Oct 10

STANDARD METHOD REPORTING LIMITS FOR SELECTED INORGANIC DETERMINANDS

Chemtest
The right chemistry to deliver results

DETERMINANDS BY INDUCTIVELY COUPLED PLASMA – OPTICAL EMISSION SPECTROSCOPY (ICP-OES)

SOP	Determinand	Water	Units	Soil	Units	SOP	Determinand	Water	Units	Soil	Units
2120	boron (water soluble)	n/a	-	0.4	mg kg^{-1}	2430	phosphorus (total)	n/a	-	50	mg kg^{-1}
2120	chromium [VI] (screen)	n/a	-	0.5	mg kg^{-1}	2430	sulphate (total)	n/a	-	0.01	%
2120	magnesium (extractable)	n/a	-	0.01	g l^{-1}	1/2120	sulphate (water soluble)	10	mg l^{-1}	0.01	g l^{-1}

DETERMINANDS BY COLORIMETRY (AQUAKEM)

1/2220	fluoride	0.05	mg l^{-1}	0.1	mg kg^{-1}	1220	alkalinity	10	mg l^{-1}	n/a	-
1/2220	chloride	2.0	mg l^{-1}	0.001	g l^{-1}	1220/2425	ammonium	0.01	mg l^{-1}	2.0	mg kg^{-1}
1/2220	nitrite	0.02	mg l^{-1}	0.1	mg kg^{-1}	1/2320	sulphide	0.05	mg l^{-1}	0.5	mg kg^{-1}
1/2220	nitrate	0.5	mg l^{-1}	0.01	g l^{-1}	1470	iron	20	ug l^{-1}	n/a	-
1/2220	phosphate	0.2	mg l^{-1}	0.4	mg kg^{-1}	1/2490	hexavalent chromium	0.05	mg l^{-1}	0.5	mg kg^{-1}
1/2220	sulphate	1.0	mg l^{-1}	n/a	-						

MISCELLANEOUS INORGANIC DETERMINANDS

1265	acidity	5	mg l^{-1}	n/a	-	1/2020	electrical conductivity (EC)	1.0	µS cm^{-1}	1.0	µS cm^{-1}
1220	acid neutralisation capacity (ANC)	n/a	-	0.002	mol kg^{-1}	1270	hardness	15	mg l^{-1}	n/a	-
1260	alkalinity	5	mg l^{-1}	n/a	-	2610	loss on ignition (LOI)	n/a	-	0.1	%
1090	biochemical oxygen demand (BOD)	1	mg l^{-1}	n/a	-	2030	moisture content	n/a	-	0.1	%
1100	chemical oxygen demand (COD)	10	mg l^{-1}	n/a	-	1150	dissolved oxygen (DO)	1.0	mg l^{-1}	n/a	-
1290/2300	cyanide (complex)	0.05	mg l^{-1}	0.5	mg kg^{-1}	2180	sulphur (elemental)	n/a	-	1.0	mg kg^{-1}
1310/2300	cyanide (free)	0.05	mg l^{-1}	0.5	mg kg^{-1}	2175	total sulphur	n/a	-	0.01	%
1300/2300	cyanide (total)	0.05	mg l^{-1}	0.5	mg kg^{-1}	1030	total suspended solids (TSS)	5	mg l^{-1}	n/a	-
1330/2300	thiocyanate	0.5	mg l^{-1}	5.0	mg kg^{-1}	1040	total dissolved solids (TDS)	1.0	mg l^{-1}	n/a	-

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