

Water Holding Times

Parameter	Matrix	Preservation	Holding Time	Container	Min Volume	Standard	Notes
Alkalinity	W/L	5±4°C	28 days	G or P	30ml	In House	
Dissolved Metals ICP (except Hg)	W/L	HCL/ HNO3	6 month	G or P	20ml	APHA 1060:1	Must be filtered on site
Dissolved Mercury ICP	W/L	HNO3	28 days	G or P	40ml	APHA 1060:2	
Dissolved Metals (As, Ba, Cd, Cr, Cu, Co, Pb, Mn, Mo, Ni, P, Se, Ti, V, Zn)	W/L	unpreserved	14 days	G or P	20ml	In House	No sediment
Dissolved Al, B, Fe, Sb,	W/L	unpreserved	11 days	G or P	20ml	In House	No sediment
Dissolved Mercury ICP	W/L	unpreserved	10 days	G	20ml	In House	No sediment
Ammonia/Amm N	W/L	H2SO4	28 days	G or P	5ml	APHA 1060:1	
Ammonia/Amm N	W/L	5±4°C	28 days	G or P	5ml	In House	
Chloride	W/L	5±4°C	28 days	G or P	10ml	APHA 1060:1/ USEPA 300.0	
Nitrate	W/L	5±4°C	15 days	G or P	5ml	In House	
Nitrite	W/L	5±4°C	15 days	G or P	5ml	In House	
TON	W/L	H2SO4	28 days	G or P	5ml	APHA 1060:1	
TON	W/L	5±4°C	28 days	G or P	5ml	In House	
BOD	W/L	5±4°C	48hr (USEPA)	P	250ml	APHA 1060:1/ BS 5667-3	No headspace in separate bottle
COD	W/L	5±4°C	31 days	P	5ml	In House	
TOC	W/L	5±4°C	30 days	G or P	20ml	In House	
IC	W/L	5±4°C	31 days	G or P	20ml	In House	
TC	W/L	5±4°C	32 days	G or P	20ml	In House	
Conductivity	W/L	5±4°C	28 days	G or P	30ml	In house/APHA 1060:1	
PAH	W/L	5±4°C	20 days	G	150ml	In House	
EPH	W/L	5±4°C	21 days	G	150ml	In House	
pH	W/L	5±4°C	28 days	G or P	30ml	In House	
Phenols	W/L	H2SO4	28 days	G or P	10ml	APHA 1060:1	
Phenols	W/L	5±4°C	21 days	G or P	10ml	In House	
orthophosphate	W/L	5±4°C	1 Month	G or P	10ml	BS 5667-3	
Total Phosphorus	W/L	H2SO4	28 days	G or P	10ml	APHA 1060:1/BS 5667-3	
sulphate	W/L	5±4°C	28 days	G or P	10ml	APHA 1060:1	
Hex Cr	W/L	≤4°C	24 hours	G or P	5ml	USEPA QA Manual 2016/ BS 5667-3	
Hex Cr	W	Buffer preserved	28 days	P	5ml	USEPA QA Manual 2016/APHA 1060:1	
Cyanides	W/L	NaOH	28 days	G or P	30ml	In house/APHA 1060:1	Do NOT filter
Cyanides	W/L	5±4°C	28 days	G or P	30ml	In House	
VOCs/Fuel Oxygenates	W/L	5±4°C	14 days	G	40ml		No headspace
SVOCs	W/L	5±4°C	14 days	G	150ml	In House	
Dissolved Gases	W/L	5±4°C	14 days	G	40ml	USEPA QA Manual 2016	
GRO/MBTEX	W/L	5±4°C	14 days	G	40ml	In House	No headspace
TS	W/L	≤6 C°.	21 days	G or P	100ml	In House	
TDS	W/L	5±4°C	21 days	G or P	100ml	In House	
TSS	W/L	≤6 C°.	28 days	G or P	100ml	In House	
Fe II & III, Mn II	W/L	HCl	28 days	G or P	40ml	In House	
PCBs	W/L	5±4°C	7 days	G	150ml	In House	
Sulphide	W/L	ZnAc	7 days	G or P	5ml	In House	Do NOT filter

Soil Holding Times

Parameter	Matrix	Preservation	Holding Time	Container	Min Volume	Standard	Notes
EPH, PAH, SVOCs, PCBs	S	27° C	14 days	G	20g	USEPA QA Manual 2016	
VOCs/BTEX/GRO	S	1-9° C	14 days	G	60g	USEPA SW-846 2012/NEPM 2013	No headspace
Vinyl Chloride, Styrene	S	1-9° C	7 days	G	60g	USEPA SW-846 2012/NEPM 2013	No headspace
Phenols	S	none	14 days	G	20g	USEPA QA Manual 2016	
Metals (excl Hg)	S	none	6 months	G or P	10g	USEPA QA Manual 2016	
pH	S	27° C	28 days	G or P	30g	In House	
Mercury	S	none	28 days	G or P	10g	USEPA QA Manual 2016/NEPM 2013	
SEM	S	unpreserved	28 days	G or P	10g	USEPA SW-846	
TOC	S	27° C	28 days	G or P	10g	USEPA 9060/NEPM 2013	
PCBs	S	none	14 days	G	20g	USEPA QA Manual 2016	
Chloride, sulphate, fluoride, orthophosphate	S	27° C	28 days	G or P	20g	USEPA 300.0/NEPM 2013	
TON	S	27° C	26 days	G or P	20g	In House	
Hex Cr	S	none	28 days	G or P	20g	USEPA QA Manual 2016/NEPM 2013	
Cyanides	S	27° C	14 days	G or P	10g	USEPA QA Manual 2016/NEPM 2013	
LOI	S	none	28 days	G or P	10g	USEPA 9060	
Total Sulphate	S	none	28 days	G or P	10g	NEPM 2013	
WSB	S	none	14 days	G or P	10g	In House	
Ammonia/Amm N	S	27° C	14 days	G or P	20g	In House	
Conductivity	S	27° C	14 days	G or P	40g	In House	
SVOCs	S	27° C	14 days	G	20g	In House	
Sulphide	S	27° C	7 days	G or P	60g	In House	

Gas Holding Times

Parameter	Holding Time	Standard
Gases - Tedlar Bag	48 Hours	USEPA TO-15
Gases – Silco-Cans	30 days	USEPA TO-15/ Storage Stability of VOC in Silico Canisters
Gases – BottleVac	30 days	USEPA TO-15/ Storage stability of VOC's in bottle Vacs

Product Holding Times

Parameter	Holding Time	Standard
Whole Oil	14 days	USEPA 8015B 1996 / SW 846 2014