

Aurere Estuary

Water Quality Report Card 2022



Site description

The Aurere Estuary is a small estuary on the east coast of the Northland peninsula that flows into Doubtless Bay. It is fed by two main tributaries, namely the Aurere Stream and the Parapara Stream. Since January 2018, Northland Regional Council has collected routine water quality samples to assess the health of the estuary and its suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.05	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0012	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.16	✓	✗	✗	✓	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.017	✓	✗	✗	✗	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0265	✓	✓	✓	✗	✓
Total Phosphorus	Median < 0.03	mg/L	0.024	✓	✗	✗	✗	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.015	✓	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	7.95	✗	✓	✓	✓	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	1317	✗	✗	✗	✗	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	3300	✗	✗	✗	✗	✗
	Median ≤ 14	CFU/100ml	235	✗	✗	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Aurere Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Brampton Reef

Water Quality Report Card 2022



Site description

Brampton Reef is an open coast site situated beyond the Veronica Channel in the Bay of Islands. Since May 2017, Northland Regional Council have been collecting routine water quality samples from this site to measure ecosystem health and determine the sites suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.4	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 40	MPN/100ml	5	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	1.6	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Brampton Reef for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Burgess Island

Water Quality Report Card 2022



Site description

Burgess Island is downstream of the Wairoa River in the Kaipara Harbour. In June 2009, Auckland Council and Northland Regional Council commenced a monitoring programme in the Kaipara Harbour. Since this time, routine water quality samples have been collected to measure ecosystem health and determine the estuaries' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.69	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0024	✓	✓	✗	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.505	✗	✗	✗	✗	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.022	✓	✓	✗	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.235	✗	✗	✗	✓	✗
Total Phosphorus	Median < 0.03	mg/L	0.035	✗	✗	✗	✓	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0235	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	8.55	✗	✗	✗	✓	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	239	✗	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	355	✗	✗	✗	✗	
	Median ≤ 14	CFU/100ml	33.5	✗	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Burgess Island for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Causeway Bridge

Water Quality Report Card 2022



Site description

Situated along Molesworth Drive, this site is at the lower end of Tara Creek, which is one of the main freshwater inputs to Mangawhai Harbour. Since October 2016, routine water quality samples have been collected by Northland Regional Council. The resulting data has been used to monitor the ecosystem health of this tidal creek and indicate its' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.2	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0026	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.27	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.014	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.024	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.008	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	3.57	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	3755	✗	✗	✓	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Causeway Bridge for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Doves Bay

Water Quality Report Card 2022



Site description

Doves Bay is situated towards the entrance of the Kerikeri Inlet, on the east coast of the Northland peninsula. Since the commencement of the Bay of Islands water quality programme in May 2008, Northland Regional Council has collected routine water quality samples at this estuary to measure ecosystem health, and the sites suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.82	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0029	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.15	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0215	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.013	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0075	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.29	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	5	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	58.4	✗	✗	✓	✓	✗
	Median ≤ 14	CFU/100ml	16.7	✗	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Doves Bay for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Five Fathom Channel

Water Quality Report Card 2022



Site description

Five Fathom Channel is close to the entrance of the Kaipara Harbour on the west coast of the Northland Peninsula. In June 2009, Auckland Council and Northland Regional Council commenced a monitoring programme for the Kaipara harbour. Since this time, routine water quality samples have been collected to measure the ecosystem health of the estuary and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.07	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0028	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.26	✗	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.014	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0835	✗	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.022	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.013	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.23	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	5	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	23.8	✓	✓	✓	✓	
	Median ≤ 14	CFU/100ml	1.7	✓	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Five Fathom Channel for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Hargreaves Basin

Water Quality Report Card 2022

Site description

The Hargreaves Basin site is in the mid-reaches of the Oruawharo arm of the Kaipara Harbour. In June 2009, Northland Regional Council in conjunction with Auckland Council commenced a routine water quality monitoring programme in the Kaipara Harbour. The samples collected have been used to measure the health of the river and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.39	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0041	✗	✗	✗	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.35	✗	✗	✗	✗	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.026	✗	✗	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.04	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.046	✗	✗	✗	✗	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.03	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	7.51	✗	✗	✗	✗	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	31	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	156	✗	✓	✓	✓	
	Median ≤ 14	CFU/100ml	26	✗	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Hargreaves Basin for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Hātea River

Water Quality Report Card 2022



Site description

This site is located in the lower reaches of the Hātea River Channel in the Whangārei Harbour. Since the commencement of the Whangārei Harbour monitoring programme in March 2008, Northland Regional Council have been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5.9	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.003	mg/L	0.0021	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.86	mg/L	0.345	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.099	mg/L	0.04	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.058	mg/L	0.125	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.119	mg/L	0.041	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.092	mg/L	0.027	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 7.5	NTU	4.52	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 500	MPN/100ml	247	✓	✓	✓	✓	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Hātea River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Horeke Estuary

Water Quality Report Card 2022



Site description

Horeke is in the inner reaches of the Hokianga Harbour on the west coast of the Northland Peninsula. Since January 2021, Northland Regional Council have been collecting monthly water quality samples at Horeke estuary to measure ecosystem health and determine the sites' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.14	✓	✓			
Chlorophyll-a	Median < 0.004	mg/L	0.0038	✓	✗			
Total Nitrogen	Median < 0.22	mg/L	0.27	✗	✗			
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.014	✓	✗			
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.052	✗	✗			
Total Phosphorus	Median < 0.03	mg/L	0.028	✓	✗			
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0109	✓	✓			
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	11.45	✗	✗			
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	49	✓	✓			
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	273	✗	✗			
	Median ≤ 14	CFU/100ml	59	✗	✗			

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Horeke Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Insley Street Causeway

Water Quality Report Card 2022



Site description

Situated along Insley Street, this site is at the lower end of Bob Creek, which is one of the main freshwater inputs to Mangawhai Harbour. Since October 2016, routine water quality samples have been collected by Northland Regional Council. The resulting data has been used to monitor the ecosystem health of the creek and indicate its' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.7	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0022	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.21	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.018	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.014	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.021	✓	✓	✓	✓	✗
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.009	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	3.38	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	2180	✗	✓	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Insley Street Causeway for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Kaiwaka Point Estuary

Water Quality Report Card 2022



Site description

Kaiwaka Point is in the upper Whāngārei Harbour, immediately downstream from the Hātea River which contributes freshwater input. Since 2008, Northland Regional Council have collected water quality samples at this site to measure the health of the estuary and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.41	✓	✗	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0022	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.22	✗	✗	✗	✓	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.013	✓	✓	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.04	✓	✓	✗	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.024	✓	✗	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0135	✓	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.32	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	19	✓	✓	✗	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	147	✗	✓	✗	✓	✗
	Median ≤ 14	CFU/100ml	4.2	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kaiwaka Point Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Kapua Point

Water Quality Report Card 2022



Site description

Kapua Point is located in the upper reaches of the Arapaoa River arm of the Kaipara Harbour. In June 2009, Northland Regional Council worked in conjunction with Auckland Council commenced a routine water quality monitoring programme in the Kaipara Harbour. The samples collected have been used to measure the health of the Harbour and determine its' suitability



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.48	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0036	✓	✗	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.25	✗	✓	✗	✗	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0265	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.035	✗	✗	✗	✗	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0255	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	5.13	✓	✓	✗	✗	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	7	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	15.9	✓	✓	✓	✓	
	Median ≤ 14	CFU/100ml	5	✓	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kapua Point for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Kawakawa River

Water Quality Report Card 2022



Site description

This site is situated in the lower reaches of the Kawakawa river, which is one of the main freshwater inputs to the Bay of Islands. Since commencement of the Bay of Islands water quality programme in May 2008, Northland Regional Council has been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.6	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0043	✗	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.265	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.005	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.0475	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.029	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.0145	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	7.32	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	84	✓	✓	✓	✓	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kawakawa River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Kerikeri River

Water Quality Report Card 2022



Site description

This site is situated in the lower reaches of the Kerikeri River, which contributes an important freshwater input to the Bay of Islands system. Since commencement of the Bay of Islands water quality programme in May 2008, Northland Regional Council has been collecting routine water quality samples at this tidal creek. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.1	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0026	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.5	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.024	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.275	✗	✓	✗	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.018	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.007	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	4.4	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	209	✗	✗	✓	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kerikeri River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Kissing Point

Water Quality Report Card 2022



Site description

Kissing Point is located midway down the Hatea part of the Hātea River Channel in the Whangārei Harbour. Since January 1986, Northland Regional Council has been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5.5	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.003	mg/L	0.0021	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.86	mg/L	0.385	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.099	mg/L	0.058	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.058	mg/L	0.15	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.119	mg/L	0.045	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.092	mg/L	0.0305	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 7.5	NTU	4.98	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 500	MPN/100ml	374	✓	✓	✓	✓	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kissing Point for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Limeburners Creek

Water Quality Report Card 2022



Site description

This site is situated at the mouth of the Limeburners Creek, at the confluence with the Hātea River. Since January 1986, Northland Regional Council has been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	4.9	✓	✗	✗	✗	✓
Chlorophyll-a	Median < 0.003	mg/L	0.002	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.86	mg/L	0.795	✓	✗	✗	✓	✓
Total Ammoniacal Nitrogen	Median < 0.099	mg/L	0.17	✗	✓	✗	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.058	mg/L	0.34	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.119	mg/L	0.074	✓	✓	✗	✓	✓
Dissolved Reactive Phosphorus	Median < 0.092	mg/L	0.0545	✓	✓	✗	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 7.5	NTU	8.45	✗	✗	✓	✓	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 500	MPN/100ml	525	✗	✓	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Limeburners Creek for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Mair Bank

Water Quality Report Card 2022



Site description

Mair Bank is situated offshore from Marsden Point just beyond the entrance of the Whangārei Harbour. Since April 1991, Northland Regional Council have been collecting routine water quality samples from this site to measure ecosystem health and determine the sites suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 40	MPN/100ml	5	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	3.3	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mair Bank for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Mangapai River

Water Quality Report Card 2022



Site description

The Mangapai River is in the upper reaches of the Whangārei Harbour. Since January 2013, Northland Regional Council have been collecting routine water quality samples from this site. The resulting data has been used to monitor the ecosystem health of the river and indicate its suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5.7	✓	✗	✗	✓	✗
Chlorophyll-a	Median < 0.004	mg/L	0.0022	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.255	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.012	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.0135	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.031	✓	✗	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.014	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	6.24	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	55	✓	✓	✓	✓	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangapai River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Mangawhai Boatramp

Water Quality Report Card 2022



Site description

The Mangawhai boatramp is situated towards the entrance of the Mangawhai Harbour, which is a small estuarine system on the east coast of the Northland peninsula. Since October 2016, Northland Regional Council have been collecting routine water quality samples to measure ecosystem health of this estuary and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.29	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0003	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.09	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0029	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.011	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.007	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	0.98	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	26	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	8.3	✓	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangawhai Boatramp for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Mangawhai Heads

Water Quality Report Card 2022



Site description

Mangawhai Heads is an open coast site on the east coast of the Northland Peninsula. It is a popular beach for recreational purposes including surfing, and swimming. Since May 2017, Northland Regional Council have been collecting routine water quality samples from this site to measure ecosystem health and determine the sites suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.2	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 40	MPN/100ml	8	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	6.7	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangawhai Heads for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Omapere Estuary

Water Quality Report Card 2022



Site description

Omapere is located near the entrance of the Hokianga Harbour on the west coast of the Northland Peninsula. Since January 2021, Northland Regional Council have been collecting monthly water quality samples at Omapere to measure the health of the estuary and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.33	✓	✓			
Chlorophyll-a	Median < 0.004	mg/L	0.0015	✓	✓			
Total Nitrogen	Median < 0.22	mg/L	0.088	✓	✓			
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.007	✓	✓			
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.014	✓	✓			
Total Phosphorus	Median < 0.03	mg/L	0.01	✓	✓			
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.007	✓	✓			
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.58	✓	✓			
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	23	✓	✓			
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	9.8	✓	✓			
	Median ≤ 14	CFU/100ml	0.8	✓	✓			

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Omapere Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

One Tree Point

Water Quality Report Card 2022



Site description

One Tree Point is situated towards the entrance of the Whāngārei Harbor and is close to popular shellfish harvesting sites. Since March 2008, Northland Regional Council have been collecting water quality samples at this estuary to measure ecosystem health and determine the sites suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.16	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0013	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.105	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.008	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0032	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.01	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0065	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	1.25	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	5	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	9	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at One Tree Point for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Oruawharo River

Water Quality Report Card 2022



Site description

The Oruawharo River is in the Kaipara Harbour on the west coast of the North Island. In June 2009, Auckland Council and Northland Regional Council commenced a monitoring programme for the Kaipara Harbour. Since this time, routine water quality samples have been collected to measure the ecosystem health of the estuary and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.66	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0026	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.24	✗	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0205	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.025	✓	✗	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0165	✓	✗	✓	✓	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.88	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	7	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	14.3	✓	✓	✓	✓	
	Median ≤ 14	CFU/100ml	4.2	✓	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Oruawharo River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Otaika Creek

Water Quality Report Card 2022



Site description

This site is situated nearby to the upper tidal limit of the Otaika Creek, which is connected to the Whangārei Harbour. Since January 2013, Northland Regional Council have been collecting routine water quality samples for state of the environment monitoring. The resulting data has been used to monitor the ecosystem health of the creek and indicate its' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5	✓	✗	✗	✗	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0016	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.825	✗	✓	✗	✗	✗
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.039	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.295	✗	✓	✗	✗	✗
Total Phosphorus	Median < 0.04	mg/L	0.033	✓	✓	✓	✓	✗
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.0115	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	9.83	✓	✓	✓	✓	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	3424	✗	✗	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Otaika Creek for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Paihia

Water Quality Report Card 2022



Site description

The Paihia is a popular beach resort in the Bay of Islands, on the east coast of the Northland Peninsula. Since May 2008, Northland Regional Council has collected routine water quality samples to assess the health of the estuary and its suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.63	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0027	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.15	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.004	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.015	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.017	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0085	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	3.92	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	50	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	130	✗	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	6.6	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Paihia for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Portland Wharf

Water Quality Report Card 2022



Site description

Portland Wharf is situated in the upper the Whāngārei Harbour. Since March 2008, Northland Regional Council have been collecting water quality samples at this estuary to measure ecosystem health and determine the sites' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.4	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0022	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.21	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.011	✓	✓	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0285	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.023	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.013	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.92	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	45	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	77.4	✗	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	3.3	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Portland Wharf for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Rawene

Water Quality Report Card 2022



Site description

Rawene is in the middle reaches of the Hokianga Harbour, on the west coast of the Northland Peninsula. Since January 2021, Northland Regional Council have been collecting monthly water quality samples at this site to measure ecosystem health and determine the sites' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.44	✓	✓			
Chlorophyll-a	Median < 0.004	mg/L	0.0037	✓	✓			
Total Nitrogen	Median < 0.22	mg/L	0.225	✗	✗			
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.011	✓	✓			
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.043	✓	✗			
Total Phosphorus	Median < 0.03	mg/L	0.025	✓	✗			
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.011	✓	✓			
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	9.06	✗	✗			
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	44	✓	✓			
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	70.6	✗	✗			
	Median ≤ 14	CFU/100ml	26.5	✗	✗			

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Rawene Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Ruakaka Estuary

Water Quality Report Card 2022



Site description

Ruakaka Estuary is a tidal lagoon situated on the east coast of the Northland Peninsula. It is popular for a variety of recreational activities including swimming, bird-watching, fishing, and shellfish gathering. Since May 2017, Northland Regional Council have been collecting water quality samples at this site to measure ecosystem health and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.29	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.001	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.16	✓	✗	✓	✓	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.018	✓	✗	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.013	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.02	✓	✗	✗	✓	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.013	✓	✗	✓	✓	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.49	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	5115	✗	✓	✗	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	4900	✗	✗	✗	✗	✗
	Median ≤ 14	CFU/100ml	48	✗	✗	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Ruakaka Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Tamaterau

Water Quality Report Card 2022



Site description

Tamaterau is located in the middle reaches of the Whāngārei harbour. Since 2008, Northland Regional Council have been collecting water quality samples at this site to measure ecosystem health and determine the sites' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.62	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0013	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.15	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.012	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.012	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.015	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.01	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.46	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	15	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	6.4	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	0.9	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Tamaterau for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Tapu Point

Water Quality Report Card 2022



Site description

Tapu Point is in the Bay of Islands close to Ōpua. Since May 2008, Northland Regional Council have been undertaking routine monitoring of this site to measure the water quality and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.78	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0041	✗	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.16	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0125	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.02	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0105	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.29	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	73	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	158.8	✗	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	7.5	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Tapu Point for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Te Haumi

Water Quality Report Card 2022



Site description

Te Haumi Estuary is in the Bay of Islands, to the south-east of Paihia. This site has high ecological significance, with diverse estuarine habitats and well-established shellfish beds. Since May 2008, Northland Regional Council has undertaken routine monitoring of this estuary to measure the ecosystem health and determine the sites suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.6	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.003	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.18	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.004	✓	✓	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.016	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.016	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0095	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.94	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	15	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	111.1	✗	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	3.4	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Te Haumi for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Te Hoanga Point

Water Quality Report Card 2022



Site description

Te Hoanga Point is located in the Otamatea arm of the Kaipara Harbour. In June 2009, Northland Regional Council in conjunction with Auckland Council commenced a routine water quality monitoring programme of sites in the Kaipara Harbour. The samples collected have been used to measure the health of the river and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.5	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0039	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.26	✗	✓	✗	✓	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.012	✓	✓	✓	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.04	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.034	✗	✗	✗	✓	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.024	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	5.36	✓	✓	✗	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	10	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	56.8	✗	✓	✓	✓	
	Median ≤ 14	CFU/100ml	5.8	✓	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Te Hoanga Point for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Te Kopua

Water Quality Report Card 2022



Site description

Te Kopua is located towards the lower end of the Arapaoa arm of the Kaipara Harbour. In June 2009, Northland Regional Council in conjunction with Auckland Council commenced a routine water quality monitoring programme in the Kaipara Harbour. The samples collected have been used to measure the health of the harbour and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.73	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0029	✓	✗	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.21	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.007	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.023	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.029	✓	✗	✓	✗	✗
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0205	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.6	✓	✓	✗	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	5	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	18.8	✓	✓	✓	✓	
	Median ≤ 14	CFU/100ml	1.7	✓	✓	✓	✓	

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Te Kopua for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Tern Point

Water Quality Report Card 2022



Site description

The Tern Point Channel is situated within the Mangawhai Harbour, which is a small estuarine system on Northlands' east coast. Since October 2016, Northland Regional Council have been collecting routine water quality samples at this site to measure ecosystem health and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health

Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.08	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.001	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.11	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0026	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.013	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.009	✓	✓	✓	✓	✓

Water Clarity

Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	1.02	✓	✓	✓	✓	✓

Recreation

Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	91	✓	✓	✓	✓	✗

Shellfish consumption

Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	96	✗	✓	✗	✗	✗
	Median ≤ 14	CFU/100ml	13	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Tern Point Channel for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Town Basin

Water Quality Report Card 2022



Site description

This site is in the upper reaches of the Whangārei Harbour and is the immediate receiving environment for input from the Hātea River catchment. Since January 1986, Northland Regional Council has been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	4.6	✗	✗	✗	✗	✗
Chlorophyll-a	Median < 0.003	mg/L	0.002	✓	✓	✗	✓	✓
Total Nitrogen	Median < 0.86	mg/L	0.785	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.099	mg/L	0.093	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.058	mg/L	0.42	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.119	mg/L	0.032	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.092	mg/L	0.0215	✓	✗	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 7.5	NTU	5.86	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 500	MPN/100ml	1635	✗	✗	✗	✗	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Town Basin for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Wahiwaka Creek

Water Quality Report Card 2022



Site description

Wahiwaka Creek is located in the upper reaches of the Otamatea channel in the Kaipara Harbour. Northland Regional Council has been collecting routine water quality samples at this site since 2009. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5.4	✓	✓	✗	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.004	✗	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.435	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.028	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.0965	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.066	✗	✗	✗	✗	✗
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.0455	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	7.64	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	3794	✗	✗	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wahiwaka Creek for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waiairohia Canal

Water Quality Report Card 2022



Site description

This site is at the bottom of the Waiairohia River just upstream of the confluence with the Hātea River. Since the commencement of the Whangārei Harbour monitoring programme in March 2008, Northland Regional Council have been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	4.8	✓	✗	✗	✗	✓
Chlorophyll-a	Median < 0.003	mg/L	0.0026	✓	✓	✓	✓	✗
Total Nitrogen	Median < 0.86	mg/L	0.88	✗	✗	✗	✓	✓
Total Ammoniacal Nitrogen	Median < 0.099	mg/L	0.14	✗	✓	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.058	mg/L	0.52	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.119	mg/L	0.074	✓	✗	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.092	mg/L	0.0645	✓	✗	✓	✗	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 7.5	NTU	8.71	✗	✓	✓	✓	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 500	MPN/100ml	608	✗	✓	✗	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waiairohia Canal for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waikare Inlet

Water Quality Report Card 2022



Site description

The Waikare Inlet is located within the Bay of Islands, on the east coast of the Northland Peninsula. Since May 2008, Northland Regional Council have been undertaking routine monitoring of this inlet to measure the water quality and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.77	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0043	✗	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.175	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0101	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.02	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.011	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	4.74	✓	✗	✓	✗	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	15	✓	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	22.3	✓	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	8.2	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waikare Inlet for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Wainui Island

Water Quality Report Card 2022



Site description

Wainui Island is in the middle reaches of the Kerikeri Inlet in the Bay of Islands. Since May 2008, Northland Regional Council has collected routine water quality samples to assess the health of the estuary and its suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.74	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0029	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.195	✓	✓	✗	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.003	✓	✓	✓	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.036	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.018	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0085	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	3.83	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	15	✓	✗	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	93.8	✗	✗	✓	✗	✗
	Median ≤ 14	CFU/100ml	7.5	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wainui Island for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waipapa River

Water Quality Report Card 2022



Site description

This site is situated in the lower reaches of the Waipapa River, which contributes an important freshwater input to the Bay of Islands system. Since commencement of the Bay of Islands water quality programme in May 2008, Northland Regional Council has been collecting routine water quality samples at this site. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5.7	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0033	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.6	mg/L	0.44	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.027	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.23	✗	✓	✓	✓	✓
Total Phosphorus	Median < 0.04	mg/L	0.018	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.0055	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	6.21	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	125	✓	✗	✓	✓	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipapa River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waipū Cove

Water Quality Report Card 2022



Site description

Waipū Cove is an open coast site on the east coast of the Northland Peninsula. It is a popular beach for recreational purposes including surfing, camping, and swimming. Since November 2017, Northland Regional Council have been collecting routine water quality samples from this site to measure ecosystem health and determine the sites suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.2	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 40	MPN/100ml	42	✗	✓	✓	✗	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	15	✓	✓	✓	✓	✓
	Median ≤ 14	CFU/100ml	3.3	✓	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipū Cove for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waipū Estuary

Water Quality Report Card 2022

Site description

The Waipū Estuary is situated on the east coast of the Northland Peninsula. This estuary is renowned as a nesting area for many native shorebird species and has established shellfish populations. Since May 2017, Northland Regional Council have been undertaking routine monitoring of this estuary to measure ecosystem health and determine its' suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.8	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0009	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.12	✓	✓	✓	✓	✗
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.006	✓	✗	✗	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.0038	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.014	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.008	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.09	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	6500	✗	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	6000	✗	✗	✗	✗	✗
	Median ≤ 14	CFU/100ml	6.7	✓	✗	✓	✗	✗

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipū Estuary for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waipū Lagoon

Water Quality Report Card 2022



Site description

The Waipū Lagoon is a shallow lagoon in the southern arm of the Waipū estuary which supports native birds and shellfish beds. Since May 2017, Northland Regional Council have been collecting routine water quality samples at this site to measure the health of the estuary and determine its suitability for recreational activities and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	7.4	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0006	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.14	✓	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.018	✓	✗	✓	✓	✗
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.011	✓	✓	✓	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.017	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.01	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	2.24	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	2625	✗	✓	✓	✓	✓
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	730	✗	✓	✓	✓	✗
	Median ≤ 14	CFU/100ml	40	✗	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipū Lagoon for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Wairoa River

Water Quality Report Card 2022



Site description

The Wairoa River site is located between Raupo and Tikinui in the Wairoa arm of the Kaipara Harbour. Since October 2016, routine water quality samples have been collected at this site by Northland Regional Council. The resulting data has been used to monitor ecosystem health and indicate the sites' suitability for recreational purposes.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	5	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0045	✗	✓	✓	✓	✗
Total Nitrogen	Median < 0.6	mg/L	0.83	✗	✗	✗	✓	✗
Total Ammoniacal Nitrogen	Median < 0.043	mg/L	0.015	✓	✓	✗	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.218	mg/L	0.355	✗	✗	✗	✗	✗
Total Phosphorus	Median < 0.04	mg/L	0.074	✗	✗	✗	✗	✗
Dissolved Reactive Phosphorus	Median < 0.021	mg/L	0.027	✗	✗	✗	✗	✗
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 10.8	NTU	32.45	✗	✗	✗	✗	✗
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	2580	✗	✓	✓	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wairoa River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.

Waitangi River

Water Quality Report Card 2022



Site description

The Waitangi Estuary is located within the Bay of Islands, on the east coast of the Northland peninsula. Since May 2008, Northland Regional Council has collected routine water quality samples to assess the health of the estuary and its suitability for recreation and shellfish consumption.



Ecosystem Health								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Dissolved Oxygen	Minimum > 4.6	mg/L	6.38	✓	✓	✓	✓	✓
Chlorophyll-a	Median < 0.004	mg/L	0.0015	✓	✓	✓	✓	✓
Total Nitrogen	Median < 0.22	mg/L	0.235	✗	✓	✓	✓	✓
Total Ammoniacal Nitrogen	Median < 0.023	mg/L	0.022	✓	✓	✓	✓	✓
Nitrate-Nitrite Nitrogen	Median < 0.048	mg/L	0.061	✗	✓	✗	✓	✓
Total Phosphorus	Median < 0.03	mg/L	0.017	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	Median < 0.017	mg/L	0.0105	✓	✓	✓	✓	✓
Water Clarity								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Turbidity	Median < 6.9	NTU	6.69	✓	✓	✓	✓	✓
Recreation								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Enterococci	95th percentile ≤ 200	MPN/100ml	159	✓	✓	✓	✓	✗
Shellfish consumption								
Parameter	Standard	Units	Result 2022	Status				
				2022	2021	2020	2019	2018
Faecal Coliforms	90th percentile ≤ 43	CFU/100ml	660	✗	✗	✗	✗	✗
	Median ≤ 14	CFU/100ml	40.5	✗	✗	✗	✓	✓

Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waitangi River for the past 5 years. The median for each 12-month period per calendar year is assessed against the coastal water quality standards outlined by the Regional Plan for Northland. A tick indicates an achieved standard and a cross a not-achieved standard.