



Accreditation Scope

ABU DHABI SUSTAINABLE WATER SOLUTIONS COMPANY P.J.S.C, NAL 087
Testing Laboratory, (ISO/IEC 17025:2017)

Al Wathba Plant - Abu Dhabi, Abu Dhabi, United Arab Emirates

Issue Date: 29/11/2024

Expiry Date: 01/08/2027

Issue No: 9

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	Treated Effluent	Total Suspended Solids 0.5 – 10,000 mg/L	APHA 2540 D 24th Edition: 2023	P
Physical	Raw Sewage	Electrical Conductivity 5 to 200,000 μ S/cm	APHA 2510 B 24th Edition: 2023	P
Physical	Raw Sewage	Total Dissolved Solids (TDS)@180 C 10 – 10,000 mg/L	APHA 2540 C 24th Edition: 2023	P
Physical	Treated Effluent	Turbidity 0.1 – 100 NTU	APHA 2130 B 24th Edition: 2023	P
Chemical	Raw Sewage	Biochemical Oxygen Demand – 5-days (BOD5) 0.5 – 2,000 mg/L	APHA 5210B 24th Edition: 2023	P
Chemical	Raw Sewage	pH 1 to 13 pH units	APHA 4500 H+ B 24th Edition: 2023	P
Chemical	Raw Sewage	Ammonia Nitrogen 0.1 – 300 mg/L	APHA 4500 NH3 D 24th Edition: 2023	P

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Chemical	Raw Sewage	Chemical Oxygen Demand 5 to 2,000 mg/L	HACH Dichromate Method 8000	P
Chemical	Raw Sewage	Total Alkalinity 10mg/L to 500 mg/L	APHA 2320 B 24th Edition: 2023	P
Chemical	Raw Sewage	Total Organic Carbon (TOC) 0 – 30,000 mg/L	APHA 5310 B 24th Edition: 2023	P
Chemical	Treated Effluent	Sulphate 2- 70 mg/L	HACH Method – 8051 SulfaVer 4 Turbidimetric Method	P
Chemical	Raw Sewage	Total Phosphorous 0.05 – 20.0 mg/L PO4-P	HACH Phosphor molybdenum Blue Method 03/2019 Edition 3	P
Chemical	Treated Effluent	Fluoride 0.1 – 2.5 mg/L	HACH SPANDS 2 Method 10225 Edition 12/2013	P
Chemical	Treated Effluent	Residual Chlorine 0.1 – 10 mg/L	APHA 4500 Cl G 24th Edition: 2023	P
Biological	Treated Effluent	Intestinal Enterococci 1 to 2419.6 MPN/100ml	APHA 9230 D 24th Edition: 2023 IDEXX Method	P
Biological	Treated Effluent	Escherichia Coli 1 to 2419.6 MPN/100ml	APHA 9223B 24th Edition: 2023 IDEXX	P

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Biological	Treated Effluent	Faecal Coliform 1 to 2419.6 MPN/100ml	IDEXX Method (Defined Substrate Technology)	P
Physical	Raw Sewage	Total Suspended Solids 0.5 – 10,000 mg/L	APHA 2540 D 24th Edition : 2023	P
Physical	Trade effluent	Total Suspended Solids 0.5 – 10,000 mg/L	APHA 2540 D 24th Edition: 2023	P
Physical	Treated Effluent	Electrical Conductivity	APHA 2510 B 24th Edition: 2023	P
Physical	Trade effluent	Electrical Conductivity	APHA 2510 B 24th Edition: 2023	P
Physical	Treated Effluent	Total Dissolved Solid @180 C 10 – 10,000 mg/L	APHA 2540 C 24th Edition: 2023	P
Physical	Trade effluent	Total Dissolved Solids (TDS)@180 C 10 – 10,000 mg/L	APHA 2540 C 24th Edition: 2023	P
Chemical	Treated Effluent	Biochemical Oxygen Demand – 5-days (BOD5) 0.5 – 2,000 mg/L	APHA 5210B 24th Edition: 2023	P
Chemical	Trade effluent	Biochemical Oxygen Demand – 5-days (BOD5) 0.5 – 2,000 mg/L	APHA 5210B 24th Edition: 2023	P

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Chemical	Treated Effluent	pH 1 to 13 pH units	APHA 4500 H+ B 24th Edition: 2023	P
Chemical	Trade effluent	pH 1 to 13 pH units	APHA 4500 H+ B 24th Edition: 2023	P
Chemical	Solid/sludge	pH 1 to 13 pH units	APHA Standard Method 4500-H 24th Edition & USEPA 9045D	P
Physical	Trade effluent	Turbidity 0.1 – 100 NTU	APHA 2130 B 24th Edition: 2023	P
Chemical	Treated Effluent	Ammonia Nitrogen 0.1 – 300 mg/L	APHA 4500 NH3 D 24th Edition: 2023	P
Chemical	Treated Effluent	Chemical Oxygen Demand (COD) 5 to 2,000 mg/L	HACH Dichromate Method 8000	P
Chemical	Trade effluent	Chemical Oxygen Demand (COD) 5 to 2,000 mg/L	HACH Dichromate Method 8000	P
Chemical	Treated Effluent	Total Alkalinity 10mg/L to 500 mg/L	APHA 2320 B 24th Edition: 2023	P
Chemical	Trade effluent	Total Alkalinity 10mg/L to 500 mg/L	APHA 2320 B 24th Edition: 2023	P
Chemical	Treated Effluent	Total Organic Carbon (TOC) 0 – 30,000 mg/L	APHA 5310 B 24th Edition: 2023	P

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Chemical	Trade effluent	Total Organic Carbon (TOC) 0 – 30,000 mg/L	APHA 5310 B 24th Edition: 2023	P
Chemical	Trade effluent	Fluoride 0.1 – 2.5 mg/L	HACH SPANDS Method 10225 Edition 12/2013	P
Chemical	Trade effluent	Sulphate 2- 70 mg/L	HACH Method – 8051 SulfaVer 4 Turbidimetric Method	P
Chemical	Treated Effluent	Total Phosphorous 0.05 – 20.0 mg/L PO4-P	HACH Phosphor molybdenum Blue Method 03/2019 Edition 3	P
Chemical	Trade effluent	Total Phosphorous 0.05 – 20.0 mg/L PO4-P	HACH Phosphor molybdenum Blue Method 03/2019 Edition 3	P
Chemical	Solid/sludge	Total Phosphorous	HACH Phosphor molybdenum Blue Method 03/2019 Edition 3	P
Chemical	Raw Sewage/Trade effluent	Lead	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Raw Sewage/Trade effluent	Arsenic	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Copper	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Cadmium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Chromium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Molybdenum	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Selenium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	p
Chemical	Raw Sewage/Trade effluent	Nickel	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	p

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Chemical	Raw Sewage/Trade effluent	Cobalt	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	p
Chemical	Raw Sewage/Trade effluent	Boron	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	p
Chemical	Raw Sewage/Trade effluent	Iron	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Vanadium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Manganese	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Magnesium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Sodium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Raw Sewage/Trade effluent	Calcium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Zinc	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Beryllium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Barium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Aluminum	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Potassium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage/Trade effluent	Lithium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Treated Effluent	Sodium Absorption Ratio (SAR)	FAO "Water Quality for Irrigation Manual" published by the Food and Agriculture Organization of the United Nations	P
Chemical	Raw Sewage	bicarbonates	APHA Standard Method 2320 B 24th Edition	P
Chemical	Treated Effluent	Chlorides	APHA Standard Method – 4500 Cl B 24th Edition	P
Physical	Raw Sewage	Temperature	APHA Standard Method -2550 B 24th Edition	P
Chemical	Solid/sludge	Potassium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Arsenic	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Copper	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Solid/sludge	Lead	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Molybdenum	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Nickel	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Selenium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Arsenic	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Copper	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Cadmium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Treated Effluent	Chromium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Molybdenum	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Selenium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Nickel	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Cobalt	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Boron	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Iron	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Treated Effluent	Vanadium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Manganese	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Magnesium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Sodium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Calcium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Zinc	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Beryllium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P

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Chemical	Treated Effluent	Barium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Aluminum	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Potassium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Treated Effluent	Lithium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Raw Sewage	Chlorides	APHA Standard Method – 4500 Cl B 24th Edition	P
Chemical	Treated Effluent	Bicarbonates	APHA Standard Method 2320 B 24th Edition calculation	P
Physical	Treated Effluent	Temperature	APHA Standard Method-2550 A 24th Edition	P
Physical	Treated Effluent	Dissolved Oxygen	APHA Standard Method 4500-O H 24th Edition	P

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Chemical	Raw Sewage	Sulphate 2- 70 mg/L	HACH Method – 8051 SulfaVer 4 Turbidimetric Method	P
Chemical	Trade effluent	Ammonia Nitrogen 0.1 – 300 mg/L	APHA 4500 NH3 D 24th Edition: 2023	P
Chemical	Trade effluent	Chlorides	APHA Standard Method – 4500 Cl B 24th Edition	P
Chemical	Treated Effluent	Lead	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Cadmium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
Chemical	Solid/sludge	Chromium	APHA Standard 3120 B 24th Edition USEPA 3015A & 3051A	P
END				

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