

# Accreditation Scope

**Fugro Middle East, NAL 152  
Testing Laboratory, (ISO/IEC 17025:2017)**

**Mussafah Industrial Area, Abu Dhabi, UAE**

**Issue Date: 14-02-2021**

**Expiry Date: 13-02-2024**

**Issue No: 01**

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client- site (S)
Construction Materials	Soil	Determination of dry density/moisture content relationship using 4.5 kg Rammer	BS 1377-4:1990 AMD 13925-2002 Cl. 3.5 & 3.6	P
		In Situ Density test by Sand Replacement Method (Large pouring cylinder).	BS 1377-9:1990 AMD 8264-1995 Cl. 2.2	S
		Determination of California Bearing Ratio	BS 1377-4:1990 AMD 13925-2002 Cl.7	P
	Concrete	Determination of Compressive strength of concrete Cubes	*BS 1881-116:1983: AMD 6720 :1991	P
		Determination of density of hardened concrete	*BS 1881:1983-114 – AMD. 6721:1991	
		Method of normal curing of test specimens (20°C method)	*BS 1881:1983-111 AMD. 9387:1997	
		Determination of Compressive strength of Hardened Concrete	BS EN 12390-3:2019	
		Determination of density of hardened concrete	BS EN 12390-7:2019	
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1:2012	

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Geotechnical	Site Work	Determination of the penetration resistance using the split-barrel sampler (Standard penetration test - SPT)	*BS 1377-9:1990; AMD 8264-1995, Cl. 3.3	S
		Soil Sampling	ISO 22475-1:2006, Cl.6	
		Ground Water Sampling	ISO 22475-1:2006, Cl. 8	
		Ground water level management	BS EN ISO 22475-1:2006, Cl. 9 & 10	
Chemical	Ground water	pH of ground water	BS 1377-3:2018, Cl. 12	P
		Sulphate content of ground water	BS 1377-3:2018, Cl. 7.2, 7.6, 7.8	
		Chloride content of ground water	BS 1377-3:2018, Cl. 9.2	
	Soil	Acid soluble sulphate content of soil	BS 1377-3:2018, Cl. 7.2, 7.6, 7.9	P
		Water soluble sulphate content of soil	BS 1377-3:2018, Cl. 7.2, 7.3, 7.6	
		Acid soluble chloride content of soil	BS 1377-3:2018, Cl. 9.3	
		Water soluble chloride content of soil	BS 1377-3:2018, Cl. 9.2	
		pH of soil	BS 1377-3:2018, Cl. 12	
Carbonate content of soil, as percentage of CO <sub>2</sub>	BS 1377-3:2018, Cl. 8.3			

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Geotechnical	Soil	Determination of Liquid limit, Plastic Limit and Plasticity Index (Casagrande)	*BS 1377-2:1990, AMD 9027:1996, Cl. 4.5/5.3/5.4	P
		Liquid Limit, plastic Limit and Plasticity Index	BS EN ISO 17892-12:2018	
		Determination of Particle Size Distribution	*BS 1377-2:1990, AMD 9027:1996, Cl. 9.2 / 9.3	
		Determination of Particle Size Distribution	BS EN ISO 17892-4:2016, Cl. 4.2, 5.2 & 6.1	P
		Particle size distribution of fine soils by Hydrometer method	*BS 1377-2 :1990 AMD 9027:1996, Cl. 9.5	
		Sedimentation by the hydrometer method	BS EN ISO 17892-4:2016	
		Determination of moisture content	*BS 1377-2:1990; AMD 9027:1996, Cl.3.2	
		Determination of water content	BS EN ISO 17892-1:2014	
		Determination of particle density	BS EN ISO 17892-3:2015, Cl. 5.1	

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Geotechnical	Rock	Preparing Rock Core Specimens and Determining Dimensional and Shape Tolerances	ASTM D4543-2019	P	
		Unconfined Compressive Strength Test	ASTM D7012:2014 e1 Method C		
		Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D5731-16		
		Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D 2216- 19		
	Soil & Rock Description	Rock quality designation	BS 5930 :2015, Section 6 BS EN ISO 22475-1:2006, Cl. 3.3.14.2	P / S	
		Description of soils	BS 5930:2015, Section 6 *BS EN ISO 14688-1: 2004+ A1:2013 *BS EN ISO 14688-2: 2004+ A1:2013		
		Description & Classification of rocks	*BS EN ISO 14689 -1:2003		
	Reporting	Reporting	BS 5930:2015, Section 10, Cl. 63	P	
	<b>END</b>				

\* Standards are superseded / replaced / withdrawn.