

Accreditation Scope

**Allahamah Laboratory - Al Ain Laboratory Section - Abu Dhabi
Sewerage Services Company, NAL 090**

Testing Laboratory (ISO/IEC 17025:2017)

Al Ain, Abu Dhabi, UAE

Issue Date: 19-01-2020
Issue No.: 05

Expiry Date: 24-09-2021

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	Raw Sewage, Treated Effluent Trade Effluent	Total Suspended Solids 0.5 -10000 mg/l	APHA 2540 D 23 rd Edition: 2017	P
		Electrical Conductivity 2 to 100,000 μ S/cm	APHA 2510 B 23 rd Edition:2017	
Chemical	Raw Sewage, Treated Effluent Trade Effluent	Biochemical Oxygen Demand(BOD) 0.5 - 2000 mg/l	APHA 5210 B 23 rd Edition:2017	P
		pH 1 to 14 pH units	APHA 4500 H B 23 rd Edition:2017	
		Phosphorus(Total) 0.05 to 30 mg/l	APHA 4500 P E 23 rd Edition:2017	
		Chloride 10 – 2000 mg/l	APHA 4500 Cl B 23 rd Edition:2017	
		Total Dissolved Solids 25 – 4000 mg/l	APHA 2540 C 23 rd Edition:2017	
		Ammonia Nitrogen 0.03 to 200 mg/l	APHA 4500 NH ₃ D 23 rd Edition:2017	

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Chemical	Raw Sewage, Treated Effluent Trade Effluent	Sulphate 10 -1000 mg/l	APHA 4500 SO ₄ C 23 rd Edition:2017	P
		Total Alkalinity and Bicarbonate Alkalinity 5 - 500 mg/l	APHA 2320 B 23 rd Edition:2017	
		Chemical Oxygen Demand(COD) 5.0 to 3000 mg/l	APHA 5220 D 23 rd Edition:2017	
	Treated Effluent	Residual Chlorine 0.1 to 10 mg/l	APHA 4500 Cl G 23 rd Edition:2017	
		Sodium Absorption Ratio	SOP-015 Rev-1, Jan-2018	
		Dissolved Oxygen 0.5 to 10 mg/l	APHA 4500 O G 23 rd Edition:2017	
Physical	Treated Effluent	Turbidity 0.1 to 400 NTU	APHA 2130 B 23 rd Edition:2017	P

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Biological	Treated Effluent	Escherichia Coli (E.coli) 1.0 to 2419 MPN/100 ml	APHA 9223 B 23 rd Edition:2017 IDEXX method Enzyme substrate method	P
		Fecal Coliforms 1.0 to 2419 MPN/100 ml	APHA 9223 B 23 rd Edition:2017 IDEXX method Enzyme substrate method	
		Intestinal Enterococci 1.0 to 2419 MPN/100 ml	APHA 9230 D23 rd Edition:2017 IDEXX method Enzyme substrate method	
	Biosolids	Escherichia coli (E. coli) 1.4 to 100000 MPN/g	IDEXX method Enzyme substrate method (2003)	
Physical	Biosolids	Total Solids 1 - 100 %	APHA 2540 G 23 rd Edition:2017	P
Chemical	Raw Sewage, Treated Effluent, Trade Effluent, Biosolids	Aluminum 0.04 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	P
		Arsenic 0.003 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Barium 0.03 -5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	

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Chemical	Raw Sewage, Treated Effluent Trade Effluent, Biosolids	Boron 0.003 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	P
		Beryllium 0.003 – 1000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Cadmium 0.003 – 2000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Chromium 0.003 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Cobalt 0.03 – 2000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Copper 0.04 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	

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Chemical	Raw Sewage, Treated Effluent Trade Effluent, Biosolids	Iron 0.03 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	P
		Lead 0.03 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Lithium 0.01 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Manganese 0.005 – 1000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Molybdenum 0.004 -5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Nickel 0.003 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	

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Chemical	Raw Sewage, Treated Effluent, Trade Effluent, Biosolids	Selenium 0.02 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	P
		Vanadium 0.003 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Zinc 0.007 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Mercury 0.0005 – 20 mg/l	APHA 3112 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Fluoride 0.2 - 20 mg/l	APHA 4500 F C 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
		Calcium 0.29 -20000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	

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Chemical	Raw Sewage, Treated Effluent, Trade Effluent, Biosolids	Magnesium 0.58- 20000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	P
		Potassium 0.47-20000 mg/l	APHA 3120 B 23 rd Edition:2017& Microwave digestion EPA -3015A & 3051A	
		Sodium 1.5-20000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion EPA -3015A & 3051A	
END				