

NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20190429

Lake Manuwai at Surface intake

Report generated 13/05/19 12:54

Sample ID = 20192378	Date Collected 9/04/2019	Time 12:35		
Site 101985	Lake Manuwai at Surface intake			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.033	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0021	g/m3	
Conductivity at 25 deg C	SPC-1	5.19	mS/m @25 deg C	
Dissolved Oxygen	ODO	7.56	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	84.9	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.003	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	8.2	CFU/100ml	
Iron Acid Soluble	FEAS-4	0.12	g/m3	
Manganese Acid Soluble	MNAS-2	0.032	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0091	g/m3-N	
pH	pH (field meter)	6.3	pH	
Secchi Depth	Secchi	4.27	m	
Temperature	Temperature - YSI	21.11	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.17	g/m3	
Total Nitrogen	Total Nitrogen by Calculation	0.18	g/m3-N	
Total Phosphorus	Total Phosphorus by DA	<0.004	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	0.8	g/m3	

Sample ID = 20192379	Date Collected 9/04/2019	Time 12:33		
Site 101986	Lake Manuwai at Bottom (13 m) intake			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.037	g/m3-N	

Conductivity at 25 deg C	SPC-1	5.19	mS/m @25 deg C	
Dissolved Oxygen	ODO	7.97	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	82.2	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.002	g/m3-P	
Iron Acid Soluble	FEAS-4	9	g/m3	
Manganese Acid Soluble	MNAS-2	0.47	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.059	g/m3-N	
pH	pH (field meter)	6.53	pH	
Temperature	Temperature - YSI	20.29	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.22	g/m3	
Total Nitrogen	Total Nitrogen by Calculation	0.27	g/m3-N	
Total Phosphorus	Total Phosphorus by DA	0.008	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.1	g/m3	

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