



# Accreditation Scope

## Independent Soil Testing Laboratories LLC, NAL 135 Testing Laboratory, (ISO/IEC 17025:2017)

M10, W53, Mussafah, Abu Dhabi, UAE

Issue Date: 25-02-2022

Expiry Date: 08-09-2022

Issue No: 03

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)
Material Testing	Hardened Concrete	Testing hardened concrete- Shape, dimensions and other requirements for specimens and moulds	BS EN 12390-1:2021	P
		Material Testing hardened concrete making and curing specimens for strength tests	BS EN 12390-2:2019	
		Density of hardened concrete	BS EN 12390-7:2019	
		Compressive Strength of test specimens	BS EN 12390-3:2019	
		Water Absorption of Concrete	BS 1881-122:2011 +A1:2020	
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTMC 1202:2019	
		Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	
		Initial surface absorption of concrete	BS 1881-208:1996	
	Masonry Block	Masonry Blocks -Dimension	BS 6073-1:1981 (2003) Appendix A	P
		Masonry Blocks - CompressiveStrength	BS 6073-2:1981 (2003) Appendix B	
	Paving Block	Paving Blocks -Dimensions	BS EN 1338:2003	P
		Paving Blocks -Compressive Strength	BS 6717-1:1993 Annex B	
		Abrasion Resistance of concreteby Sand Blasting	ASTM C418-20	
		Paving Blocks- Abrasion Resistance -Wide wheel abrasion	BS EN 1338:2003. Annex F	



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Material Testing	Paving Block	Paving Blocks -Water Absorption	ASTM C140/C140M-21	P
		Paving Blocks -Density & Relative Density	ASTM C140/C140M-21	
		Flexural Strength of Concrete (Using Simple Beam with Centre-Point Loading)	ASTM C293/C293M-16	
		Measurement of Tensile Splitting Strength	BS EN 1338:2003. Annex F	
		Resistance to salt attack	AS/NZS 4456.10-2003 Method B	
	Kerbstone	Kerbstone -Water Absorption	BS EN 1340:2003	P
		Kerbstone -Bending Strength	BS EN 1340:2003	
		Kerbstone -Abrasion Resistance(Wide Wheel Abrasion)	BS EN 1340:2003	
		Slip/skid resistance	BS EN 1340:2003/ ASTM E 303 -98(2018)	
	Ceramic Tiles	Determination of Dimension	BS EN 10545-2:2018	P
		Modulus of Rupture and Breaking Strength	BS EN 10545-4:2019	
	Cement	Standard Consistency	BS EN 196-3:2016 Cls.5	P
		Initial Setting Time	BS EN 196-3:2016 Cls.6.2	
		Final Setting Time	BS EN 196-3:2016 Cls.6.3	
		Cement-Compressive Strength	BS EN 196-1:2016 Cls.9.2	
		Cement-Flexural Strength	BS EN 196-1:2016 Cls.9.1	
		Modulus of elasticity in compression	BS EN 13412:2006	



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Material Testing	Fresh Concrete	Slump Test	BS EN 12350-2:2019	P
		Bleeding	ASTM C232/C232M-20a	
		Density	BS EN 12350-6:2019	
		Air Content	BS EN 12350-7:2019	
		Temperature	ASTM C1064/C1064M-17	
	Steel Reinforcement & Products	Steel for the reinforcement of Concrete: Weldable reinforcing steel: bar, Coil and Decoiled product: Specification- Tensile Properties	BS 4449:2005+A3:2016 Cl.7.2.3	P
		Steel for the reinforcement and prestressing of concrete. Reinforcing bars, wire rod and wire test method	BS EN ISO 1563-1:2019	
		Metallic Materials-Tensile Testing	BS EN ISO 6892-1:2019	
		Steel for the reinforcement of Concrete: Weldable reinforcing steel: bar, Coil and Decoiled product: Specification- Bend performance	BS 4449:2005+A3:2016. Cl. 7.2.5	
		Steel for the reinforcement and prestressing of concrete. Test methods. Rebend Test	BS EN ISO 15630-1:2019. Cl. 7	
		Multi-Wire steel prestressing strand -Tensile Strength	ASTM A1061/A1061M- 20ae1	



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Material Testing	Soil	In Situ Density by Large Pouring Cylinder	BS 1377-9:1990 Cl 2.2	S
		Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D1556 / D1556M - 15e1	
		Density of Soil In-Place by the Sand-Cone Method	AASHTO T 191-14 (2018)	
		MDD & OMC Relationship	BS 1377-4:1990 Cl 3.5/3.6	P
		Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> ))	ASTM D1557 - 12(2021)	
		Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T 180-21	
		Thermal conductivity of soil and soft rock by thermal needle probe procedure	ASTM D5334-14	
		California Bearing Ratio	BS 1377-4:1990 Cl. 7.2.3 Amd. 13925-2002	P
		California Bearing Ratio	AASHTO T 193-13 (2021)	S
		In situ CBR	BS 1377 Part 9: 1990	
		Particle Size Distribution	BS EN ISO 17892-4:2016	P
		Particle Size Analysis	ASTM D6913/D6913M-17	
		Particle Size Distribution by Hydrometer Method	BS EN ISO 17892-4:2016	
		Liquid Limit, Plastic Limit, Plasticity Index	BS EN ISO 17892-12:2018+A1:2021	P
		Liquid Limit of Soils	AASHTO T 89-13 (2021)	
		Plastic Limit and Plasticity Index of Soils	AASHTO T 90-20	
		Water (Moisture) Content of Soil Sample	BS 1377-2:1990 Cl 3.2 Amd 9027-1996	
Moisture Content of Soils	AASHTO T 265-15 (2019)			



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Material Testing	Soil	One Dimensional Consolidation	BS 1377-5:1990	P	
		Soil Permeability by Constant Head method	BS 1377-5:1990 Cl. 5		
		Plate Bearing Capacity	DIN 18134-2012 BS 1377-9:1990	S	
	Soil and Rock	Water (Moisture) Content of soil and Rock Sample	ASTM D2216-19 BS EN ISO 17892-1:2014	P	
	Rock	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19		
		Unconfined Compressive Strength	ASTM D7012:2014e1, Method C		
		Slake Durability of Shales and Other Similar Weak Rocks	ASTM D4644-16		
	Aggregate	Aggregate	Aggregate -Particle Size Distribution	BS EN 933-1:2012	P
			Sieve Analysis of Fine and Coarse Aggregates	AASHTO T 27-20	
			Aggregate -Micro Deval Test	ASTM D 6928-17 BS EN 1097-1:2011	
			Aggregate -Clay Silt & Dust	BS EN 933-1:2012	
			Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117:2017	
			Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	AASHTO T 11-20	
			Aggregate -Particle Density and Water Absorption	BS EN 1097-6:2013	
	Aggregate -Shell Content	BS EN 933-7:1998			



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Material Testing	Aggregate	Aggregate -Flakiness Index	BS EN 933-3:2012 BS 812-105.2:1990	P
		Aggregate -Elongation Index	BS 812-105.2:1990	
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	AASHTO T96-02 (2019)	
		Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M-20	
		Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535-16	
		Aggregate -Clay Lumps and Friable Particles	ASTM C142:2017	
		Clay Lumps and Friable Particles in Aggregate	AASHTO T 112-21	
		Aggregate Crushing Value	BS 812-110:1990	
		Ten Percent Fines Value (TFV)	BS 812-111:1990 Part 7.1 & 7.2	
		Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88M-18	
		Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	AASHTO T 104-99 (2020)	
		Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128-15	
		Specific Gravity and Absorption of fine Aggregate	AASHTO T 84-13 (2021)	
		Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419-14	



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Material Testing	Aggregate	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	AASHTO T 176-17 (2021)	P
		Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127-15	
		Specific Gravity and Absorption of Coarse Aggregate	AASHTO T 85-21	
		Total Evaporable Moisture Content of Aggregate by Drying	AASHTO T 255-00 (2021)	
		Lightweight Particles in Aggregate	AASHTO T 113-18	
		Percentage of Fracture in Coarse Aggregate	AASHTO T 335-09 (2018)	
	Bitumen	Bitumen -Softening point (Ring& Ball)	ASTM D36/D36M-14:2020	P
		Bitumen -Penetration	ASTM D5/D5M-2020	
	Asphalt	Mechanical Size Analysis of Extracted Aggregate	ASTM D5444-15	P
		Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172M-17e	
		Preparation of Asphalt Mixture Specimens using Marshall Apparatus	ASTM D6926-20	
		Marshall Stability and Flow of Asphalt Mixtures	ASTM D6927-15	
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549-18	



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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)
Material Testing	Water Proofing Membrane	Water Proofing Membrane - Tensile Strength	ASTM D5147/D5147M-18. Cls.7	P
		Water Proofing Membrane - Elongation	ASTM D5147/D5147M-18	
		Resistance to Puncture	ASTM E154/E154/M-2019 <sup>e1</sup>	
		Water Proofing Membrane - Mass per unit Area	BS EN 1849-1:2000	
		Hydrostatic Pressure Resistance of Waterproofing Membranes	ASTM D5385/D5385M-20	P
		Waterproofing and Surfacing of Concrete Bridge Decks – Resistance to Chisel Impact	BD 47/99	
		Water Absorption	ASTM D5147-18	
	Mortar Grout	Water Absorption	ASTM D570-98(2018)	P / S
		Pull off Strength	BS 1881-207:1992 Cl.8	
	Geotextile	Tensile Strength	BS EN ISO 10319:2015	P
		Elongation	BS EN ISO 10319:2015	
		Static Puncture test (CBR test)	BS EN ISO 12236:2006	
		Mass Per Unit Area	ASTM D5261-10(2018)	
		Bursting strength of textile fabrics	ASTM D3786/D3786M-18	
Water permeability of geotextiles by permittivity		ASTM D4491/D4491M-21		
Grab breaking load and elongation of geotextiles	ASTM D4632/D4362M-15a			





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Material Testing	Geotextile	Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe	ASTM D6241-14	P
		Trapezoidal Tearing Strength of geotextile	ASTM D4533/D4533M-15	
		Apparent opening size	ASTM D4751-21a	
	Glass Fiber Reinforced plastics (GRP)	Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor	ASTM D2583-13a	P
		Flexural Properties of Unreinforced and Reinforced	ASTM D790-17	
	Polyvinyl Chloride (PVC)	Dimension	BS 3126:2005	P
		Tensile	BS EN ISO 6259-2:2020	
		Elongation	BS EN ISO 6259-2:2020	
	Polyethylene (PE)	Dimension	BS EN ISO 3126:2005	P
		Tensile Properties	BS ISO 13953:2001 +A1:2020	
		Elongation Percentage	ASTM D3350-21	
		Plastics — Melt mass-flow rate (MFR) & Melt volume-flow rate (MVR) of thermoplastics — Part 1	ISO 1133-1:2011 Method A	
		Izod Pendulum Impact Resistance of Plastics	ASTM D 256-10(2018): Method A	
		Environmental Stress-Cracking of Ethylene Plastics	ASTM D1693-21	
		Density	ASTM D792-2020	
Resistance to external blows. Round-the-clock method		BS EN ISO 3127:2017		
Vicat softening temperature	BS EN ISO 2507-1:2017			
Thermoplastics pipes, fittings as assemblies for the conveyance of fluids – Determination of the resistance to internal pressure	BS EN ISO 1167-1:2006			



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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)
Material Testing	Glass Fiber Reinforced Concrete (GRC)	Characteristics Limit of Proportionality (LOP)	BS EN 1170-5:1998	P
		Characteristics Modulus of Rupture (MOR)	BS EN 1170-5:1998	
		Dry Bulk Density	BS EN 1170-6:1998	
		Water Absorption	BS EN 1170-6:1998	
	Rubber-Water Stopper	Shore A and D Hardness	ASTM D2240-15(2021)	P
	Joint Filler Board	Density	ASTM D545-19	P
	Self-Adhesive Membrane	Water Absorption	ASTM D5147-18	P
		Puncture Resistance	ASTM E154-08a (19e1)	P
	WarningTape	Tensile Properties	ASTM D882-18	P
	Textile and Fabrics	Breaking Strength & Elongation of Textile fabrics (Grab Test)	ASTM D5034-21	P
	Geostrap	Tensile Load	ASTM D4595-17/ISO 10319- 2015	P
		Thickness	ASTM D5199-12 (2019)	P
	Geogrid	Tensile Properties to Geogrid	ASTM D6637/D6637M-15	P
		Elongation	ASTM D6637/D6637M-15	
	Road Markings	Resistance to long term degradation	ASTM D6637-15	P
		Luminance Factor	BS EN 1436:2018 Annex C	
	Di Duct / Manhole	Retro Reflectance (Qd & RL)	BS EN 1436:2018	P
		Load Test Deflection	BS EN 124-1:2015	
	Miscellaneous Material	Exposed Surface -SRI (Solar Reflectance Index)	ASTM E1980-19	P
		Material -Thermal Conductivity by Heat Flow Meter	ASTM C518-21	
Standard Test Method for Determination of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus		ASTM D4355/D4355M-21		



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Material Testing	Wood	Bending Strength	ASTM D 4761-19	P
	Marble- Dimension stone	Water Absorption	ASTM C97/C97M-18	P
	Plastics	Water Vapor Transmission of Materials	ASTM E96/E96M-16	P
		Impact resistance by the free- falling dart method (Staircase methods)	BS EN ISO 7765-1:2004	
		Density of Smoke from the Burning or Decomposition of Plastics	ASTM D2843-19	
		Tensile properties	ASTM D638-14	
		Elongation	ASTM D638-14	P
	Paints	Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Non-metallic Materials	ASTM G154-16	P
		Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)	ASTM D2794-93(2019)	
		Pull-Off Strength of Coatings Using Portable Adhesion Testers	ASTM D4541-17	
		Mandrel Bend Test of Attached Organic Coatings	ASTM D522/D522M-17	
		Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non- Ferrous Metals	ASTM D7091-21	P / S



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Geotechnical	Soil	Soil -Penetration Resistance using Split Barrel Sampler	BS 1377-9:1990 Cl 3.3 Amd. 8264:1995 (Partially Replaced, Superseded)	S
	Groundwater	Ground Water Level Measurement	BS 5930:2015 Cl.52.2, 52.3, 52.5 and 52.10	S
		Ground Water Sampling	BS 5930:2015 Cl.26.4	
	Soil and Rock	Soil and Rock Sampling	BS 5930:2015 Cl.25	S
		Soil and Rock Description	BS 5930:2015 Cl.33 and 36	
	Rock	Rock Quality Designation	BS 5930:2015 Section 6	S
		Core Recovery	BS 5930:2015 Section 6	
		Reporting	BS 5930:2015 Section 10	
	Chemical	Soil	pH value of Soil	BS 1377-3:2018 Cl.12
Water Soluble Sulphate in Soil			BS 1377-3:2018 Cl.7.3, 7.6	
Acid Soluble Sulphate in Soil			BS 1377-3:2018 Cl.7.9, 7.6	
Water Soluble Chloride in Soil			BS 1377-3:2018 Cl.9.2	
Acid Soluble Chloride in Soil			BS 1377-3:2018 Cl.9.3	
Ground Water		pH value of Groundwater	BS 1377-3:2018 Cl.12	P
		Sulphate Content of Groundwater	BS 1377-3:2018 Cl.7.8, 7.6	
		Chloride Content of Groundwater	BS 1377-3:2018 Cl.9.2.7	
Aggregate		Chloride Content of Aggregate using Nitric Acid Extract for Aggregate Containing chloridenot extracted by water	BS 1744-5:2006 Cl.9	P
		Total Sulphate by Acid Extraction Method	BS 1744-1:2009+A1 2012 Cl.12.4	



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Chemical	Carbon / Low alloy steel	Chemical Analysis for Carbon & Low Alloy Steel	ISTL-SOP-CH-001 based on ASTM E415-17	P
		Carbon (C)		
		Sulphate (S)		
		Phosphorus (P)		
		Nitrogen (N)		
		Copper (Cu)		
		Manganese (Mn)		
	CEV by Spark OES			
	Stainless steel	Chemical Analysis for Stainless Steel	ISTL-SOP-CH-001 based on ASTM E1086-14	P
		Carbon (C)		
		Silicon (Si)		
		Manganese (Mn)		
		Phosphorus (P)		
Sulfur (S)				
Molybdenum (Mo)				
Nickel (Ni), Copper (Cu)				
Concrete	Organic Impurities in Fine Aggregate for Concrete	ASTM C40/C40M – 20 Cl 10.1	P	
	Determination of Chloride Content in Hardened Concrete	BS 1881- 124:2015+A1:2021 Cl.12.1		
	Determination of Sulphate Content in Hardened Concrete	BS 1881- 124:2015+A1:2021 Cl.12.2		
Bitumen	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445 - 21	P	
	Standard Test Methods for Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 - 20		



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Chemical	Bitumen	Standard Test Method for Settlement and Storage Stability of Emulsified Asphalts	ASTM D6930 - 19	P
	Paint	Standard Test Method for Density of Liquid Coatings, Inks, and Related Products (Density)	ASTM D1475 - 13(2020)	P
		Standard Test Method for Density of Liquid Coatings, Inks, and Related Products (Specific Gravity)	ASTM D1475 - 13(2020)	
	Polyethylene (PE)	Standard Test Method for Carbon Black Content by Calcination and Pyrolysis	ISO 6964:2019	P
		Standard Test Method for Carbon Black Content in Olefin Plastics	ASTM D1603-20	
		Standard Test Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds	ISO 18553:2002	
		Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry	ASTM D 3895-19	
	Drinking Water	pH	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 H+B	P
		Electrical Conductivity @25°C	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2510B	
		Total Dissolve Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540C	
		Total Suspended Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540D	



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Chemical	Drinking Water	Chloride	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 CI B	P
		Sulphate	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 SO <sup>2-</sup> C, HACH 8051 C4	
		Calcium	APHA AWWA 23 <sup>rd</sup> Ed 2017, 3500 Ca B	
		Magnesium	APHA AWWA 23 <sup>rd</sup> Ed 2017, 3500 Mg B	
		Total Hardness	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2340C	
		Total Alkalinity to 4.4	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2320B	
	Sea Water	pH	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500H+B	P
		Total Dissolved Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540C	
		Total Suspended Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540D	
		Chloride	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 CI B	
		Sulphate	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500SO <sup>2-</sup> C4	
		Chemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5220B	
		Biochemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5210D	
	Oil and Grease	APHA AWWA 23 <sup>rd</sup> Ed 2017,5520B		
	Waste Water	pH	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500H+B	P
		Total Dissolved Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540C	
		Total Suspended Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540D	
		Oil and Grease	APHA AWWA 23 <sup>rd</sup> Ed 2017,5520B	



# Accreditation Scope

## Independent Soil Testing Laboratories LLC, NAL 135 Testing Laboratory, (ISO/IEC 17025:2017)

M10, W53, Mussafah, Abu Dhabi, UAE

Issue Date: 25-02-2022

Expiry Date: 08-09-2022

Issue No: 03

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)
Chemical	Waste Water	Chemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5220B	P
		Biochemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5210D	
	Ground Water	pH	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500H <sup>+</sup> B	P
		Total Dissolved Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540C	
		Chloride	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 <sup>rd</sup> Ed 2017, 4500 SO <sup>2-</sup> C4	
		Total Suspended Solids	APHA AWWA 23 <sup>rd</sup> Ed 2017, 2540 D	
		Oil and Grease	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5520 B	
		Chemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5220 B	
		Biochemical Oxygen Demand	APHA AWWA 23 <sup>rd</sup> Ed 2017, 5210 D	
<b>END</b>				