

MAXIMUM HOLDING TIME AND CONTAINER CHART

GENERAL / INORGANIC CHEMISTRY								
ANALYSIS	WATER (< 6°C)			SOIL (< 6°C)	Max HT ¹ in Days (unless noted)		Min Sample Quantity ²	
	Container	Type	Preservative		Water	Soil	Water (ml)	Soil (gm)
Alkalinity	Pint	P	--	8 oz. jar	14	--	100	10
Ammonia (NH ₃)	Pint	P	H ₂ SO ₄ ; pH<2	8 oz. jar	28	28	100	5
BOD	Quart (H)	P	--	8 oz. jar	48 Hrs.	48 Hrs.	1000	150
Bromide	Pint	P	--	8 oz. jar	28	28	50	30
Chloride	Pint	P	--	8 oz. jar	28	28	50	30
Chlorine (Residual)	Pint (H)	P	--	--	15 Min.	--	500	--
COD	Pint	P	H ₂ SO ₄ pH<2	8 oz. jar	28	28	50	25
Color	Pint	AG/P	--	--	48 Hrs.	--	100	--
Cyanide (Total)	Pint	P	NaOH; pH>12	8 oz. jar	14	14	200	20
Cyanide (Reactive)	Pint	P	--	8 oz. jar	ASAP	ASAP	50	50
Dissolved Oxygen	Quart (H)	P	--	--	15 Min.	--	500	--
Dissolved Organic Carbon	4 oz.	AG	--	--	28	--	100	--
Electrical Conductivity (EC)	Pint	P	--	8 oz. jar	28	28	200	--
Flashpoint	Pint	AG	--	8 oz. jar	--	--	500	100
Fluoride	Pint	P	--	8 oz. jar	28	28	50	30
Gross Alpha	Quart	P	HNO ₃ <2 or Upres	8 oz. jar	6 Mo.	6 Mo.	1000	250
Gross Beta	Quart	P	HNO ₃ <2 or Upres	8 oz. jar	6 Mo.	6 Mo.	1000	250
Hardness	Pint	P	--	--	28	--	200	--
Hexavalent Chromium (Cr+6)	2 oz.	P	Borate/HCO ₃ /CO ₃	--	5	30 Days till Ext.	50	--
	Pint	P	--	8 oz. jar	24 Hrs.	7 Days to run	50	20
Iodide	Pint	P	--	8 oz. jar	ASAP	28 Days	50	30
Nitrate/Nitrite (NO ₃ /NO ₂)	2oz	p	H ₂ SO ₄ ; pH <2	8 oz. jar	28	28 Days After Ext.	50	30
Nitrite (NO ₂)	Pint	P	--	8 oz. jar	48 Hrs.	48 Hrs. After Ext.	50	30
Nitrate as NO ₃	Pint	P	--	8 oz. jar	48 Hrs.	48 Hrs. After Ext.	50	30
Odor	Pint	AG	--	--	--	--	500	--
ORP	Pint (H)	P	--	--	ASAP	--	100	--
Perchlorate	Pint	P	--	8 oz. jar	28	28	50	30
pH	Pint	P	--	8 oz. jar	15 Min.	--	100	50
Phenols	4 oz.	A	H ₂ SO ₄ ; pH <2	8 oz. jar	28	28	200	10
Total Phosphorous	Pint	P	H ₂ SO ₄ ; pH <2	8 oz. jar	28	28	100	10
Ortho- Phosphorous	Pint	P	--	8 oz. jar	48 Hrs.	48 Hrs. After Ext.	50	30
TDS	Quart	P	--	--	7	--	500	--
TSS	Quart	P	--	--	7	--	1000	--
Settleable Solids	Quart	P	--	--	48 Hrs.	--	1000	--
Total Solids	Quart	P	--	8 oz. jar	7	7	500	50
Specific Gravity	Pint	P	--	8 oz. jar	28	28	500	10
Sulfate	Pint	P	--	8 oz. jar	28	28	50	30
Sulfide (Total)	Pint	P	Zn Acetate	8 oz. jar	7	--	200	--
Sulfide (Reactive)	Pint	P	--	8 oz. jar	ASAP	ASAP	50	50
Surfactants (MBAS)	Quart	P	--	--	48 Hrs.	--	500	--
Coliforms	8 oz.	GN	Na ₂ S ₂ O ₃	--	6, 30 Hr.	--	125	--
Total Kjeldahl Nitrogen (TKN)	Pint	P	H ₂ SO ₄ ; pH <2	8 oz. jar	28	28	100	10
Total Organic Carbon (TOC)	4 oz.	A	H ₂ SO ₄ ; pH <2	8 oz. jar	28	28	100	25
Total Organic Halide (TOX)	Pint	A	H ₂ SO ₄ ; pH <2	8 oz. jar	7	Not specified	500	50
Turbidity	Pint	AG, P	--	--	48 Hrs.	--	50	--

METALS					
ANALYSIS	Container	Type	Preservative	Max HT ⁽¹⁾	Min. Sample Vol. (mls) ⁽²⁾
WATER					
Total Metals	Pint	P	HNO ₃	6 Months (28 Days -Hg/Si)	100
Dissolved Filtered in Field	Pint	P	HNO ₃	6 Months (28 Days -Hg/Si)	100
Dissolved not filtered	Quart	P		6 Months (28 Days -Hg/Si)	250
Organic Lead	Quart	AG	Chill to <°6 C	14 Days	1000
200.8 Copper and Lead ⁵	Quart	P	HNO ₃ in lab pH<2	6 Months	1000
ANALYSIS	Container	Type	Preservative	Max HT ¹	Min Quantity (gms) ²
SOIL					
Total Metals	8 oz. Jar	G	Chill to <°6 C	6 Months (28 Days -Hg)	50
WET/STLC	As needed	G	Chill to <°6 C	6 Months (28 Days -Hg)	50
TCLP	As needed	G	Chill to <°6 C	6 Months (28 Days -Hg)	150
SPLP	As needed	G	Chill to <°6 C	6 Months (28 Days -Hg)	150
Hexavalent Chromium	8 oz. Jar	G	Chill to <°6 C	30 Days / 7 Days from Ext.	50
Organic Lead	8 oz. Jar	G	Chill to <°6 C	14 Days	50

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ORGANIC CHEMISTRY

ANALYSIS	WATER (< 6°C)			SOIL (< 6°C)	Max HT ⁽¹⁾ in Days (unless noted)				Min Sample Quantity ⁽²⁾	
					Water		Soil			
					Container	Type	Preservative	Container	Extract	Analysis
504	2x VOA	G	Na ₂ S ₂ O ₃ ⁽³⁾	8 oz. Jar	14	1	14	14	1 VOA	10
508	Liter	AG	Na ₂ S ₂ O ₃ ⁽³⁾	8 oz. Jar	7	14			1 L	50
524.2/ TCP/THMS	2x VOA (H)	G	Ascorbic/HCl in field	--	--	14	--	--	1 VOA	--
525.2/507	Liter	AG	Na ₂ SO ₃ /HCl in field	--	14 ⁽⁴⁾	30	--	--	1 L	--
548	2 x 250ml	AG	Na ₂ S ₂ O ₃ ⁽³⁾	--	7	21	--	--	200 mls	--
549	Liter	AP	Na ₂ S ₂ O ₃ ⁽³⁾	--	7	21	--	--	200 mls	--
552.3	125 ml	AG	NH ₄ Cl	--	14	28	--	--	1 VOA	--
556	2 x VOA	A	NH ₄ Cl/CuSO ₄	--	7	40	--	--	1 VOA	--
632	Liter	AG	⁽³⁾	8 oz. Jar	7	40	14	40	1 L	50
8015B Gasoline Range	2x VOA (H)	G	HCl ⁽³⁾	8 oz. Jar	14	14	--	14	1 VOA	10
8015B Diesel Range	Liter	AG	--	8 oz. Jar	14	40	14	40	1 L	50
8015 Ethanol/Methanol	2x VOA (H)	G	--	8 oz. Jar	--	14	--	14	1 VOA	10
8021 BTEX/MTBE	2x VOA (H)	G	HCl ⁽³⁾	8 oz. Jar	--	14	--	14	1 VOA	10
8081/608	Liter	AG	Na ₂ S ₂ O ₃ ⁽³⁾	8 oz. Jar	7	40	14	40	1 L	50
8082	Liter	AG	Na ₂ S ₂ O ₃ ⁽³⁾	8 oz. Jar	None	40	None	40	1 L	50
8141	Liter	AG	⁽³⁾	8 oz. Jar	7	40	14	40	1 L	50
8151/615/515.1	Liter	AG	Na ₂ S ₂ O ₃ ⁽³⁾	8 oz. Jar	7	40	14	40	1 L	50
8260/624	2x VOA (H)	G	Ascorbic ⁽⁶⁾ /HCl in field	8 oz. Jar	--	14	--	14	1 VOA	10
8270/625	2 x Liter	AG	⁽³⁾	8 oz. Jar	7	40	14	40	1 L	50
8310/610	Liter	AG	--	8 oz. Jar	7	40	14	40	1 L	50
8330	Liter	AG	--	8 oz. Jar	7	40	14	40	1 L	50
1664 Oil and Grease	Liter	AG	HCl	8 oz. jar	28	--	28	--	1 L	50
1664 TPH	Liter	AG	HCl	8 oz. jar	28	--	28	--	1 L	50
TCLP Volatiles	8 oz.	G	--	8 oz. Jar	14	7	14	7	1 L	50
TCLP Semi Volatiles	Liter (Each test)	AG	--	8 oz. Jar	7	40	14 Days until TCLP Leaching			

AIR / VAPOR

ANALYSIS	Container Keep from Light	Max HT ¹	Min Mass (L)
ASTM D-1946 Fixed Gases	Tedlar Bag	3	1
	Summa Canister	30	5
25C Landfill Gases TGNMO	Tedlar Bag	3	1
	Summa Canister	30	5
TO-3 TPH Gas	Tedlar Bag	3	1
	Summa Canister	30	5
TO-14A/TO-15 VOCs	Tedlar Bag	3	1
	Summa Canister	30	5

NOTES:

- ⁽¹⁾ = Calculated from time the sample is collected.
- ⁽²⁾ = Amount needed to achieve normal method detection limits or regulatory requirements.
- ⁽³⁾ = Samples containing residual chlorine must be dechlorinated at the time of sampling.
- ⁽⁴⁾ = 7 Days if Diazonin is requested.
- ⁽⁵⁾ = First Draw sample after 6 - 12 Hour idle period.
- ⁽⁶⁾ = Ascorbic only if from chlorinated source

A= Amber
AG= Amber Glass with Teflon lined Cap
AP= Amber Plastic
G= Glass
GN= Sterilized Glass or Nalgene
H= Headspace Free
HT= Holding Time
P= Plastic
VOA= 40 ml Glass Vials with Teflon lined Cap

Fill all containers as much as possible.

TCLP and STLC extractions cannot be conducted on acid-treated containers.

Keep all Air/Vapor samples out of light.

8 oz. Jars all have Teflon lined Caps