

Schedule of Accreditation



Organisation Name	TMS Environment Ltd
Trading As	
INAB Reg No	150T
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Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	16/02/2004
Scope Classification	Biological and Veterinary Testing
Scope Classification	Chemical Testing
Services available to the public ¹	Yes

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)

	Name	Address
1	Head Office	53 Broomhill Drive, Tallaght, Dublin, D24

Scope of Accreditation

Head Office

Biological and Veterinary Testing

Category: A

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference	
803 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of bacteria	Enumeration of E Coli and coliforms using the Colilert Method	Colilert, MPN	Environmental waters Waters- marine bathing water Waters - swimming pools, lagoons, lakes, canals Waters - wastewaters	Colilert System, Fluorescence Equipment	Documented in house procedure QP-Micro-2012 based on IS EN ISO 9308-2:2014	
	Enumeration of Enterococci	Enterolert, MPN	Environmental water Water - Marine, Bathing Water, Waters -Swimming pools Lagoons Lakes, Canals Waters - wastewaters	Enterolert System	Documented Inhouse procedure QP-Micro-2013 based on ISO 7899-3:2025	

Head Office

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	BOD	O2	1-15000 mg/l	Sewage trade	5 day incubation and DO meter	QP-CHEM-2016 based on APHA 5210
			1-300 mg/l	Potable, steam, Bore, Surface Water	5 day incubation and DO Meter	QP-CHEM-2016 based on APHA 5210
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	COD		20-150000O2mg/L	Sewage, Trade	Spectrophotometry	QP-CHEM-2065 based on APHA 5221
			5-1500 O2mg/l	Potable, Steam , Bore, Surface	Spectrophotometry	QP-CHEM-2065 based on APHA 5220
766 Environmental testing (inc waters) - .04 Organic	Semi Volatile Organic Compounds by GCMS	Total hexachlorocyclohexanes by calculation	Not Applicable	Ground water, surface water, Sewage, trade effluent, Potable, Bore, Steam	GC, GCMS	QP-CHEM-2020
		Total PAH by calculation	Not Applicable	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
		Total SVOCs by calculation	Not Applicable	Ground water, surface water, Sewage, trade effluent, Potable, Bore, Steam	GCMS	QP-CHEM-2020

Semi Volatile Organic Compounds by GCMS ** 1,2,3,4	1,2,4-trichlorobenzene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	1,2-dichlorobenzene	0.6 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	1,3-dichlorobenzene	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	1,4-dichlorobenzene	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	1-methylnaphthalene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	2,3,4,6-tetrachlorophenol	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	2,3,5,6-tetrachlorophenol	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	2,4,5-trichlorophenol	0.6 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	2,4,6-trichlorophenol	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

2,4-dinitrotoluene	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
2,6-dinitrotoluene	0.8 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
2-chloronaphthalene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
2-methylnaphthalene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
2-nitrophenol	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
4-bromophenyl Phenyl Ether	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
4-chlorophenylphenyl Ether	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
a-BHC	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Acenaphthene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

Acenaphthylene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Aldrin	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Anthracene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Azobenzene	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
b-BHC	0.8 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Benzo[a]anthracene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Benzo[a]pyrene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Benzo[b]fluoranthene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Benzo[ghi]perylene	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

Benzo[k]fluoranthene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Bis(2-chloro-1-methylethyl) Ether	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Bis(2-chloroethoxy)methane	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Carbazole	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Chrysene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
cis-Chlordane	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
d-BHC	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Dibenz[a,h]anthracene	0.6 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Dibenzofuran	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

Dieldrin	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Diethyl Phthalate	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Dimethyl Phthalate	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Diphenylamine	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Endosulfan I	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Endosulfan II	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Endosulfan Sulfate	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Endrin Aldehyde	0.9 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Endrin Ketone	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

Fluoranthene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Fluorene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
g-BHC (Lindan)	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Heptachlor	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Heptachlor Epoxide Isomer B	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Hexachlorobenzene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Hexachlorobutadiene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Hexachloroethane	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Indeno[1,2,3-cd]pyrene	0.6 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

Isophorone	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Naphthalene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Nitrobenzene	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
N-nitrosodi-n-propylamine	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
p,p'-DDD	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
p,p'-DDE	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
p,p'-DDT	0.5 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Pentachlorophenol	0.7 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Perylene	0.2 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020

	Phenanthrene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	Pyrene	0.3 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
	trans-Chlordane	0.4 to 100 ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	GCMS	QP-CHEM-2020
Volatile Organic Compounds (VOCs)	Total hexachlorocyclohexanes by calculation, with analysis in an accredited laboratory	Range depends on accredited laboratory range for analysis	Groundwater, Surface water, Sewage, Trade , potable, bore, steam	GC, GCMS	QP-CHEM-2022
	Total trichlorobenzenes by calculation, with analysis in an accredited laboratory	Range depends on accredited laboratory range for analysis	Groundwater, Surface water, Sewage, Trade , potable, bore, steam	GC, GCMS	QP-CHEM-2022
	Total xylenes by calculation, with analysis in an accredited laboratory	Range depends on accredited laboratory range for analysis	Groundwater, Surface water, Sewage, Trade , potable, bore, steam	GC, GCMS	QP-CHEM-2022
Volatile Organic Compounds by GCMS	Total VOCs by calculation	Not Applicable	Ground water, surface water, Sewage, trade effluent, Potable, Bore, Steam	Head Space GCMS	QP-CHEM-2022
Volatile Organic Compounds by GCMS ** 1,2,3,4	1,1,1,2- Tetrachloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

1,1,1-Trichloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,1,2,2-Tetrachloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,1,2-Trichloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,1-Dichloro-1-propene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,1-Dichloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,1-Dichloroethene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2,3-Trichlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2,3-Trichloropropane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2,4-Trichlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

1,2,4-Trimethylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dibromo-3-Chloropropane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dibromoethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dichloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dichloroethene E	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dichloroethene Z	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dichloropropane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,3,5-Trimethylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,3-Dichlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

1,3-Dichloropropane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,3-Dichloropropene E	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,3-Dichloropropene Z	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,4-Dichlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
1,2-Dichlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
2-Chlorotoluene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
4-Chlorotoluene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Benzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Bromobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

Bromochloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Bromodichloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Chlorobenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Chloroethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Chloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Cumene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Cymene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Dibromochloromethan	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Dibromomethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

Dichlorodifluoromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Dichloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Ethylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Fluorotrichloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Hexachloro-1,3-Butadiene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
m-Xylene + p-Xylene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Naphthalene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
n-Butylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
n-Propylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

o-Xylene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
sec-Butylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Styrene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Tert-Butylbenzene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Tetrachloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Toluene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Tribromomethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Trichloroethene	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022
Trichloromethane	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022

		Vinylchloride	0.25 to 100ug/L (extended by dilution)	Drinking Water, Groundwater, Surface Water, Effluent	Head Space GCMS	QP-CHEM-2022	
766 Environmental testing (inc waters) - .05 Inorganic	Alkalinity	CaCO3	1.0 to 3000 mg/L	Potable, Steam , Bore, Surface	Potentiometric Titration	QP-CHEM-2012 based on APHA 2320B	
	Ammonia	N	0.02-200 mg/l	Potable, steam,Bore, Surface Sewage Trade	Spectrometry	QP-CHEM-2037 based on APHA 4500 NH3F	
	Analysis of inorganics by spectrophotometry	Free cyanide		5 to 120ug/L CN (extended by dilution)	Treated Sewage Effluent	Spectrophotometry	In-house method QP- CHEM-2072 based on APHA 4500-CN- E. Colorimetric Method
		Total Hardness		7 to 300mg/L CaCO3 (extended by dilution)	Surface water and Sewage	Auto analyser - Spectrophotometry	In-house method QP- CHEM-2109 based on APHA 2340 A
	Auto-analyser Analysis of inorganics by spectrophotometry	Ammonia		0.01 - 200 mg/L NH3-N (extended by dilution)	Bore, groundwater, surface water	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2037 based on APHA 4500 NH3 F
				0.01 - 240 mg/L NH3 (extended by dilution)	Bore, groundwater, surface water	Calculation	Inhouse method QP- CHEM-2037 based on APHA 4500 NH3 F
				0.01 - 257 mg/L NH4 (extended by dilution)	Bore, groundwater, surface water	Calculation	Inhouse method QP- CHEM-2037 based on APHA 4500 NH3 F
				0.02 - 200 mg/L NH3-N (extended by dilution)	Sewage	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2037 based on APHA 4500 NH3 F
				0.024 - 240 mg/L NH3 (extended by dilution)	Sewage	Calculation	Inhouse method QP- CHEM-2037 based on APHA 4500 NH3 F

	0.026 - 257 mg/L NH4 (extended by dilution)	Sewage	Calculation	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.05 - 200 mg/L NH3-N (extended by dilution)	Potable	Auto analyser - Spectrophotometry	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.06 - 240 mg/L NH3 (extended by dilution)	Potable	Calculation	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.06 - 257 mg/L NH4 (extended by dilution)	Potable	Calculation	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.1 - 200 mg/L NH3-N (extended by dilution)	Trade effluent	Auto analyser - Spectrophotometry	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.1 - 240 mg/L NH3 (extended by dilution)	Trade effluent	Calculation	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
	0.13 - 257 mg/L NH4 (extended by dilution)	Trade effluent	Calculation	Inhouse method QP-CHEM-2037 based on APHA 4500 NH3 F
Chloride	1 to 50,000mg/L (extended by dilution)	Bore, Groundwater, Surface water, Sewage, Trade	Auto analyser - Spectrophotometry	QP-CHEM-2013 based on APHA 4500E
Fluoride	0.5 – 100 mg/L F	Bore, Groundwater, Surface water, Sewage, Trade	Auto analyser - Spectrophotometry	Inhouse method QP-CHEM-2013 based on APHA 4500-F-
Nitrate by calculation	0.05 - 100 mg/L NO3-N (extended by dilution)	Groundwater, Surface water, Sewage	Calculation	QP-CHEM-2045 based on APHA 4500 NO3-H
	0.22 - 440mg/L NO3-NO3 (extended by dilution)	Groundwater, Surface water, Sewage	Calculation	QP-CHEM-2045 based on APHA 4500 NO3-H

Nitrite	0.002 - 1.6 mg/L NO2-N	Groundwater, Surface water, Sewage,	Auto analyser - Spectrophotometry	QP-CHEM-2045 based on APHA 4500 NO2-B
Nitrite by calculation	0.007 – 5.25mg/L NO2-NO2	Groundwater, Surface water, Sewage	Calculation	QP-CHEM-2045 based on APHA 4500 NO2-B
orthophosphate	0.002 - 200 mg/L PO4-P	Ground water, Trade effluent	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.006 - 600 mg/L PO4-PO4	Ground water, Trade effluent	Calculation	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.008 - 200 mg/L PO4-P	Surface water	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.01 - 200 mg/L PO4-P	Potable	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.024 - 600 mg/L PO4-PO4	Surface water	Calculation	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.03 - 600 mg/L PO4-PO4	Potable	Calculation	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.04 - 200 mg/L PO4-P	Sewage	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
	0.12 - 600 mg/L PO4-PO4	Sewage	Calculation	Inhouse method QP- CHEM-2040 based on APHA 4500-P E
Sulfate	2—5000 mg /L SO4	Surface water, groundwater	Auto analyser - Spectrophotometry	Inhouse method QP- CHEM-2013 based on APHA 4500-SO42-

		Total Oxidised Nitrogen (TON)	0.2 - 100 mg/L (extended by dilution)	Groundwater, Surface water, Sewage	Auto analyser - Spectrophotometry	QP-CHEM-2045 based on APHA 4500
	Chloride	Cl	1-20000 mgCl/L	Potable, Steam , Bore, Surface, Sewage, Trade	Titration	QP-CHEM-2035 based on APHA 4500-CL B
	Colour	PT	1-50 Pt/l	Potable, Steam , Bore, Surface	Spectrophotometry	QP-CHEM-2064 based on APHA 2120
	Fluoride	F	0.02-100 mg/l	Potable, Steam , Bore, Surface	Ion Selective Electrode	QP-CHEM-2036 based on APHA 4500-C
	Nitrate	Nitrate	1.00 -1000mg/l NO3	Potable, Steam, Bore, Surface, Sewage Trade	Ion Selective Electrode	QP-CHEM-2043 based on APHA 4500 NO3D
	Orthophosphate	P	0.02-160 mg/l	Potable Steam,Bore, Surface Sewage Trade	Spectrometry	QP-CHEM-2040 based on APHA 4500 PE
	Sulfate	Sulfate	2-1000mg/l	Potable, Steam , Bore, Surface	Turbidimetry	QP-CHEM-2050 based on APHA 4500E
				2-2000mg/l	Sewage, Trade	Turbidimetry
	Turbidity	NTU	0.02 to 1000 NTU	Potable, Steam , Bore, Surface	Turbidity Meter	QP-CHEM-2014 based on APHA 2130B
767 Physical test/measurement - .01 pH	pH	pH	2-12 pH units	Potable, Steam , Bore, Surface, Sewage, Trade	pH Meter	QP-CHEM-2007 based on APHA 4500
767 Physical test/measurement - .02 Conductivity	Conductivity	Conductivity at 20C	100-12880 uS/cm	Potable, Steam , Bore, Surface, Sewage, Trade	Conductivity Meter	QP-CHEM-2008 based on APHA 2510B

		Conductivity at 25C by calculation	111 - 14,297 uS/cm	Potable, Steam, Bore, Groundwater, Surface water, Sewage, Trade	Conductivity Meter	QP-CHEM-2008 based on APHA 2510B
767 Physical test/measurement - .03 Suspended Solids	Suspended solids	Suspended solids	3-200mg/l	Potable, Steam , Bore, Surface	Gravimetric	QP-CHEM-2002 based on APHA 2540
			3-8000mg/l	Sewage, Trade	Gravimetric	QP-CHEM-2002 based on APHA 2540
770 Gases and aerosols - .07 Other gases and mixtures	Assay determination of carbon dioxide	Carbon dioxide	0.0036-99.8 (extended by dilution)	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
	Assay determination of carbon monoxide	Carbon monoxide	0.0068-99..99 (extended by dilution)	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
	Assay determination of oxygen	Oxygen	0.0011-99.999 (extended by dilution)	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
	Assay determination of hydrogen	Hydrogen	0.01-99.99 (extended by dilution)	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
	Assay determination of nitrogen	Nitrogen	0.0075-99.9991 (extended by dilution)	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
	Identification of carbon dioxide	Carbon dioxide	N/A	Gases	GC TCD	In house method QP-CHEM 2110 based GC-TCD
	Identification of carbon monoxide	Carbon monoxide	N/A	Gases	GC TCD	In house method QP-CHEM 2110 based GC-TCD
	Identification of hydrogen	Hydrogen	N/A	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD

Identification of nitrogen	Nitrogen	N/A	Gases	GC TCD	In house method QP-CHEM 2110 based on GC-TCD
Identification of oxygen	Oxygen	N/A	Gases	GC TCD	In house method QP-CHEM 2110 based GC-TCD
Natural gas and biogas	C6+ Hydrocarbons	0.01 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP-CHEM-2107 in accordance with ISO 6974
	Calculated values from composition Sooting index Incomplete combustion factor	Range depends on composition of gas	Natural gas and biogas		In-house method QP-CHEM-2107. Values calculated from composition and physical properties according to ISO 6976:1995 on a real or ideal gas basis assuming mixture is dry (free from water) Based on UK Statutory Instrument 1996 No.551 Gas Safety (Management) Regulation 1996 - Regulation 8 (Schedule 3) - Content and other Characteristics of Gas - Part III- Interpretation
	Calculated values from composition gross calorific value net calorific value relative density density gross Wobbe index net Wobbe	Range depends on composition of gas	Natural gas and biogas	Calculated	In-house method QP-CHEM-2107. Values calculated according ro ISO 6976:2016 on a real or ideal gas basis assuming mixture is dry (fre from

index molar mass compression factor				water) Combustion properties can be expressed in units of the Joule (J) or in kilowatt hours (kWh)
Calculated values from composition Sooting index Incomplete combustion factor	Range depends on composition of gas	Natural gas and biogas	Calculated	In-house method QP-CHEM-2107. Values calculated from composition and physical properties according to ISO 6976:2016 on a real or ideal gas basis assuming mixture is dry (free from water) Based on UK Statutory Instrument 1996 No.551 Gas Safety (Management) regulation 1996 - Regulation 8 (Schedule 3) - Content and other Characteristics of Gas- Part III- Interpretation
Calculated values from composition superior calorific value inferior calorific value relative density density gross Wobble index net Wobble index molar mass compression factor	Range depends on composition of gas	Natural gas and biogas	Calculated	In-house method QP-CHEM-2107. Values calculated according to ISO 6976:1995 on a real or ideal gas basis assuming mixture is dry (free from water) Combustion properties can be expressed in units of the Joule (J) or in kilowatt hours (kWh)

Carbon dioxide	0.0154 to 2.5% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Ethane	0.01849 to 12% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Hydrocarbon dewpoint and Phase Diagram	Range depends on composition of gas	Natural gas and biogas	Calculated	In-house method QP- CHEM-21017 Calculated from composition in accordance with ISO23874
Hydrogen	0.0063 to 0.1017% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Isobutane	0.00061 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Isopentane	0.00061 to 1% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Methane	0.30425 to 99.99% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
n-butane	0.00061 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Neopentane	0.00061 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in

				accordance with ISO 6974
	n-hexane	0.00061 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	Nitrogen	0.031 to 99.9992% mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	n-pentane	0.00061 to 0.1% mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	Oxygen	0.0123 to 0.9947% mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	Propane	0.00612 to 1.009% mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
Natural gas and biogas	Carbon dioxide	0.0036 to 5 % mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	Ethane	0.0067 to 12 % mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974
	Hydrogen	0.0085 to 100 % mol/mol	Natural gas and biogas	GC TCD and GC FID In-house method QP-CHEM-2107 in accordance with ISO 6974

Isobutane	0.00090 to 0.12% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Isopentane	0.0011 to 0.15% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Methane	1.37 to 99.99% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
n-butane	0.00090 to 0.13% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Neopentane	0.00070 to 0.11% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
n-hexane	0.00060 to 0.11% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Nitrogen	0.0075 to 99.9992% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
n-pentane	0.0009 to 0.13% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Oxygen	0.0011 to 0.99% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974

	Propane	0.0028 to 1.11% mol/mol	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974
Natural gas and biogas analysis	C6+ hydrocarbons	0 to 0.1%	Natural gas and biogas	GC TCD and GC FID	In-house method QP- CHEM-2107 in accordance with ISO 6974:4, ISO 6974:5, ISO 6974:6 and calculation from the sum of all hydrocarbons containing 6 carbons or greater.
	GNI Odour Index	0.4 to 2.5	Natural gas and biogas	GC PFPD	Calculated using In- house method QP- CHEM-2080 from measured values of dimethyl sulfide and tertiary butyl mercaptan
	Total Inerts	0 to 100%	Natural gas and biogas	GC TCD and GC FID	Calculation of total Inert gases from the sum of detected levels of helium, argon, oxygen, nitrogen and carbon dioxide using In-house method QP- CHEM-2107 in accordance with ISO 6974:4, ISO 6974:5, ISO 6974:6 .
	Total sulfur	0 to 100%	Natural gas and biogas	GC PFPD	Calculated using in- house method QP- CHEM-2080 from the determination of sulfur

						compounds using GCPFPD
	Odorants in Natural Gas	Dimethyl Sulfide	0.03 to 3.94 μmol/mol 0.08 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 based as ASTM D5504-20 and ASTM D6228-19
		t-butyl mercaptan	0.06 to 2.71 μmol/mol 0.23 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 based as ASTM D5504-20 and ASTM D6228-19
782 Workplace environment and hazards - .03 Inspirable dust	Weighing Particulate Matter inhalable dust	dust	0.01-200 mg	Occupational	Gravimetric	QP-CHEM-2055 Method 14/4
782 Workplace environment and hazards - .04 Respirable dust			0.01-200 mg	Occupational	Gravimetric	QP-CHEM-2055 Method 14/4
797 Miscellaneous materials and products - .03 Other tests	Analysis of a range of Sulfur Compounds in Natural Gas and biogas	Carbonyl Sulfide	0.19 to 10.14 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
			0.63 to 10.14 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
		Dimethyl Sulfide	0.03 to 3.94 μmol/mol 0.08 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
			0.03 to 3.94 μmol/mol 0.08 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
		Ethyl mercaptan	0.19 to 10.23 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in

				accordance with ISO6974
	0.64 to 10.23 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
Hydrogen Sulfide	0.23 to 9.95 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
	0.62 to 9.95 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
Iso-propyl mercaptan	0.21 to 10.23 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
	0.54 to 10.23 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
Methyl mercaptan	0.15 to 9.88 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
	0.62 to 9.88 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
n-butyl mercaptan	0.06 to 5.16 μmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974

			0.13 to 5.16 µmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
		n-propyl mercaptan	0.16 to 10.26 µmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
			0.64 to 10.26 µmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
		t-butyl mercaptan	0.06 to 2.71 µmol/mol 0.23 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
			0.06 to 2.71 µmol/mol 0.23 to 10 mg/m3	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
		Total Sulfur as S	0.58 to 38.62 µmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
			2.41 to 38.62 µmol/mol	Gaseous Fuels	GC PFPD	In-house method QP-CHEM-2080 in accordance with ISO6974
	Weighing Particulate Matter filters and rinses	dust	0.1 - 1000 mg	Industrial emissions	Gravimetric	QP-CHEM-2105 EN 13284-1 2002 & ISO 9096:2017
798 Sampling	Grab Sampling of natural gas and biomethane	Gas	Depends on accredited lab	Natural gas , biomethane	Sampling	QP-SITE-2035

Sampling of natural gas and biomethane using absorption in accordance with EN14791 and analysis in an accredited lab	Ammonia	Depends on accredited lab	Natural gas, biomethane	Sampling	QP-SITE-2013
Sampling of natural gas and biomethane using adsorption in accordance with EN ISO 16017-1 and analysis in an accredited lab	Organics	Depends on accredited lab	Natural gas, biomethane	Sampling	QP-SITE-2016

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Note 1 - Range may be extended for the test

Note 2 – New parameters/tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment/kits where the underlying methodology does not change

For further details please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.

Head Office

Chemical Testing

Category: B

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
770 Gases and aerosols - .04 Industrial fumes and emissions	Total Organic Carbon	TOC	0.2-1600mg/m ³	Industrial emissions	Flame Ionisation Detector	QP_SITE-2025 based in EN12619
798 Sampling	Bathing water sampling			Coastal water	Grabs	QP-SITE-6012 based on ISO 5667-3 and ISO 19458
	Conductivity	Conductivity at 20C by calculation	10- 100,000uS/cm	Potable, Steam, Bore, Groundwater, Surface water, Sewage, Trade	Conductivity Meter	QP-MEAS-2009
		Conductivity at 25C	9-90000 uS/cm	Potable, Steam , Purged Well, Surface, Lakes	Conductivity Meter	QP-MEAS-2009
	Dissolved Oxygen	O ₂	0.01 - 20 mg/lO ₂	Potable, Steam , Purged Well, Surface, Lakes	DO Meter	QP-MEAS-2019
			0.01-200 % O ₂	Potable, Steam , Purged Well, Surface, Lakes	DO Meter	QP-MEAS-2019
			0.5-13 mg/l	Potable stream purged well surface lakes	DO Meter	QP-MEAS-2019
	Drinking Water Sampling	Water Sampling				Qp-SITE -6003 based on ISO 5667-5

pH	pH	2-12 pH units	Potable, Steam , Purged Well, Surface, Lakes	pH Meter	QP-MEAS-2010 and 2011
Purged Well sampling	water				QP-SITE-6002 based on ISO 5667-11
Temperature	oC	0-40 C	Potable, Steam , Purged Well, Surface, Lakes	pH/Temp Meter	QP-MEAS- 2010 and 2011
Waste water sampling			Influent & effluent	Grabs	QP-SITE-6004 based on ISO 5667-10
Water sampling lakes, rivers, stream	water				QP-SITE-6001 based on ISO 5667-4 & -6

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