NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20230889

Lake Waingaro at Surface - intake/abstraction

Report generated 07/12/23 02:10

Sample ID = 20234407	**Date Collected 19/09/2023**	**Time 10:30**		
Site 101981	**Lake Waingaro at Surface -**			
Measurement	**Method**	**Value**	**Units**	
Ammoniacal Nitrogen	Ammonia by DA	0.007	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0043	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	50.2	us/cm	
Dissolved Oxygen	ODO	10.16	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	102.3	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.002	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	<1.6	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.13	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.0066	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0744	g/m3-N	
pH	pH (field meter)	7.14	pH	
Secchi Depth - with viewer	Secchi with viewer	4.5	m	
Temperature	Temperature - YSI	15.696	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.394	g/m3	
Total Nitrogen	TN by Calculation	0.47	g/m3-N	
Total Phosphorus	TP by DA	<0.004	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	2	g/m3	

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Sample ID = 20234408	Date Collected 19/09/2023	Time 10:35		
Site 101982	**Lake Waingaro at Bottom (18 m) at intake**			
Measurement	**Method**	**Value**	**Units**	
Ammoniacal Nitrogen	Ammonia by DA	0.119	g/m3-N	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	50.6	us/cm	
Dissolved Oxygen	ODO	7.19	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	67.5	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.002	g/m3-P	
Iron Total	Iron (Total) by ICP-MS	0.31	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.077	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0765	g/m3-N	
pH	pH (field meter)	6.34	pH	
Temperature	Temperature - YSI	12.493	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.209	g/m3	
Total Nitrogen	TN by Calculation	0.29	g/m3-N	
Total Phosphorus	TP by DA	<0.004	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.2	g/m3	

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