2. Available Cyanide needs to be field filtered. Call lab for kit.

*3. Hydrogen Sulfide - requires 2 separate containers(unpreserved HDPE&HDPE NaOH+ZnAc)

MS/MSD for any analysis requires more sample.

Abbreviations:

DW=Drinking Water
G=Glass
H2SO4=Sulfuric Acid
HCl=Hydrochloric Acid
HDPE=High Density Polyethylene
HNO3=Nitric Acid
NaOH=Sodium Hydroxide
ZnAc=Zinc Acetate