

# AN LA RESOURCES (N GER A) L M TED

5, AFISMAND DRIVE, OPPOSITE PAM-PAM HOTEL,  
ANIFOWOSHE, IKEJA, LAGOS STATE

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## CERTIFICATE OF

**ANALYSIS Date Sample Received:** February 26, 2024

### Type of samples:

1. Soil Samples 4 sample
2. Groundwater water 2 Sample

### Ground Water water samples

S/N	Parameter	ATS/GW	ATS/GWC
1	Temperature	28.50	28.76
2	pH	6.06	6.52
3	Odour	None	None
4	Turbidity, NTU	8.90	4.32
5	Conductivity, $\mu\text{s/cm}$	407.00	300
6	Salinity, mg/l	40.04	80
7	Total Suspended Solids, mg/l	0.06	0.08
8	Total Dissolved Solids, mg/l	220.00	198.42
9	Total Solids mg/l	220.06	156.34
10	Total Acidity, mg/l	276.00	87.56
11	Total Alkalinity, mg/l	0.00	0.00
12	Total Hardness, mg/l	4.00	53
13	Nitrates, mg/l	21.60	18.9
14	Phosphates, mg/l	1.71	1.67
15	Sulphates, mg/l	10.34	8.97
16	Residual Chlorine, mg/l	0.00	0.00
17	Dissolved Oxygen, mg/l	3.20	2.2
18	Calcium, mg/l	0.39	0.26
19	Magnesium, mg/l	2.189	2.134
20	Sodium, mg/l	70.43	64.31
21	Potassium, mg/l	6.208	6.329
22	Zinc, mg/l	0.025	0.012
23	Copper, mg/l	0.104	0.09
24	Manganese, mg/l	0.254	0.129
25	Iron, mg/l	0.08	0.07
26	Nickel, mg/l	0.081	0.054
27	Cadmium, mg/l	<0.001	<0.001
28	Lead, mg/l	<0.001	<0.001
29	Chromium, mg/l	<0.001	<0.001

**Soil Samples**

S/N	Parameter	ATS/ TS1	ATS/ TS2	ATS/ TS3	ATS/ TSC
1	pH	7.50	7.68	7.72	7.2
2	Conductivity, $\mu$ /cm <sub>3</sub>	14.00	14.68	15.56	12.34
3	Moisture Content, %	35.00	36.25	36.34	30.28
4 a	% Sand	45.00	46.30	47.23	43.12
b	% Silt	30.00	31.57	31.87	28.93
c	% Clay	25.00	26.32	26.49	22.45
5	Nitrates, mg/kg	16.94	18.19	18.28	16.03
6	Phosphate, mg/kg	2.08	2.13	2.22	2.13
7	Sulphates, mg/kg	14.32	14.37	14.46	13.25
8	%Organic Carbon	2.79	2.84	2.93	2.34
9	%Organic Matter	4.82	4.87	4.96	4.20
10	Cation Exchange capacity, meq/100g	4.96	5.01	5.13	4.12
11	Zinc, mg/kg	19.41	19.46	19.55	18.78
12	Iron, mg/kg	1085.15	1086.27	1086.89	980.34
13	Lead, mg/kg	<0.001	<0.001	<0.001	<0.001
14	Chromium, mg/kg	29.90	30.01	30.35	29.02
15	Cadmium, mg/kg	<0.001	<0.001	<0.001	<0.001
16	Calcium, mg/kg	301.26	301.35	302.19	278.56
17	Potassium, mg/kg	133.42	134.25	136.45	120.34
18	Copper, mg/kg	5.80	5.89	6.13	4.32
19	Sodium, mg/kg	491.83	493.67	494.34	394.23
20	Manganese, mg/kg	6.073	6.134	6.187	5.80
21	Nickel, mg/kg	12.28	12.65	12.98	9.8
22	Magnesium, mg/kg	116.62	117.43	117.63	113.2

**Microbiology**

PARAMETERS	ATS/GW CFU/ML	ATS/GWC CFU/ML	ATS/TS1 CFU/GM	ATS/TS2 CFU/GM	ATS/TS3 CFU/GM
TOTAL HETEROTROPHIC BACTERIA	4.0 x 10 <sup>1</sup>	3.34 x 10 <sup>1</sup>	1.95 x 10 <sup>10</sup>	1.98 x 10 <sup>10</sup>	2.02 x 10 <sup>10</sup>
TOTAL HETEROTROPHIC FUNGI	1.0 x 10 <sup>1</sup>	0.8 x 10 <sup>1</sup>	6.38 x 10 <sup>4</sup>	6.49 x 10 <sup>4</sup>	6.54 x 10 <sup>4</sup>
TOTAL COLIFORMS	0.00	0.00	N.A	NA	NA
TOTAL HYDROCARBON UTILIZING BACTERIA	0.00	0.00	45.0 x 10 <sup>4</sup>	47.5 x 10 <sup>4</sup>	48.4 x 10 <sup>4</sup>
TOTAL HYDROCARBON UTILIZING FUNGI	0.00	0.00	3.7 x 10 <sup>2</sup>	3.84 x 10 <sup>2</sup>	3.86 x 10 <sup>2</sup>
PREDOMINANT SPECIES OF MICRO-ORGANISMS ISOLATED	Bacillus spp Flavobacterium spp Lactobacillus spp Mucor spp	Bacillus spp Flavobacterium spp Lactobacillus spp Mucor spp	Bacillus spp Micrococcus spp Clostridium spp Mucor spp Fusarium spp Pencillium spp	Bacillus spp Micrococcus spp Clostridium spp Mucor spp Fusarium spp Pencillium spp	Bacillus spp Micrococcus spp Clostridium spp Mucor spp Fusarium spp Pencillium spp



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