

NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20240433

Lake Waingaro at Surface - intake/abstraction

Report generated 15/07/24 09:28

Sample ID = 20241822	Date Collected 30/05/2024	Time 11:00		
Site 101981	Lake Waingaro at Surface - intake/abstraction			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.025	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0027	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	53.2	us/cm	
Dissolved Oxygen	ODO	8.33	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	82.5	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	26	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.38	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.12	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.01	g/m3-N	
pH	pH (field meter)	6.77	pH	
Secchi Depth - with viewer	Secchi with viewer	4.33	m	
Temperature	Temperature - YSI	14.945	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.208	g/m3	
Total Nitrogen	TN by Calculation	0.22	g/m3-N	
Total Phosphorus	TP by DA	0.005	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.8	g/m3	

Sample ID = 20241823	Date Collected 30/05/2024	Time 10:55		
Site 101982	Lake Waingaro at Bottom (18 m) at intake point			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.689	g/m3-N	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	90.4	us/cm	
Depth - Boat	Depth - Boat	23.7	m	
Dissolved Oxygen	ODO	0.19	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	1.8	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Iron Total	Iron (Total) by ICP-MS	9.3	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.56	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0062	g/m3-N	
pH	pH (field meter)	6.67	pH	
Temperature	Temperature - YSI	13.226	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.723	g/m3	
Total Nitrogen	TN by Calculation	0.73	g/m3-N	
Total Phosphorus	TP by DA	0.01	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	3.6	g/m3	

Sample ID = 20241824	Date Collected 30/05/2024	Time 11:45		
Site 327836	Lake Manuwai Weir at Onekura Road			
Measurement	Method	Value	Units	
Total Suspended Solids	Suspended Solids by Gravimetry	1.8	g/m3	
Ammoniacal Nitrogen	Ammonia by DA	0.053	g/m3-N	
Chlorophyll a	Chlorophyll by UVIS	<0.0006	g/m3	

Conductivity at 25 deg C (uS/cm)	SPC (field meter)	71.3	us/cm	
Dissolved Oxygen	ODO	7.15	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	66.4	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.002	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	580	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.69	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.018	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0456	g/m3-N	
pH	pH (field meter)	6.14	pH	
Temperature	Temperature - YSI	12.018	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.214	g/m3	
Total Nitrogen	TN by Calculation	0.26	g/m3-N	
Total Phosphorus	TP by DA	0.013	g/m3-P	

Methods used: Standard Methods for the Examination of Water and Waste Water. APHA, AWWA, WEF, 1998 20th edition