



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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 Site Investigation	Rotary and Percussion	Determination of the penetration resistance using the split-barrel sampler (Standard penetration test - SPT) Geotechnical investigation and testing, Field Testing Standard penetration test (SPT)	BS 1377-9:1990 - AMD 8264:1995, Cl. 3.3  BS 1377-9:1990 - Cl.3.3	S
		Soils	Soil Sampling	BS 1377-9: 1990 - Cl.3.3
	Description of Soils		BS 5930:2015 +A1:2020, Sec. 6, Cl. 33	S/P
	Ground Water	Groundwater Sampling	BS 5930:2015 +A1:2020, Sec. 4, Cl. 26.4	S
		Groundwater Measurements	BS 5930:2015+A1:2020, Sec. 4, Cl. 26.1 to 26.3 & Sec. 8, Cl. 52	S
	Geotechnical Testing	Rock	Rock Sampling Rock Core Recovery (RCR)	BS 5930:2015 +A1:2020, Sec. 4, Cl. 25.7
Description of Rocks			BS 5930:2015 +A1:2020, Sec. 6, Cl. 36	S/P
Rock Quality Designation (RQD)			BS 5930:2015+ A1:2020, Sec. 6, Cl. 36.4	S/P
Preparation of rock Core			ASTM D4543:2019	P
Unconfined Compressive Strength			ASTM D 7012:2014E1, Method C	P
Determination of Water (Moisture) Content of soil & Rock sample			ASTM D2216:2019	P
Soil		Determination of Particle Size Distribution	BS 1377-2:2022, Cl. 10/ BS EN 17892-4:2016, Cl. 5.3	P
		Determination of Liquid Limit	BS 1377-2:2022, Cl. 5/ BS EN 17892-12:2018 A2:2022, Cl. 5.3	P
		Determination of Plastic Limit and Plasticity Index	BS 1377-2:2022, Cl. 6/ BS EN 17892-12:2018 A2:2022, Cl. 5.5 & Cl. 6.5	P
		Determination of Particle Size Distribution by Hydrometer Method	BS 1377-2:2022, Cl. 6/ BS EN 17892-12:2018 A2:2022, Cl. 5.5 & Cl. 6.5	P
		Determination of Water (Moisture) Content of soil sample	BS 1377-2:2022, Cl. 10/ BS EN 17892-1:2014, A1:2022	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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 Testing	Factural Report	Reporting	BS 5930:2015+ A1:2020, Cl. 63, Section 10	P
Physical	Soil	Determination of In-Situ Density by Sand Replacement Method	BS 1377 Part 9:1990 Cl. 2.2 AMD 8264-1995	S
		Determination of Dry Density Moisture Content Relationship	BS 1377-2:2022, Cl. 11.5 & 11.6	P
		Determination of California Bearing Ratio	BS 1377-2:2022, Cl. 15.2	P
		California Bearing Ratio of Laboratory Compacted soils	ASTM D 1883:2016	P
		Initial Sample Preparation	BS 1377-1:2016	P
		Sampling	AASHTO T2- 91(2015)	S
		Classification of Soil and Soil- Aggregate mixture of Highway construction purposes	AASHTO M 145-91(2021)	P
		Moisture -Density Relationship of Soils Using a 4.54-kg (10lb) and 457-mm (18-in) Drop	AASHTO -T180-2022	P
		Particle size distribution	AASHTO T 88-2022	P
		Linear Shrinkage	BS 1377 Part 2-2022, Clause 7	P
		California Bearing Ratio (CBR)	AASHTO T193-2022	P
		Determination The Liquid limit of Soils	AASHTO T89-2022	P
		Determination the Plastic limit and Plasticity Index of Soils	AASHTO T90-2022	P
		Laboratory Determination of Moisture Content of Soils	AASHTO T 265-2022	P
		Bearing Capacity Confirmation By Plate Load	BS 1377 Part 9 -1990 Clause 4.1	S
Density of Soil In-Place by the Sand-Cone Method	AASHTO T191-14(2022)	S		



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical	Soil	In-Situ CBR	BS 1377-9 -1990, Cl. 4.3	S
		Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D1557-12(2021)	P
		Density and Unit Weight of Soil in Place by Sand- Cone Method	ASTM D1556/D1556M-15e1	S
		Determination of Thermal Conductivity of Soil and Rock by Thermal Probe Procedure	ASTM D 5334:2022	S/P
	Aggregate	Determination of Particle Size Distribution – Sieve tests	BS 812-103-1:1985	P
		Determination of Particle Size Distribution – Sieving method	BS EN 933-1:2012	P
		Determination of Flakiness Index of Aggregates	BS 812 Part 105-1:1989	P
		Determination of Elongation Index of Aggregates	BS 812 Part 105-2:1990	P
		Determination of Shell Content in Coarse Aggregates	BS 812 Part 106:1985	P
		Determination of Shell Content in Coarse Aggregates	BS EN 933-7:1998	P
		Determination of Crushing Value	BS 812 Part 110:1990	P
		Determination of Ten Percent Fines Value	BS 812 Part 111:1990	P
		Determination of Soundness of Aggregates by use of Sodium Sulphate and Magnesium Sulphate	ASTM C 88/C88M:2018	P
		Material Finer Than 75 Microns sieve in Mineral Aggregates by Washing	ASTM C 117:2017	P
		Specific Gravity and water Absorption of Coarse Aggregates	ASTM C 127:2015	P
		Specific Gravity and Water Absorption of Fine Aggregates	ASTM C 128:2015	P
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C 136/C136M: 2019	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical	Aggregate	Determination of Clay Lumps and Friable Particles	ASTM C142/C142M:2017	P
		Determination of Sand Equivalent Value	ASTM D 2419:2014	P
		Determination of Aggregate Impact Value	BS 812 Part 112:1990	P
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	AASHTO T 96-2022	P
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C 131/C131M-2022	P
		Standard Practice for Sampling Aggregates	ASTM D 75/D75M-2019	P
		Sieve Analysis of Fine and Coarse Aggregates	AASHTO T 27-2022	P
		Tests of Thermal and weathering Properties of aggregates Determination of Drying Shrinkage	BS EN 1367-4 : 2008	P
		Specific gravity and Absorption of Coarse Aggregates	AASHTO T85-2022	P
		Specific gravity and Absorption of Fine Aggregates	AASHTO T 84-2022	P
		Methods for Determination of Density and Water Absorption of Aggregate Greater than 10mm	BS 812-2:1995 Cls.5.3	P
		Methods for Determination of Density and Water Absorption of Aggregate Nominal Size 10mm & Smaller	BS 812-2:1995 Cls.5.5	P
		Uncompact Void Content of Fine Aggregate	AASHTO T304 -2022	P
		Soundness of aggregate by Using Sodium Sulfate or Magnesium Sulfate	AASHTO T 104-2022	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical	Aggregate	Plastic Fines in Graded Sand Aggregates and Soils By Use of The Sand equivalent Test	AASHTO T 176-2022	P
		Material finer than 75 micron (No. 200) Sieve in Mineral Aggregates By Washing	AASHTO T11-2022	P
		Testing of geometrical properties of aggregates - Determination Flakiness Index	BS EN 933-3 -2012	P
		Tests for geometrical properties of aggregates - Determination of particle shape. Shape index	BS EN 933-4-2009	P
		Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821-13(2017)	P
		Determining the Percentage of Fractured in Coarse Aggregate	AASHTO T335 – 09(2018) <sup>1</sup>	P
		Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregates	ASTM D4791--2019	P
		Clay Lumps & Friable Particles in Aggregate	AASHTO T112 :2022	P
		Clay Silt & Dust & material passing 0.063	BS EN 933-1-2012	P
		Test for mechanical and physical properties of Aggregate Determination of particle density and water absorption	BS EN 1097-6:2022	P
		Resistance to Degradation of Large -Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C 535 -2016	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical	Concrete	Determination of density of hardened concrete	BS 1881-114:1983	P
		Method of normal curing of test specimens	BS 1881-111:1983	P
		Compressive strength of concrete cubes	BS 1881-116:1983,	P
		Shape, dimension, and other requirements for specimen	BS EN 12390-1:2021	P
		Making and curing of specimen for strength test	BS EN 12390-2:2019	P
		Compressive strength of test specimens	BS EN 12390-3: 2019	P
		Density of Hardened Concrete	BS EN 12390-7: 2019	P
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202:2019-2022	P
		Determination of Depth of Penetration of Water under Pressure	BS EN 12390-8:2019	P
		Determination of Water Permeability	DIN 1048-5:1991	P
		Determination of Water Absorption of Hardened Concrete	BS 1881-122:2011+A1:2020	P
	Determination of Initial Surface Water Absorption of Concrete	BS 1881-208:1996	P	
	Fresh Concrete	Testing of fresh concrete Sampling and common apparatus	BS EN 12350-1:2019	S
		Testing of fresh concrete Slump test	BS EN 12350-2:2019	S
		Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/C1064M-17	S
Testing of fresh concrete Density		BS EN 12350-6:2019	S	





# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical	Fresh Concrete	Testing of fresh concrete Air content –Pressure method	BS EN 12350-7:2019, Cl.6	S
		Bleeding of concrete	ASTM C232/C232M-2021	S
	Cement /Epoxy/Grout	Compressive Strength of Hydraulic Cement Mortars (Using 2-in or [50mm] Cube specimens)	ASTM C109/C109 M-2021	P
	Grout Cubes	Compressive Strength	ASTM C579-2018	P
	Concrete NDT	Testing concrete in structures Determination of rebound number	BS EN 12504-2:2021	S
		Testing concrete in structures Determination of ultrasonic pulse velocity	BS EN 12504-4:2021	
Determination of carbonation depth of hardened concrete by the phenolphthalein method		BS EN 14630-2006		
Civil Steel Test	Tensile Properties	Steel for the Reinforcement of Concrete: Weldable Reinforcing Steel: Bar, Coil and De coiled Product: Specification Rebend	BS 4449:2005+A3 :2016 Cl. 7.2.3	P
		Steel for the reinforcement and prestressing of concrete. Part 1: Reinforcing bars, wire rod and wire Test methods.	BS EN ISO 15630-1-2019 Cl. 5	
		Metallic materials. Tensile testing. Method of test at room temperature	BS EN ISO 6892-1:2019	
		Specification for Carbon steel bars for the reinforcement of concrete Metallic materials —Tensile testing Part 1: Method of test at ambient temperature - Tensile Test	BS 4449: 1997 Annex E, Clause E.1.4 & BS EN 10002-1 -2001	
		Specification for Carbon steel bars for the reinforcement of concrete - Bend Test	BS 4449 - 1988 Appendix C, Cl. C.1.6.1	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)			
Physical / Mechanical	Steel Rebar	Surface Geometry	BS 4449:2005+A3:2016 & BS EN ISO 15630-1:2019	S/P			
	Steel Rebar & Anchors	Pull-Out Test	BS 1881 Part 207 -1992	S			
	Coating on Metal Substrates	Pull-Off Test	ASTM D 4541:2017	S			
	Coating on Coating Substrates	Pull-Off Test	ASTM D7234-2021	S			
	Paving Blocks	Precast concrete paving blocks. Specification for paving blocks -Dimension	Compressive strength	BS 6717-1: 1993 Annex -B	P		
			Concrete paving blocks. Requirements and test methods- <i>Tensile splitting strength</i>	BS EN 1338:2003	P		
			Abrasion Resistance –Sand Blast	ASTM C418-2020	P		
			Sampling and Testing Concrete Paving Units and Related Units- Density, Relative density & Absorption	ASTM C 140 /C140 M-2022, A4.5 & A4.6	P		
			Flexural Strength of Concrete	ASTM C293/C293M-16	P		
			Masonry Blocks	Sampling and Testing Concrete Masonry Units and Related Units- <i>Absorption</i>	Compressive strength	ASTM C 140 /C140 M-2022, A1.5	P
					Sampling and Testing Concrete Masonry Units and Related Units- Density & Relative density	ASTM C 140 /C140 M-2022, A1.6	P
	Determination of dimensions	BS EN 772-16:2011			P		
	Test for masonry units- Density	BSEN 772-13:2000			P		
	Compressive strength	BSEN 772-1:2011+A1:2015			P		





# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical / Mechanical	Kerbstone	Water absorption	BS EN 1340:2003, Annex E	P
		Compressive strength	BS EN 12504 -1:2019	P
	Asphalt	Measurement of Dimension	BS 7263-1:1994, Annex A.3	P
		Determination of Transverse Strength	BS 7263-1:1994, Annex B & BS 7263-1:2001 Annex E.4	P
		Bending strength	BS EN 1340-2003	P
		Slip/ skid resistance	BS EN 1340-2003	P
		Theoretical maximum specific gravity and density of bituminous paving mixtures (GMM)	ASTM D 2041:2019	P
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D 3549/D3549M -18	P
		Mechanical size analysis of extracted aggregate	ASTM D 5444:2015	P
		Quantitative Extraction of Asphalt Binder from Hot-Mix Asphalt (HMA)	AASHTO T 164:2011	P
		Bulk specific gravity and density of non-absorptive compacted asphalt mixture	ASTM D 2726/D2726M – 2017	P
		Resistance to plastic flow of bituminous mixture using Marshall apparatus	AASHTO T 245:15(2019)	P
		Preparation of Asphalt Mixture Specimen Using Marshall Apparatus	ASTM D6926-2020	P
		Mechanical Analysis of Extracted Aggregate	AASHTO T30-2021	P
		Determination of loss of stability of compacted bituminous mixtures using Marshall Apparatus	DMS 10: 2001 (R 2007)	P
		Computation of voids in compacted bituminous paving mixture	DMS 9: 2001 (R 2007)	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Physical / Mechanical	Asphalt	Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172 M- 2017e1	P
		Sieve Analysis of Mineral Filler for Hot Mix Asphalt (HMA)	AASHTO T37- 07(2020)	P
		Degree of Pavement Compaction of Bituminous Aggregate Mixtures	AASHTO T230 -1968	P
		Bulk Specific Gravity of Compacted Asphalt Mixtures Using SSD Specimens	AASHTO T166-2022	P
		Marshall Stability & Flow of Asphalt Mixtures	ASTM D6927-2015	P
	Road Marking Material	Measurement of recto reflective pavement marking materials with CEN prescribed geometry using a portable retro reflectometer	ASTM E 1710-2018	S/P
	Manhole	Permanent Set & Load Test	BS EN 124 -1 : 2015 Annex A & B / BS EN 124-2 : 2015	P
Microbiology	Food	Sampling	SOP-MB-22, Issue No: 01: 01/05/2008, Rev. 9:14/12/2019	S
		Aerobic Plate Count	USFDA BAM Chapter 3 (2001)	P
		Enumeration of Enterobacteriaceae	ISO 21528-2:2017	
		Enumeration of Yeast and Moulds	ISO 21527-1-2008 & ISO 21527-2-2008	
		Enumeration of Coliforms by Colony Count Method	ISO 4832:2006	
		Coliforms by MPN Method	CMMEF 9.71, 5 <sup>th</sup> Edition (2015)	
		Fecal Coliforms by MPN Method	CMMEF 9.81, 5 <sup>th</sup> Edition (2015)	
		E. coli by MPN Method	CMMEF 9.91, 5 <sup>th</sup> Edition (2015)	
		Enumeration of $\beta$ -glucuronidase positive E. coli	ISO 16649-2-2001	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Microbiology	Food	Detection of E.coli O 157 H7	AOAC 2000.14, 18 <sup>th</sup> Edition (2010) - Reveal Microbial Screening test by Neogen Corporation	P
		Enumeration of Coagulase Positive Staphylococcus aureus	ISO 6888-1-2021	
		Detection & Confirmation of Salmonella spp by Culture, Biochemicals and Serology.	ISO 6579-1-2020	P
		Enumeration of Bacillus cereus	USFDA BAM Chapter 14 (2012)	P
		Enumeration of Clostridium perfringens	ISO 7937-2004	P
		Detection of Listeria Spp.	Reveal Microbial Screening Test for Listeria by Neogen Corporation AOAC Approved	P
		Listeria monocytogenes	BAM Chapter 10:2016	P
		Detection of Vibrio parahaemolyticus	ISO 21872-1-2017	P
		Detection of Campylobacter spp.	ISO 10272-1:2017	P
	Potable/ Drinking Water/ Dialysis Water	Sampling	SOP-MB-19 Issue No: 01:16/12/2007 Rev. 7:14/12/2019	S
	Water	Heterotrophic Plate Count	APHA AWWA 9215B 23 <sup>rd</sup> Ed. (2017)	P
		Enumeration of Total Coliforms	APHA AWWA 9222B 23 <sup>rd</sup> Ed. (2017)	
		Enumeration of Fecal coliforms	APHA AWWA 9222B and 9222G 23 <sup>rd</sup> Ed. (2017)	
		Enumeration of E. coli	APHA AWWA 9222B and 9222H 23 <sup>rd</sup> Ed. (2017)	
		Enumeration of Pseudomonas aeruginosa	NSM W6 Issue No.3 (2007)	
Enumeration of Fecal Streptococci		ISO 16266:2006		
Legionella		ISO 11731:2017		
Sampling for legionella	BS7592:2022			



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Microbiology	Water	Total Coliforms by MPN	APHA AWWA 9221B 23 <sup>rd</sup> Ed. (2017)	P
		Fecal coliforms by MPN	APHA AWWA 9221E.1, 23 <sup>rd</sup> Ed. (2017)	
		E. coli by MPN	APHA AWWA 9221F 23 <sup>rd</sup> Ed. (2017)	
		Endotoxin	Chromogenic LAL Endotoxin Assay Controlled Kit brochure 05/2018	
	Water & Ice	Enumeration of Staphylococcus aureus	APHA 23rd Ed, 9213 B	P
	Environment - Air	Total Viable Count - Total Yeast and Mould Count - Total Bacterial Count	IESO Method 1220, 2 <sup>nd</sup> Ed.(2003) Method 800, NIOSH, 4 <sup>th</sup> Ed.(1998)	P
	Swab (Hand/ Surface)	Sampling	SOP-MB-21, Issue No: 01:16/12/2007, Rev. 6:08/06/2017	S
	Hand Swab	Aerobic Colony count	USFDA BAM Chapter 3(2001)	P
		Enumeration of Total Coliforms	ISO 4832:2006	
		Enumeration of coagulase-positive staphylococci including Staphylococcus aureus	ISO 6888-1-2021	
		Enumeration of Enterobacteriaceae	ISO 21528-2:2017	
	Surface Swab	Enumeration of E. coli	ISO 16649-2: 2001	P
		Aerobic Colony count	USFDA BAM Chapter 3(2001)	
		Enumeration of Total Coliforms	ISO 4832:2006	
		Enumeration of coagulase-positive staphylococci including Staphylococcus aureus	ISO 6888-1-2021	
Enumeration of Enterobacteriaceae		ISO 21528-2:2017		
	Enumeration of E. coli	ISO 16649-2: 2001		



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Aggregate	Chloride Content of Agg. using Nitric Acid Extract for Agg. containing chloride not extracted by water	BS 812 Part 117:1988	P
		Total Sulphate by Acid Extraction Method	BS 812 Part 118:1988	
		Organic Impurities in Fine Aggregates for Concrete	ASTM C 40/C40M: 2020 cl.10.2	
	Concrete	Determination of Chloride Content in Hardened Concrete	BS 1881 Part 124:2015 Cl. 12.1	P
		Determination of Sulphate Content in Hardened Concrete	BS 1881 Part 124:2015 Cl. 12.2	
	Ground Water	Determination of the pH value of Groundwater	BS 1377-3:2018 Cl. 12+A1:2021	P
		Determination of sulphate content of Groundwater	BS 1377-3:2018 Cl. 7.6, 7.8+A1:2021	
		Determination of Chloride content in Ground Water	BS 1377-3:2018 Cl. 9.1+A1:2021	
	Soil	Determination of the pH value of soil	BS 1377-3:2018 Cl. 12+A1:2021	P
		Determination of Water-soluble sulphate in soil	BS 1377-3:2018 Cl. 7.3, 7.6+A1:2021	
		Determination of acid soluble sulphate	BS 1377-3:2018 Cl. 7.6, 7.9+A1:2021	
		Determination of Water soluble chloride content	BS 1377-3:2018 Cl. 9.2+A1:2021	
Determination of acid soluble chloride content		BS 1377-3:2018 Cl. 9.3+A1:2021		
Organic Matter content of Soil		BS 1377 Part 3:2018 Cl. 4+A1:2021		



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	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, 2510 B	
		Total Dissolved Solids	APHA AWWA 23 <sup>rd</sup> Ed:2017, 2540 C	
		Total Suspended Solids	APHA AWWA 23 <sup>rd</sup> Ed:2017, 2540 D	
		Chloride	APHA AWWA 23 <sup>rd</sup> Ed:2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 <sup>rd</sup> Ed:2017, 4500 SO <sub>4</sub> <sup>2-</sup> C, Hach 8051	
		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, 2340 C	
		Total Alkalinity to 4.4	APHA AWWA 23 <sup>rd</sup> Ed:2017, 2320 B	
	Drinking Water (Metals - ICPMS)	Chromium	SOP-CH-59 based on APHA 3125 B,3030 F	P
		Nickel		
		Iron		
		Manganese		
		Aluminum		
		Lead		
		Cadmium		
		Copper		
		Zinc		
Silver				
Barium				
Boron				
Arsenic				





# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Drinking Water (Metals - ICPMS)	Selenium	SOP-CH-59 based on APHA 3125 B,3030 F	P
		Antimony		
		Strontium		
		Lithium		
		Cobalt		
		Vanadium		
		Molybdenum		
		Tin		
		Beryllium		
		Mercury	SOP-CH-59 based on USEPA 200.8	P
	Drinking water (Pesticides)	Aldrin	SOP-CH-62 based on APHA 6630 B / 8141B	P
		Dieldrin	SOP-CH-62 based on APHA 6630 B / 8141B	
		Endrin	SOP-CH-62 based on APHA 6630 B / 8141B	
		Heptachlor	SOP-CH-62 based on APHA 6630 B / 8141B	
		HCH-A (Alpha hexachlorocyclohexane)	SOP-CH-62 based on APHA 6630 B / 8141B	
		HCH-B (Beta hexachlorocyclohexane)	SOP-CH-62 based on APHA 6630 B / 8141B	
		HCH-D (delta hexachlorocyclohexane)	SOP-CH-62 based on APHA 6630 B / 8141B	
		HCH-G (gamma hexachlorocyclohexane)	SOP-CH-62 based on APHA 6630 B / 8141B	
		Trifluralin	SOP-CH-62 based on APHA 6630 B / 8141B	
Atrazine		SOP-CH-62 based on APHA 6630 B / 8141B		
Simazine	SOP-CH-62 based on APHA 6630 B / 8141B			



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Drinking water (Pesticides)	Alachlor	SOP-CH-62 based on APHA 6630 B / 8141B	P
		Azinphos-methyl	SOP-CH-62 based on APHA 6630 B / 8141B	
		Chlorpyrifos	SOP-CH-62 based on APHA 6630 B / 8141B	
		Diazinon	SOP-CH-62 based on APHA 6630 B / 8141B	
		Dichlorvos	SOP-CH-62 based on APHA 6630 B / 8141B	
		Fenthion	SOP-CH-62 based on APHA 6630 B / 8141B	
		Parathion-methyl	SOP-CH-62 based on APHA 6630 B / 8141B	
	Drinking water (VOC)	Bromodichloromethane	SOP-CH-63 based on USEPA 8260B	
		Bromoform	SOP-CH-63 based on USEPA 8260B	
		Carbon Tetrachloride	SOP-CH-63 based on USEPA 8260B	
		Chloroform	SOP-CH-63 based on USEPA 8260B	
		Dibromochloromethane	SOP-CH-63 based on USEPA 8260B	
		Hexachlorobutadiene	SOP-CH-63 based on USEPA 8260B	
		Tetrachloroethene	SOP-CH-63 based on USEPA 8260B	
		Trichloroethane	SOP-CH-63 based on USEPA 8260B	
1,2-Dichloroethene	SOP-CH-63 based on USEPA 8260B			



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Drinking water (VOC)	1,2,3- Trichlorobenzene	SOP-CH-63 based on USEPA 8260B	P	
		1,1,1-Trichloroethane	SOP-CH-63 based on USEPA 8260B		
	Drinking water (PAH)	Anthracene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Benzo(b)fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Benzo(K)fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Benzo(g,h,i)perylene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Benzo[a]pyrene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		Indeno (1,2,3-cd) pyrene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
	Sea Water	Naphthalene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D		
		pH	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 H <sup>+</sup> B		P
		Total Dissolved solids	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 2540 C		
		Total suspended solids	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 2540 D		
		Chloride	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 Cl <sup>-</sup> B		
Sulphate		APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 SO <sub>4</sub> <sup>2-</sup> C			
Chemical Oxygen Demand	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 5220 B				



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Sea Water	Bio Chemical Oxygen Demand	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 5210 D	P	
		Oil and Grease	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 5520 B		
		Iron	APHA/AWWA 23 <sup>rd</sup> Ed: 2017-3111B, 3030F		
		Zinc	APHA/AWWA 23 <sup>rd</sup> Ed: 2017-3111B, 3030F		
	Sea Water (Metals - ICPMS)	Aluminium	SOP-CH-59 based on APHA 3125 B,3030F		P
		Arsenic			
		Beryllium			
		Cadmium			
		Chromium			
		Cobalt			
		Lead			
		Manganese			
		Selenium			
		Copper,			
		Nickel			
	Waste Water	Mercury	SOP-CH-59 based on USEPA 200.8	P	
		pH	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 H*B		
		Total Dissolved solids	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 2540 C		
		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			
Bio Chemical Oxygen Demand	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 5210 D				



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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 (Metals - ICPMS)	Aluminium	SOP-CH-59 based on APHA 3125 B,3030F	P
		Arsenic		
		Beryllium		
		Lead		
		Selenium		
		Cadmium		
		Chromium		
		Cobalt		
		Copper		
		Iron		
		Manganese		
		Nickel		
		Zinc		
		Vanadium		
		Barium		
		Boron		
	Molybdenum			
	Silver			
	Tin			
	Lithium			
	Mercury	SOP-CH-59 based on USEPA 200.8		
Wastewater (VOC's)	Chloroform	SOP-CH-63 based on USEPA 8260 B		
	Bromodichloromethane	SOP-CH-63 based on USEPA 8260 B		
	Dibromochloromethane	SOP-CH-63 based on USEPA 8260 B		
	Bromoform	SOP-CH-63 based on USEPA 8260 B		
	1,2-Dichloroethane	SOP-CH-63 based on USEPA 8260 B		



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Wastewater (PAH)	Fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	P
		Benzo(b)fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Benzo(k)fluoranthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Benz(a)pyrene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Benzo(ghi)perylene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Acenaphthene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Acenaphthylene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Anthracene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Benz(a)anthracene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Chrysene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Fluorene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Naphthalene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
		Phenanthrene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D	
Pyrene	SOP-CH-60 based on APHA 6440C/ EPA 8270 D			





# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Wastewater (PCB)	PCB (52)	SOP-CH-61 based on EPA 8082 A / APHA 6431 C	P
		PCB (101)	SOP-CH-61 based on EPA 8082 A / APHA 6431 C	
		PCB (138)	SOP-CH-61 based on EPA 8082 A / APHA 6431 C	
		PCB (153)	SOP-CH-61 based on EPA 8082 A / APHA 6431 C	
		PCB (170)	SOP-CH-61 based on EPA 8082 A / APHA 6431 C	
	Ground Water	pH	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 H+B	P
		Total Dissolved solids	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 2540 C	
		Chloride	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 CI B	
		Sulphate	APHA/AWWA 23 <sup>rd</sup> Ed: 2017, 4500 SO <sub>4</sub> <sup>2-</sup> C	
		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	P	
	Ground Water (Metals - ICPMS)	Aluminium Boron Silver Strontium Manganese Lithium	SOP-CH-59 based on APHA 3125 B,3030F	P



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Ground Water (Metals - ICPMS)	Iron	SOP-CH-59 based on APHA 3125 B,3030F	P
		Barium		
		Copper		
		Zinc		
		Arsenic		
		Cadmium		
		Chromium		
		Cobalt		
		Lead		
		Molybdenum		
		Nickel		
		Selenium		
		Beryllium		
		Mercury	SOP-CH-59 based on USEPA 200.8	
Environment Monitoring	Ambient Air	Determination of Carbon dioxide - CO <sub>2</sub>	SOP CH -16 Issue 01/20-04-2017, Rev 04/22- 03-2020	S
		Determination of Carbon monoxide - CO	SOP CH -16 Issue 01/20-04-2017, Rev 06/10.10.2022	
		Determination of Ozone - O <sub>3</sub>	SOP CH -16 Issue 01/20-04-2017, Rev 06/10.10.2022	
		Determination of PM 10, PM 2.5	SOP CH -16 Issue 01/20-04-2017, Rev 06/10.10.2022	
		Determination of PM 2.5, PM 10 and Total Suspended Particulate	SOP CH -24 Issue 01/04-04-2018, Rev 03/02.03.2021	
		Determination of Relative Humidity	SOP CH -16 Issue 01/20-04-2017, Rev 06/10.10.2022	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Environment Monitoring	Ambient Air	Determination of Sulfur dioxide - SO <sub>2</sub>	SOP CH –16 Issue 01/20-04-2017, Rev. 06/10.10.2022	S
		Determination of Temperature	SOP CH –16 Issue 01/20-04-2017, Rev. 06/10.10.2022	
		Determination of VOC	SOP CH –16 Issue 01/20-04-2017, Rev. 06/10.10.2022	
		Total Suspended Particulate Matter	SOP CH –16 Issue 01/20-04-2017, Rev. 06/10.10.2022	
	Indoor Air Quality	Illuminance Monitoring	SOP CH 22, Issue 01/04/04/2018, Rev.02/10.10.2022	S
		Determination of Carbon dioxide - CO <sub>2</sub>	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Carbon Monoxide - CO	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Formaldehyde - HCHO	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Nitrogen dioxide - NO <sub>2</sub>	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Ozone - O <sub>3</sub>	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Environment Monitoring	Indoor Air Quality	Determination of PM 10, PM 7, PM 2.5 and PM 1	SOP CH - 05 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020	S
		Determination of Relative Humidity	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Sulfur dioxide	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of Temperature	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Determination of TVOC	SOP CH - 04 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020 based on BS EN 60079-29-2:2015	
		Total Suspended Particulate	SOP CH - 05 Issue no: 01:18/12/2016 Rev no: 03:22/03/2020	
	Noise	Noise Monitoring - LAeq, LA Max, LA Min	ISO 1996 - 1 :2016and ISO 1996-2:2017	S
	Stack Emission	Determination of Carbon dioxide - CO <sub>2</sub>	SOP CH - 27 Issue no: 01: 28/05/2018 Rev no: 01: 31/07/ 2019 based on Testo 350	
		Determination of Carbon Monoxide - CO	USEPA CTM 034	
		Determination of Flue Gas Temperature	USEPA CTM 034	
		Determination of Hydrocarbon - VOC	USEPA CTM 034	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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)
Environment Monitoring	Stack Emission	Determination of Nitrogen dioxide - NO <sub>2</sub>	USEPA CTM 034	S
		Determination of Nitrogen Monoxide - NO	USEPA CTM 034	
		Determination of Oxides of Nitrogen - NO <sub>x</sub>	USEPA CTM 034	
		Determination of Oxygen - O <sub>2</sub>	USEPA CTM 034	
		Determination of stack gas velocity and volumetric flow rate	SOP CH - 01 based on USEPA Method 2	
		Determination of Sulfur dioxide - SO <sub>2</sub>	USEPA Method 6C, 2017	
		Determination of TSP emission from stationary source	SOP CH - 01 based on USEPA Method 5	
Chemical	Soil	Test for soils for engineering purposes - Carbonate Content	BS 1377-3 : 2018+A1:2021 Cls 8	P
		Water Soluble Salts	IHTP-78 based on USBR-5450- 89 part 2	
		Test for soils for engineering purposes - Gypsum Content	IHTP-70 based on BS 1377-3 : 2018+A1:2021 Cl.7.6, 7.9	
	Aggregates	Chemical properties of Aggregates - Chloride	BS EN 1744-5:2006 Cls 9	P
		Chemical properties of Aggregates - Sulphate	BS EN 1744-1 :2009 + A1:2012 Cls 12.4	
		Light Weight Particle	ASTM C 123/C 123M-2014	
	Concrete Core	Testing concrete - Acid Soluble Chloride	BS 1881-124:2015 + A1 2021 Cls 12.1	P
		Testing concrete - Acid Soluble Sulphate	BS 1881-124: 2015 + A1 2021 Cls 12.2	
Concrete	Resistance to Salt attack	AS/NSZ 4456.10.2003	P	



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 018) Testing Laboratory, (ISO/IEC 17025:2017)

ICAD3, South of Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 19-01-2023

Expiry Date: 01-05-2023

Issue No: 04

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	Admixture	pH	IHTP-71 Issue 01/30-12-2021, Rev no 01/30-08-2022	P
		Chloride	IHTP-28 Issue 01/7-9-2008, Rev no 01/1-10-2022	
		Specific Gravity, Apparent @25°C	IHTP -79 based on ASTM D891- 18, Issue 01/28-4-2022 and Rev no 04/19-12-2022	
		Residue by Oven drying (mass percent)	ASTM C 494/C 494M-19e1 Clause 18.2	
	Concrete Water	Test method for pH of water	ASTM D 1293-2018	P
		Test method for Chloride ion in water	ASTM D 512-2012	
		Test method for Sulphate ion in water	ASTM D 516-2016	
		Test for soils for engineering purposes - Total Dissolved Solid	BS 1377-3:2018 + A1 2021 Cls 8	
		Total Alkalinity	APHA AWWA 2320 B 23 <sup>rd</sup> Edition	
	Ground Water	Tests for soils for Engineering purposes- Total Dissolved Solids	BS 1377-3:2018 + A1 2021 Cls 8	P
<b>END</b>				