Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

Normec DETS Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil
	Total petroleum hydrocarbons: C8-C10 C8-C40 C10-C12 C10-C24 C10-C40 (total) C12-C16 C16-C21 C21-C40	E004 using solvent extraction followed by GC-FID
	Total petroleum hydrocarbons banded fractions for aliphatic and aromatic splits: Aliphatic Fractions: C8-C10 C10-C12 C12-C16 C16-C21 C21-C34 C16-C35 C10-C40 Aromatic Fractions: C8-C10 C10-C12 C12-C16 C16-C21 C21-C35	E004 using solvent extraction followed by GC-FID to MCERTS soils

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil
	Volatile Organic Compounds: (Compounds detailed in Table 1)	E001 using Head Space GC-MS (HS/GCMS)
	Semi Volatile Organic Compounds: (Compounds detailed in Table 2)	E006 using solvent extraction followed by GC-MS
	Polynuclear aromatic hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenz[a,h]anthracene Benzo(a)pyrene Benzo[ghi]perylene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Indeno[1,2,3-cd]pyrene Total PAH(16)-calculation	E005 using solvent extraction followed by GC-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil
	Elemental analysis: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Vanadium Zinc	E002 using Inductively Coupled plasma Spectrophotometry (ICP-OES)
	Acid Extractable Sulphate	E013 using Inductively Coupled plasma Spectrophotometry (ICP-OES)
	pH	E007 using pH Meter
	Water soluble: Chloride Nitrate Sulphate	E009 using ion chromatography
	Total Organic Carbon Soils Organic Matter (by calculation) Fraction Organic Matter (by calculation	E010 based on Walkely-Black methodology
	Ammonia	E029 using 1M KCl extraction and Gallery discrete colorimetric analysis
	Total Organic Carbon	E027 by combustion
	Loss On Ignition	E019 by combustion and gravimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method (Non MCERTS)
	Total petroleum hydrocarbons: C8-C10 C8-C40 C10-C12 C10-C24 C10-C40 (total) C12-C16 C16-C21 C21-C40	E004 using solvent extraction followed by GC-FID
	Volatile Organic Compounds: (Compounds detailed in Table 1)	E001 using Head Space GC-MS (HS/GCMS
	Semi Volatile Organic Compounds: (Compounds detailed in Table 2)	E006 using solvent extraction followed by GC-MS
	Polynuclear aromatic hydrocarbons: Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenz[a,h]anthracene Benzo[ghi]perylene Chrysene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Total PAH(16)-calculation	E005 using solvent extraction followed by GC-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method Non MCERTS)
	Total Dutch 10 for Polynuclear aromatic hydrocarbons - calculation	E005 using solvent extraction Followed by GC-MS
	Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[k]fluoranthene Benzo[ghi]perylene Chrysene Fluoranthene Indeno[1,2,2-cd]pyrene Naphthalene Phenanthrene	
	Elemental analysis: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Vanadium Zinc	E002 using Inductively Coupled plasma Spectrophotometry (ICP-OES)
	pH	E007 using pH Meter

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	Chemical Tests (cont'd)	Documented In-House Method
Potable waters (non-regulatory), surface waters, ground waters, prepared leachates, deionised waters, purified waters (reverse osmosis), recreational / pool waters, seawater, effluent, landfill leachates	pH	E107 using pH meter
Potable waters (non-regulatory), surface waters, ground waters and prepared leachates	**Volatile Organic Compounds** (Compounds detailed in Table 1)	E101 using Head Space GC-MS
	Dissolved: Fluoride Chloride Nitrate Sulphate Bromide Nitrite	E109 using ion chromatography
Potable waters (non-regulatory), surface waters, ground waters and prepared leachates, process waters, purified water (reverse osmosis), recreational waters, sea waters	Ammonia	E126 using Gallery discrete colorimetric analysis
Potable waters (non-regulatory), surface waters, ground waters deionised water & prepared leachates	Free Cyanide Total Cyanide Phenol	E115 using Segmented Injection Flow Analyser (San ++)
Potable (non-regulatory), surface waters, ground waters, saline waters, effluents, purified waters, recreational waters, & prepared leachates	Chemical Oxygen Demand (COD)	E112 using sealed tube methodology and spectrophotometric determination (colorimetry)
Potable (non-regulatory), surface waters, ground waters, sea waters, effluents, purified waters, recreational waters & prepared leachates	Total Organic Carbon (TOC) Dissolved Organic Carbon (DOC)	E110 using high temperature catalytic combustion (Formacs Skalar Analyser)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method
Potable (non-regulatory), purified (DI & RO), surface, ground, recreational & saline waters, prepared & landfill leachates, and process waters	Total Alkalinity (to pH 4.5)	E103 using titration
Potable (non-regulatory), purified (DI & RO), surface, ground, recreational & saline waters, prepared & landfill leachates, and process waters	Electrical Conductivity (EC)	E123 using EC probe
Potable (non-regulatory), surface waters, ground waters, purified waters (deionised & reverse osmosis), recreational waters, and process waters	**Total & Dissolved Elements:** Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Lead Lithium Mercury Manganese Magnesium Molybdenum Nickel Potassium Selenium Sodium Strontium Thallium Tin Titanium Vanadium Zinc Total Hardness (by calculation)	E102 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method
Prepared Leachates	**Dissolved Elements:** Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Lead Lithium Mercury Manganese Magnesium Molybdenum Nickel Potassium Selenium Sodium Strontium Thallium Tin Titanium Vanadium Zinc Total Hardness (by calculation)	E102 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method
Potable (non-regulatory), surface waters, ground waters, purified waters (deionised & reverse osmosis), recreational waters, and effluents	**Total & Dissolved Elements:** Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Lead Lithium Mercury Manganese Magnesium Molybdenum Nickel Phosphorus Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium Zinc Total Hardness (by calculation)	E102 using ICP-OES
Purified water , potable (non regulatory), surface waters, ground waters, prepared leachates and final effluent	Biochemical Oxygen Demand	E133 by VELP pressure sensor heads

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method
Prepared leachates	**Dissolved Elements:** Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Lead Lithium Mercury Manganese Magnesium Molybdenum Nickel Phosphorus Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium Zinc Total Hardness (by calculation)	E102 using ICP-OES
END		

TABLE1: VOCs

Soils		Potable waters (non-regulatory), surface waters, ground waters and prepared leachates
E001, VOC (MCERTS)	**E001, VOC (ISO 17025)**	**E101 VOCs (ISO 17025)**
1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane	1,1,1-Trichloroethane	1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane
1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene
1,1-Dichloropropene	1,1-Dichloropropene	1,1-Dichloropropene
1,2,3-Trichloropropane	1,2,3-Trichloropropane	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane
1,2-Dichlorobenzene	1,2-Dichlorobenzene	1,2-Dichlorobenzene
1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane
1,2-Dichloropropane	1,2-Dichloropropane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene
1,3-Dichlorobenzene	1,3-Dichlorobenzene	1,3-Dichlorobenzene
1,3-Dichloropropane	1,3-Dichloropropane	1,3-Dichloropropane
1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene
2,2-Dichloropropane	2,2-Dichloropropane	2,2-Dichloropropane
2-Chlorotoluene	2-Chlorotoluene	2-Chlorotoluene
4-Chlorotolune	4-Chlorotolune	4-Chlorotoluene
Benzene	Benzene	Benzene
Bromobenzene	Bromobenzene	Bromobenzene
Bromochloromethane	Bromochloromethane	Bromochloromethane
Bromodichloromethane	Bromodichloromethane	Bromodichloromethane
Bromoform	Bromoform	Bromoform
Bromomethane	Bromomethane	Bromomethane
Carbon Tetrachloride	Carbon Tetrachloride	Carbon Tetrachloride
Chlorobenzene	Chlorobenzene	Chlorobenzene
Chloroethane	Chloroethane	Chloroethane
Chloroform	Chloroform	Chloroform
Chloromethane	Chloromethane	Chloromethane
cis-1,2-Dichloroethene	cis-1,2-Dichloroethene	cis-1,2-Dichloroethene
cis-1,3-Dichloropropene	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene
Dibromochloromethane	Dibromochloromethane	Dibromochloromethane
Dibromomethane	Dibromomethane	Dibromomethane
Dichlorodifluoromethane	Dichlorodifluoromethane	Dichlorodifluoromethane
Ethyl Benzene	Ethyl Benzene	Ethyl Benzene
Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene
Isopropylbenzene	Isopropylbenzene	Isopropylbenzene
p-Isopropyltoluene	p-Isopropyltoluene	p-Isopropyltoluene
n-Butylbenzene	n-Butylbenzene	n-Butylbenzene

Soils		Potable waters (non-regulatory), surface waters, ground waters and prepared leachates
n-Propylbenzene	n-Propylbenzene	n-Propylbenzene
sec-Butylbenzene	sec-Butylbenzene	sec-Butylbenzene
Methyl Tert-Butyl Ether	Methyl Tert-Butyl Ether	Methyl Tert-Butyl Ether
Tert-Amyl Methyl Ether	Tert-Amyl Methyl Ether	Tert-Amyl Methyl Ether
tert-Butylbenzene	tert-Butylbenzene	tert-Butylbenzene
Styrene	Styrene	Styrene
Tetrachloroethene	Tetrachloroethene	Tetrachloroethene
Toluene	Toluene	Toluene
trans-1,2-Dichloroethene	trans-1,2-Dichloroethene	trans-1,2-Dichloroethene
trans-1,3-Dichloropropene	trans-1,3-Dichloropropene	trans-1,3-Dichloropropene
Trichloroethene	Trichloroethene	Trichloroethene
Trichlorofluoromethane	Trichlorofluoromethane	Trichlorofluoromethane
o-Xylene	o-Xylene	o-Xylene
m,p-Xylene	m,p-Xylene	m,p-Xylene
Vinyl Chloride	Vinyl Chloride	Vinyl Chloride
End of this column	**End of this column**	**End of this column**

TABLE 2: SVOCs

Soils	
E006, SVOCs (MCERTS)	**E006, SVOCs (ISO 17025)**
2,4,5-Trichlorophenol	1,2,4-Trichlorobenzene
2,4,6-Trichlorophenol	1,2-Dichlorobenzene
2,4-Dichlorophenol	1,3-Dichlorobenzene
2,4-Dinitrotoluene	1,4-Dichlorobenzene
2,6-Dinitrotoluene	2,4,5-Trichlorophenol
2-Chloronaphthalene	2,4,6-Trichlorophenol
2-Methylnaphthalene	2,4-Dichlorophenol
4-Bromophenyl phenyl ether	2,4-Dimethylphenol
4-Chlorophenyl phenyl ether	2,4-Dinitrotoluene
Benzyl butyl phthalate	2,6-Dinitrotoluene
bis(2-chloroethoxy)methane	2-Chloronaphthalene
bis(2-chloroethyl)ether	2-Chlorophenol
bis(2-ethylhexyl)phthalate	2-Methylnaphthalene
Dibenzofuran	4-Bromophenyl phenyl ether
Diethyl phthalate	4-Chlorophenyl phenyl ether
Di-n-octyl phthalate	Benzyl butyl phthalate
Hexachlorobenzene	bis(2-chloroethoxy)methane
Hexachloroethane	bis(2-chloroethyl)ether
Nitrobenzene	bis(2-ethylhexyl)phthalate
p-Cresol	Carbazole
End of this column	Dibenzofuran
	Dibutyl phthalate
	Diethyl phthalate
	Di-n-octyl phthalate
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachloroethane
	Nitrobenzene
	p-Cresol
	End of this column