



# Accreditation Scope

## Liwa Laboratories for Soil Testing LLC, NAL 175 Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M35 – Abu Dhabi, UAE

Issue Date: 03-01-2022

Expiry Date: 02-01-2025

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)
Geotechnical	Soil and Rock	Determination of the penetration resistance using the split-barrel sampler (Standard Penetration Test-SPT)	BS 1377 Part 9 :1990 – AMD 8264-1995, Cl. 3.3	S
		Geotechnical investigation and testing- Field Testing Standard penetration test (SPT)	BS 5930:2015	
		Soil Sampling	BS 5930:2015; Sec. 4, Cl. 25.6	
	Ground Water	Ground Water Measurement	BS 5930:2015; Sec. 4, Cl. 26.1 to 26.3 & Sec. 8, Cl. 52.3	S
		Ground Water Sampling	BS 5930:2015; Sec. 4, Cl. 26.4	
	Soil and Rock	Description of Soils	BS 5930:2015; Sec. 6, Cl. 33	P / S
		Description of Rocks	BS 5930:2015; Sec. 6, Cl. 36	
		Rock Quality Designation (RQD)	BS 5930:2015; Sec. 6, Cl. 36.4	
		Rock Sampling Rock Core Recovery (RCR)	BS 5930:2015; Sec. 4, Cl. 25.7	
		Determination of Water (moisture) Content of Soil and Rock Sample	ASTM D 2216-19	P
	Soil	Particle Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D 6913/D6913M-17	P
		Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D 4318-17 <sup>E1</sup>	
		Particle Size Analysis of Soil - Hydrometer	ASTM D 7928-21 <sup>E1</sup>	
	Rock	Unconfined Compressive Strength	ASTM D7012-14 <sup>e1</sup> ; Method C	P
Preparation of Rock Core		ASTM D 4543-19		



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Chemical	Soil	Acid Soluble Chloride Content of Soil	BS1377-3:2018; Cl. 9.3	P
		Water Soluble Chloride Content of Soil	BS1377-3:2018; Cl. 9.2	
		Acid Soluble Sulphate Content of Soil	BS1377-3:2018; Cl. 7.2, 7.6, 7.9	
		Water Soluble Sulphate Content of Soil	BS1377-3:2018; Cl. 7.2, 7.3, 7.6	
		pH of Soil	BS1377-3:2018; Cl. 12	
	Ground Water	Chloride Content of Ground Water	BS1377-3:2018; Cl. 9.2	P
		Sulphate Content of Ground Water	BS1377-3:2018; Cl. 7.2, 7.6, 7.8	
		pH of Ground Water	BS1377-3:2018; Cl. 12	
Report	Ground Investigation	Code of practice for ground investigations- Reporting	BS 5930:2015; Sec. 10, Cl. 63	P
<b>END</b>				