



# Accreditation Scope

## Wimpey Laboratories L.L.C (NAL 034) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah M-34, Abu Dhabi, UAE

Issue Date: 21-12-2022

Expiry Date: 09-06-2023

Issue No: 12

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	Aggregates	Water Soluble Chloride Content	* BS 812-118:1988 BS EN 1744-1-2009+A1:2012, Cl. 7	P
		Water Soluble Sulphate Content	* BS 812-117:1988 BS EN 1744-1-2009+A1:2012, Cl. 10.1	
		Acid soluble sulfate content of aggregate	BS EN 1744-1:2009 + A1: 2012, Cl.12	
		Acid soluble chloride content of aggregate	BS EN 1744-5:2006	
		Organic impurity aggregate for concrete	ASTM C40-40M-20, Cl 10.1	
	Concrete	Acid soluble Chloride content	BS 1881-124:2015, Cl. 12.1	
		Acid soluble Sulphate content	BS 1881:124:2015, Cl. 12.2	
	Ground Water	Sulphate	* BS 1377-3:2018, Cl. 7.8 & 7.6	
		Chloride	* BS 1377-3:2018, Cl. 9.2	
		pH	* BS 1377-3:2018, Cl. 12	
		Total dissolved solids	* BS 1377-3: 2018, Cl. 11	
	Soil	Acid Soluble Sulphate Content of Soil	* BS 1377-3:2018, Cl. 7.9 & 7.6	
		Water Soluble Sulphate Content of Soil	* BS 1377-3:2018, Cl. 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 (0 to 14)	* BS 1377-3:2018, Cl. 12	
		Organic matter content of soil	* BS 1377-3: 2018 Cl. 4	
		Carbonate content of soil	* BS 1377-3: 2018 Cl. 8.3	
		Soluble salts content of soil	Earth Manual Designation E-8	
	Sludge	Total Solids At 105 °C	APHA 2540 G, 23 <sup>rd</sup> Ed.2017	
		Volatile Solids at 550 °C	APHA 2540 G, 23 <sup>rd</sup> Ed.2017	
		Fixed Solids at 550 °C	APHA 2540 G, 23 <sup>rd</sup> Ed.2017	



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Chemical	Water or Wastewater	Biochemical Oxygen Demand (MDL 5mg/l)	APHA 5210B, 23 <sup>rd</sup> Ed.2017	P
		Chemical Oxygen Demand [COD] (MDL 5 mg/l)	APHA 5220 B, 23 <sup>rd</sup> Ed.2017	
		Oil and Grease (MDL 5 mg/l)	APHA 5520B, 23 <sup>rd</sup> Ed.2017	
		Dissolved Oxygen (MDL 0.1 mg/l)	APHA 4500 O C, 23 <sup>rd</sup> Ed.2017	
		Conductivity (MDL 0-200 mS/cm)	APHA 2510 B, 23 <sup>rd</sup> Ed.2017	P / S
		Total Suspended Solids (MDL 5 mg/l)	APHA 2540 D, 23 <sup>rd</sup> Ed.2017	P
		Total Dissolved Solids (MDL 10 mg/l)	APHA 2540 C, 23 <sup>rd</sup> Ed.2017	
		Turbidity (MDL 0.02 NTU)	APHA 2130 B, 23 <sup>rd</sup> Ed.2017	P / S
		pH (0 to 14)	APHA 4500 H+ B, 23 <sup>rd</sup> Ed.2017	
		Calcium (MDL 0.8 mg/l)	APHA 3500 Ca, B, 23 <sup>rd</sup> Ed.201	P
		Magnesium (MDL 0.24 mg/l)	APHA 3500 Mg, B, 23 <sup>rd</sup> Ed.2017	
		Fluoride (MDL 0.02 mg/l)	APHA 4500-F-D, 23 <sup>rd</sup> Ed.2017 HACH 8029 Jun 2007 Ed:2	
		Total Hardness (MDL 2 mg/l)	APHA 2340 C, 23 <sup>rd</sup> Ed.2017	
		Silica (MDL 1 mg/l)	HACH 8185 Jun 2007 Ed:2	
		Phosphorous (ortho phosphate) (MDL 0.02 mg/l)	HACH 8048 Jun 2007 Ed:2	
		Mercury (MDL 0.5mg/l)	EPA 200.7:1994 Rev. 4.4	
		Metals: Aluminum (MDL 0.05 mg/l) Antimony (MDL 0.1 mg/l) Arsenic (MDL 0.1 mg/l) Barium (MDL 0.1 mg/l) Beryllium (MDL 0.01 mg/l) Boron (MDL 0.1 mg/l) Cadmium (MDL 0.001 mg/l)	APHA 3120 B & APHA 3030 E, 23 <sup>rd</sup> edition, 2017	P



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Chemical	Water or Wastewater	Calcium (MDL 0.5 mg/l) Chromium (MDL 0.01 mg/l) Cobalt (MDL 0.05 mg/l) Copper (MDL 0.05 mg/l) Iron (MDL 0.05 mg/l) Lead (MDL 0.05 g/l) Lithium (MDL 0.05 mg/l) Magnesium (MDL 0.5 mg/l) Manganese (MDL 0.05 mg/l) Molybdenum (MDL 0.05 mg/l) Nickel (MDL 0.05 mg/l) Potassium (MDL 0.5 mg/l) Selenium (MDL 0.5 mg/l) Silver (MDL 0.05 mg/l) Sodium (MDL 0.5 mg/l) Strontium (MDL 0.05 mg/l) Thallium (MDL 0.5 mg/l) Vanadium (MDL 0.01 mg/l) Zinc (MDL 0.05 mg/l)	APHA 3120 B & APHA 3030 E, 23 <sup>rd</sup> edition, 2017	P
	Water	Alkalinity (Bicarbonate, Carbonate) (MDL 2 mg/l) (Total Alkalinity)	APHA 2320B, 23 <sup>rd</sup> Ed.2017	P
		Chloride (MDL 1 mg/l)	APHA 4500 Cl <sup>-</sup> B, 23 <sup>rd</sup> Ed.2017	
		Sulphate (MDL 2 mg/l)	APHA 4500 SO <sub>4</sub> <sup>2-</sup> C, 23 <sup>rd</sup> Ed.2017 or HACH 8051 Jun 2007 Ed:2	
	Wastewater	Ammonia (MDL 0.02 mg/l)	HACH 10205 Jun 2007 Ed:2	P
	Water /Chiller Water	Free Chlorine (MDL 0.02 mg/l)	APHA 4500Cl G, 23 <sup>rd</sup> Ed.2017 HACH 8021 Jun 2007 Ed:2	P / S
		Nitrite (MDL 2 mg/l)	HACH 8153 Jun 2007 Ed:2	P
		Nitrate (MDL 0.3 mg/l)	HACH 8039 Jun 2007 Ed:2	
	Potable Water	Appearance	WSOP-CH-022 Issue No:01 based on APHA 2110, 23rd edition, 2017 & ASTM E2680- 16	P
		Monochloramine (0.04 mg/l to 4.5 mg/l)	HACH 10171 Jun 2007 Ed:02	



# Accreditation Scope

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Chemical	Potable Water	Phenols: (MDL 0.01 mg/l) Phenol 2 Chlorophenol 2 Nitrophenol 2, 4 Dichlorophenol 4 Chloro-3-methyl phenol 2,4 Dinitrophenol 4 Nitrophenol 2 methyl, 4,6 Dinitrophenol Pentachlorophenol 2,4 Dimethylphenol 2,4,6 Trichlorophenol	WSOP-CH-021 Issue No:02 based on US EPA 8270 D Revision 5 2014 & US EPA 3510C	P
		Pesticides: (MDL 0.01 mg/l) Atrazine, Alachlor, Aldrin, Carbofuran, Chloropyrifos, Chlordane, DDT, Dieldrin, Dimethoate, Endrin, Lindane, Metolachlor, Methoxychlor, Molinate, Pendimethalin, Simazine, Trifluralin	WSOP-CH-16 Issue No:04 based on US EPA 8270 D Revision 5 2014 & US EPA 3510 C, USEPA525.3	P
		Polycyclic Aromatic Hydrocarbons:(MDL 0.01 mg/l) Naphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Fluoranthene, Benzo(b) fluoranthene, Benzo(k) fluoranthene, Indeno, (1,2,3-cd) pyrene, Anthracene, Chrysene, Benzo(a) pyrene, Benzo(ghi) perylene, Dibenz(a,h) anthracene	WSOP-CH-20 Issue No:02 based on US EPA 8270 D Revision 5 2014 & US EPA 3510	P
		Colour (5 - 100 Platinum Cobalt Units)	APHA 2120C, 23 <sup>rd</sup> edition, 2017	
	Wood /Wood Based Panels	Formaldehyde (MDL 0.01 mg/l)	ISO 12460-4:2016	P



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Chemical	Aqueous Foam Concentrate	Freezing & Thawing	WSOP- CH-034 Version/ Issue 03 06-07-2022	P
		Stability	WSOP- CH-033 Version/ Issue 03 06-07-2022	
		pH (0 to 14)	WSOP- CH-038 Version/ Issue 01 18-07-2022	
		% Sediment (MDL 0.1%)	WSOP- CH-031 Version/ Issue 03 06-07-2022	
		Surface Tension (MDL 0.1 mN/m)	WSOP- CH-032 Version/ Issue 03 06-07-2022	
		Density	WSOP- CH-036 Issue 01 13- 04-2022	
		Kinematic Viscosity - for Newtonian foam concentrates with viscosity less than 200mm <sup>2</sup> /s (0.6-200 mm <sup>2</sup> /s)	WSOP- CH-035 Version/ Issue 02 06-07-2022	
Chemical/ Physical	Lube Oil	Kinematic viscosity @40 °C	ASTM D445 - 21	P
		Kinematic viscosity @100 °C	ASTM D445 - 21	
		Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100 °C	ASTM D2270 - 10(2016)	
		Low-Temperature Viscosity of Automatic Transmission Fluids, Hydraulic Fluids, and Lubricants using a Rotational Viscometer	ASTM D2983 – 22 -Procedure D	
		Flash and Fire Points by Cleveland Open Cup Tester	ASTM D92 - 18	
		Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93 - 20 - Procedure A&B	
		Pour Point of Petroleum Products	ASTM D97 - 17b	
		Sulfated Ash from Lubricating Oils and Additives	ASTM D874 - 13a(2018)	
		Conradson Carbon Residue of Petroleum Products	ASTM D189 - 06(2019)	
		Ash	ASTM D482 - 19	



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Chemical/ Physical	Lube Oil	Cloud Point of Petroleum Products and Liquid Fuels	ASTM D2500 - 17a	P
		ASTM Color of Petroleum Products (ASTM Color Scale)	ASTM D1500 - 12(2017)	
		Measurement of Lubricant Generated Insoluble Color Bodies	ASTM D7843 - 21	
		in In-Service Turbine Oils using Membrane Patch Colorimetry		
		Oxidation Stability of Steam Turbine Oils by Rotating Pressure Vessel	ASTM D2272 - 22 - Method B	
		Hydraulic fluid power - Determination of the particulate contamination level of a liquid sample by automatic particle counting using the light-extinction principle	ISO 11500:2008	
		Brake Fluids-Determination of pH	GSO 595:1995	
	Fuel Oil	Water and Sediment in Middle Distillate Fuels by Centrifuge	ASTM D2709 - 22	
	Lubricants, Fuel Oil, Transformer Oil	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298 - 12b(2017)	
	Lubricants, Fuel Oil, Bitumen	Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95 - 13(2018)	
	Transformer oil	Furanic Compounds in Electrical Insulating Liquids by High- Performance Liquid Chromatography (HPLC)	ASTM D5837 - 15 - Method A	
Transformer oil	Mineral insulating oils - Methods for the determination of 2-furfural and related compounds	IEC 61198:1993 - Method B		



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Chemical/ Physical	Diesel	Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	ASTM D86-20b	P
Microbiological	Water	Pseudomonas Aeruginosa	CCFRA 2.5.2 Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5th Edition) 2007	P
		Sulphite Reducing Clostridia	CCFRA 2.8.2-2003	
		Enumeration of Legionella	ISO 11731:2017 (Procedures 5,7,8,9 &10)	
	Potable & Drinking Water	Salmonella Species	CCFRA 3.1.2/3.1.5 - 2007 Guidelines 43	P
	Water & Waste Water	E.coli	APHA 9222 H & I Based thru APHA 9222B 23rd Ed.2017	P
		Faecal Streptococci	BS EN ISO 7899-2:2000	
		Faecal Coliforms	APHA 9222 D, 23rd Ed.:2017	
		Total Coliforms	APHA 9222 B, 23rd Ed.:2017	
		Heterotrophic Plate Count	APHA 9215 B, 23rd Ed.:2017	
	Water Sampling	Water Sampling and Preservation For Microbiological Parameters Testing	APHA 9060 A & B	S
Water Sampling For Legionella Testing		BS 7592:2008		
Food	Total Bacteria Count	CCFRA 1.1.1; Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	P	
	Coliforms	CCFRA 2.2.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007		
	E.coli	CCFRA 2.4.2: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007		



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Microbiological	Food	Enterobacteriaceae	CCFRA 2.3.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	P
		Yeast & Mould	CCFRA 2.1.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Detection of Salmonella Confirmation of Salmonella	CCFRA 3.1.2: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007 CCFRA 3.1.5: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Staphylococcus aureus	CCFRA 3.5.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Bacillus cereus	CCFRA 3.7.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Listeria species	CCFRA 3.2.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Vibrio parahaemolyticus	CCFRA 3.8.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Clostridium perfringens	CCFRA 3.6.1: Manual of Microbiological Methods for the Food and Drinks Industry- Guideline 43 (5 <sup>th</sup> Edition) 2007	
		Listeria monocytogenes	CCFRA 3.2.1- 2007, Guidelines 43	





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Issue Date: 21-12-2022

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Microbiological	Food	Thermotolerant Campylobacter species	CCFRA 3.3.1 - 2007 - Guidelines 43	P
		Detection of E.Coli 0157/H7	AOAC 2000.14	
	Food Sampling	Food Sampling and Preservation for Microbiological testing	WSOP MB-003	S
	Swab Sampling	Swab Sampling 23 cm <sup>2</sup>	CCFRA 1.1.1 - 2003 - Guideline 45	P / S
	Swab	Total Bacterial Count	CCFRA 1.1.1 - 2007 - Guideline 43	P
		Total coliforms	CCFRA 2.2.1. 2007 - Guidelines 43	
		Escherichia Coli	CCFRA 2.4.2 - 2007 - Guidelines 43	
Staphylococcus aureus		CCFRA 3.5.1- 2007 - Guidelines 43		
Environmental	Air	Bioaerosol Sampling	W-SOP-MB-005 Rev 04 Issue date 02-01-2022	P / S
		Total Bacteria Count	W-SOP-MB-005 Rev 04 Issue date 02-01-2022 and CCFRA 1.1.1: Manual of Microbiological Methods for the Food and Drinks Industry-Guideline 43 (5th Edition) 2007	
		Yeast & Mould	W-SOP-MB-005 Rev 04 Issue date 02-01-2022 and CCFRA 2.1.1: Manual of Microbiological Methods for the Food and Drinks Industry-Guideline 43 (5th Edition) 2007	
	Ambient Air	Total Suspended Particulate Matter – TSPM (2 to 750) µg/M <sup>3</sup>	USEPA Title 40 CFR Part 50 Appendix B:2015	S
		Respirable Particulate Matter – RSPM-PM <sub>10</sub> (26 to 208) µg/m <sup>3</sup>	USEPA Title 40 CFR Part 50 Appendix J:2015	
		Non-Respirable Particulate Matter (NRSPM)	USEPA Title 40 CFR Part 50 Appendix B:2015	



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Expiry Date: 09-06-2023

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Environmental	Ambient Air	Sulphur Dioxide - SO <sub>2</sub> (25 - 470 µg/m <sup>3</sup> )	USEPA Equivalent Method: EQS-0775-002:1975	S
		Nitrogen Dioxides - NO <sub>2</sub> (20 - 750 µg/m <sup>3</sup> )	USEPA Equivalent Method: EQN-1277-026:2003	
		Carbon Dioxide - CO <sub>2</sub> (0 to 10000) ppm	BS EN 60079-29-2:2015	
		Carbon Monoxide - CO (0 to 500) ppm	AS 3580.7.1	
		Volatile Organic Compounds (VOCs) (0 to 1000) ppm	BS EN 60079-29-2:2015	
		Ozone - O <sub>3</sub> (0 to 1000) ppm	USEPA Title 40 CFR Part 50 Appendix I:2015	
		Ammonia - NH <sub>3</sub> (0 to 1000) ppm	BS EN 60079-29-2:2015	
	Indoor Air	Particulate Matter 1.0 (0.1 to 6000) µg/m <sup>3</sup>	ISO 21501-4:2018	S
		Particulate Matter 2.5 (0.1 to 6000) µg/m <sup>3</sup>	ISO 21501-4:2018	
		Particulate Matter 4.0 (0.1 to 6000) µg/m <sup>3</sup>	ISO 21501-4:2018	
		Particulate Matter 7.0 (0.1 - 6000 µg/m <sup>3</sup> )	ISO 21501-4:2018	
		Respirable Particulate Matter – RSPM/TSPM –PM 10.0 (0.1 - 6000 µg/m <sup>3</sup> )	ISO 21501-4:2018	
		Temperature (-10 to 70) °C	OTM (OSHA TECHNICAL MANUAL) SECTION III, CHAPTER-2, 28-4-2022	
		Humidity (0 to 100) %		
		Oxygen - O <sub>2</sub> (0 to 25) %		
		Carbon Dioxide - CO <sub>2</sub> (0 to 10000) ppm		
		Carbon Monoxide - CO (0 to 500) ppm		
Sulphur Dioxide - SO <sub>2</sub> (0 to 550) ppm				
Nitrogen Dioxide - NO <sub>2</sub> (0 to 20 ppm)				



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Environmental	Indoor Air	Hydrogen Sulfide - H <sub>2</sub> S (0 to 100) ppm	OTM (OSHA TECHNICAL MANUAL) SECTION III, CHAPTER-2, 28-4-2022	P
		Ozone (0-1.00 ppm)		
		Volatile Organic Compounds (0.1-10000 ppm)		
		Ammonia - NH <sub>3</sub> (1 to 100 ppm)		
		Formaldehyde (20-1000 ppb)		
	Stack Air Emissions	Oxygen	USEPA 3:2017	P
		Carbon Dioxide	USEPA 3:2017	
		Carbon Monoxide	USEPA 10:2017	
		Particulate Matter	USEPA 5:2019	
		Sulphur Dioxide (0 to 5000) ppm	USEPA 6C:2017	
		Nitrogen Dioxides (0 to 500 ppm)	USEPA 7E:2018	
		Flow Rate	USEPA 1:2017	
		Velocity (3 to 60) m/Sec	USEPA 1:2017	
		Temperature (0 to 600) °C	USEPA 1:2017	
		Pressure	USEPA 2:2017	
	Flue Gas	Oxygen (0 to 25) %	USEPA 3:2017	P
		Carbon Dioxide (0 to 50) %	USEPA 3:2017	
		Carbon Monoxide (0 to 10000) ppm	USEPA 10:2017	
		Sulphur Dioxide (0 to 5000) ppm	USEPA 6C:2017	
	Flue Gas	Nitric Oxide and Nitrogen Dioxide (0 to 5000) ppm	USEPA 7E:2018	S
Hydrocarbons (100 to 40000) ppm		USEPA CTM 030 & USEPA3:2017		
Noise	Noise Level - L Max, Lmin, Leq (30 to 130) DB	ISO 1996-2:2017	P	
Lux	Light or Foot Candle(0 to 400000) Lux	BS 667:2005	P	



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Environmental	Clean Room Validation	Differential Pressure -120 to +120 Pa	ISO 14644-1:2015 ISO 14644-2:2015 ISO 14644-3:2019	P
		Air Supply Velocity		
		Air Exchange		
		Air Volume		
		Air Borne Particle Count 0.5 - 100 %		
		Room Temperature (-10 to 70 °C)	BS EN 60079-29-2:2015	S
		Humidity (0 to 100%)		
Construction Materials (Physical Tests)	Aggregates	Determination of particle size distribution - Sieve tests	* BS 812-103.1:1985 BS EN 933-1:2012	P
		Particle Shape - Flakiness Index	BS 812-105.1:1989	
		Particle Shape - Elongation Index of Coarse Aggregate	BS 812-105.2:1990	
		Particle Shape- Flakiness Index	BS EN 933-3:2012	
		Determination of ten per cent fineness value (TFV)	BS 812-111:1990	
		Methods for determination of density	BS 812-2:1995 Cl.6.3.4	
		Determination of aggregate impact value (AIV)	BS 812-112:1990	
		Determination of aggregate crushing value (ACV)	BS 812-110:1990	
		Sand Equivalent Value for Soil and Fine Aggregate	ASTM D 2419-2014	
		Determination of shell content in coarse aggregate	* BS 812-106:1985 BS EN 933-7:1998	
		Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C 117:2017	



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Construction Materials (Physical Tests)	Aggregates	Method for Clay Lumps and Friable Particles in Aggregates	ASTM C 142/C142M:2017	P
		Soundness of Aggregate by using Magnesium & Sodium Sulphate	ASTM C 88:2018	
		Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131 / C131M - 20	
		Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535 - 16	
		Specific Gravity and Water Absorption for Coarse and Fine Aggregate	BS 812-2:1995 BS EN 1097-3:1998	
		Sieve Analysis of Fine and Coarse Aggregates	AASHTO T27:2018	
	Asphalt	Method for Penetration of Bituminous Materials	ASTM D5-2019	P
		Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D 2172 - 2017e1	
		Method for Marshall Stability and Flow of Asphalt Mixtures	ASTM D 6927-2015	
		Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M-21	
		Bulk Specific Gravity and Density of compacted bituminous mixtures using coated samples	ASTM D 1188-07 (2015)	
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D 3549 /D3549M-18	



# Accreditation Scope

## Wimpey Laboratories L.L.C (NAL 034) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah M-34, Abu Dhabi, UAE

Issue Date: 21-12-2022

Expiry Date: 09-06-2023

Issue No: 12

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 (Physical Tests)	Asphalt	Sieve Analysis	ASTM D 5444-15	P
		Percent air voids	ASTM D 3203/ D 3203M-17	
		Preparation of Asphalt mixture specimens using Marshal Apparatus	ASTM D 6926-20	
		Voids determination	DMS 9 :2001(R2007)	
	Concrete	Determination of compressive strength of concrete cubes	BS 1881-116:1983; AMD 6720:1991 Superseded, Withdrawn	P
		Determination of density of hardened concrete	BS 1881-114:1983; AMD 6720:1991 Superseded, Withdrawn	
		Method of normal curing of test specimens (20 °C method)	BS 1881-111:1983; AMD 6720:1991 Superseded, Withdrawn	
		Determination of compressive strength of concrete cubes	BS EN 12390-3:2019	
		Shape, dimensions and other requirements for specimens and moulds	BS EN 12390-1:2021	
		Determination of Density of hardened concrete	BS EN 12390-7:2019	
		Determination of water absorption on hardened concrete	BS 1881-122:2011+A1:2020	
		Recommendations for the determination of the initial surface absorption of concrete	BS 1881-208:1996	
		Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	
		Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202-2019	



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Construction Materials (Physical Tests)	Kerbstone	Water Absorption of Kerbstone	BS EN 1340-2003 Incorporating Corrigendum No.1 (2006), Annex E	P
		Dimension of paving flags	BS EN 1339-2003 Incorporating Corrigendum No.1 (2006) Annex C (C2& C3)	
		Flexural strength of Paving flags	BSEN 1339-2003 Incorporating Corrigendum No.1 (2006), Annex F	
	Fresh Concrete	Testing fresh concrete. Slump- test	BS EN 12350-2:2019	S
		Testing fresh concrete. Density	BS EN 12350-6:2019	
		Temperature of Freshly Mixed Hydraulic-CementConcrete	ASTM C 1064/C1064M-17	
		Method for Air Content of FreshlyMixed Concrete by the PressureMethod	ASTM C 231/C231M-17a	
		Method for Bleeding of Concrete	ASTM C 232/C232M-14(2019)	
		Making and curing specimens forstrength tests	BS EN 12390-2:2019	
	Paving Block	Precast concrete paving blocks Measurement of dimensions andplan area	BS 6717-1:1993 Annex A	P
		Precast concrete paving blocks Determination of compressive strength	BS 6717-1:1993 Annex B	
		Precast concrete paving blocks Water Absorption	ASTM C140 / C140M - 22, Cl.A 4.5	
	MasonryBlock	Measurement of dimension of pre-cast concrete Masonry Blocks	BS 6073-1:1981 Appendix A	P
		Determination of Compressive Strength of pre-cast Masonry Blocks	BS 6073-2:1981 Appendix B	
		Pre-cast Masonry Blocks Water Absorption	ASTM C140 / C140-22, Cl .A1.5	



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Construction Materials (Physical Tests)	Water Proofing Membrane	Puncture resistance (0 to 50) kN	ASTM E154 / E154M - 08a (2019) Cl. 10	P
		Flexible sheets for waterproofing. Determination of tensile properties. Bitumen sheets for roofwaterproofing	BS EN 12311-1:2000	
		Flexible sheets for waterproofing. Determination of resistance to tearing (nail shank). Plastic and rubber sheets for roof waterproofing	BS EN 12310-2:2018	
		Flexible sheets for waterproofing. Determination of thickness and mass per unit area. Plastics and rubber sheets for roof waterproofing	BS EN 1849-2:2019	
	Geotextiles	Tensile Properties of Geotextiles by the Wide-Width Strip Method	ASTM D 4595-2017	P
		Method for Index Puncture Resistance of Geomembranes and Related Products	ASTM D4833 / D4833M -07(2020)	
		Method for Trapezoid Tearing Strength of Geotextiles	ASTM D4533 / D4533M - 15	
		Mass per unit area	ASTM D5261-10 (2018)	
	Rubber	Method for Rubber Property— Durometer Hardness	ASTM D2240-15(2021)	P
	Coatings	Pull-Off Strength of Coatings Using Portable Adhesion Testers	ASTM D4541-17	P
	Plastics/UPVC	Vicat Softening Temperature of Plastics	ASTM D1525-17e1	P
	UPVC Pipes	Acetone resistance	ISO 3472:1975	P





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Construction Materials (Physical Tests)	Steel Rebar	Tensile Properties	BS 4449:2005 + A3:2016 /BS EN ISO 15630-1: 2019 BS EN ISO 6892-1:2019	P
		Steel for the reinforcement of concrete: Weldable reinforcementsteel bar, Coil and Decoiled product: specification-Bend Performance	BS 4449:2005+A3:2016 BS EN ISO 15630-1:2019	
		Steel for the reinforcement and prestressing of concrete. Test method Re-bend Test	BS EN ISO 15630-1:2019	
Geotechnical	Soil /Rock	Standard Penetration Test	* BS 1377- 9:1990, Section 3.3	S
		Soil Sampling	BS 5930:2015 Cl. 25.1-25.4	
		Soil & Rock Description	BS 5930:2015 Section 6 Cl. 33 & 36	P
	GroundWater	Ground Water Sampling	BS 5930:2015 Cl. 26.4	S
		Ground Water Level Measurement	BS 5930 2015 Cl. 23.2, 27.5 & 47.2.7	
	Rock	Rotary Core Drilling	BS 5930:2015 section 4, Cl. 24.11	P
		Rock Quality Designation	BS 5930:2015 Cl. 36.4.4	
		Core Recovery	BS 5930:2015 Cl. 36.4.4	
		Preparation of Rock Core	ASTM D 4543:2019	
		Determination of Water (Moisture)Content of Soil and Rock by Mass	ASTM D 2216-2019	
	Soil	Unconfined Compressive Strengthof Rock Core Specimen	ASTM D7012-2014, Method C	P
		Determination of water content	* BS 1377-2:1990 Cl 3.2 BS EN ISO 17892-1-2014	
Determination of particle size distribution		* BS 1377-2:1990 Cl 9.2 & 9.3 BS EN ISO 17892-4:2016,Cl. 5.2		



# Accreditation Scope

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Geotechnical	Soil	Sedimentation by the hydrometer method	* BS 1377-2:1990 CI 9.5 BS EN ISO 17892-4:2016, CI.5.3	P
		Determination of liquid and plastic limits and plasticity index of soil	* BS 1377-2:1990; CI 4.5, 5.3 & 5.4 BS EN ISO 17892-12:2018, CI. 5.4, 5.5 & 6.5	
	Soil/ Rock	Reporting	BS 5930:2015: Sec.10	P
Construction Materials	Soil	Determination of dry density/ moisture content relationship using 4.5Kg rammer for coarse and medium gravel size particles	BS 1377-4:1990; CI 3.5 and 3.6	P
		In-situ tests (Sand replacement method suitable for fine, medium and coarse-grained soils (large pouring cylinder method))	BS 1377-9 :1990 CI 2.2	S
		Methods of test for soils for civil engineering purposes. Compaction-related tests (Determination of California bearing ratio)	BS 1377-4:1990, CI 7	P
		Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T180:2019	
		California Bearing Ratio	AASHTO T193:2017	
		Determining the Liquid Limit of Soils	AASHTO T89:2017	
		Plastic Limit and Plasticity Index of Soils	AASHTO T90:2016	
<b>END</b>				

\* Standards are Partially replaced, Superseded/withdrawn