

Accreditation Scope

Lotus Soil & Constructional Materials Inspection Est., (NAL 093)
Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah Industrial Area, West 4, Abu Dhabi, UAE

Issue Date: 07-10-2021

Expiry Date: 06-10-2024

Issue No: 05

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)
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Geotechnical	Soil	Standard penetration test (SPT)	* BS 1377 part 9:1990 Cl. 3.3 AMD 8264:1995	S
		Soil Sampling	BS 5930:2015 Sec. 4, Cl. 25.4	
	Soil & Rock	Description of Soils	BS 5930:2015; Sec. 6, Cl. 33	S / P
		Rotary core samples (Rock Core Sampling)	BS 5930:2015: Sec. 4, Cl. 25.7	
	Rock	Description of Rocks	BS 5930:2015 Sec. 6, Cl. 36	S / P
		Rock Quality Designation (RQD) and Core Recovery (CR)	BS 5930:2015 Sec. 6, Cl. 36	
	Ground Water	Groundwater monitoring and sampling	BS 5930:2015, Sec. 4, Cl. 26	S
		Groundwater Level Measurements	BS 5930:2015 Sec. 8, Cl. 52	
	Soil	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D 6913/ D6913M-17	P
		Particle-Size Analysis of Soils by Hydrometer	* ASTM D 422-:63 (R2007e2)	
		Liquid limit, plastic limit, and plasticity index of Soils	ASTM D 4318-17 ^{e1}	
	Soil & Rock	Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216-19	P
	Rock	Unconfined Compressive Strength of Rock Core Specimen	ASTM D 7012-14 ^{e1} , Method C	P
		Preparation of rock core	ASTM D4543-19	
	Reporting	Reporting	BS 5930:2015 Sec. 10, Cl. 63	P

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Chemical	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	
	Ground Water	pH of ground water	BS 1377-3:2018; Cl.12	
		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. 9.2.7	

END

*Not current version of the standard. Standards are superseded / withdrawn.