

Top and bottom sites across Auckland for freshwater, marine, air quality and terrestrial reporting areas (2013)

Freshwater quality - the quality of rivers and streams.

Top 5 monitored sites (34 in total)

Rank	Monitoring sites	Reporting area location
1	West Hoe Stream (Nukumea Scenic Reserve)	Warkworth
2	Cascades Stream (Falls Road)	Waitakere Ranges
3	Opanuku (Candia Road)	Waitakere Ranges
4	Wairoa Tributary (Caitcheon Road)	Wairoa
5	Mahurangi River (SH1)	Warkworth

Bottom five monitored sites

Rank	Monitoring sites	Reporting area location
30	Omaru Creek (Maybury Street)	Maungakiekie-Tamaki
31	Pakuranga (Botany Road)	Howick
32	Whangamarie Stream (Woodhouse Road)	Pukekohe
33	Otaki Creek (Middlemore Crescent)	Manukau
34	Pakuranga Creek (Greenmount Drive)	Howick

Freshwater ecology - the quality and abundance of plants and animals in our rivers and streams.

Top five monitored sites (95 in total)

Rank	Monitoring sites	Reporting area location
1	Wairoa Tributary (Caitcheon Road)	Wairoa
2	Orere A (Kawakawa-Orere Road)	Wairoa
3	Karaka Bay Stream (Karaka Bay Road)	Great Barrier
4	Marawhara Stream (North Piha Road)	Waitakere Ranges
=5	Orere B (Kawakawa-Orere Road)	Wairoa
=5	Kaiaraara Stream (DOC hut)	Great Barrier

Bottom five monitored sites

Rank	Monitoring sites	Reporting area location
91	Tararata Creek (Elmdon Street)	Manukau
92	Puhinui Creek (Lambie Drive)	Manukau
93	Papakura Stream (Porchester Road)	Manurewa-Papakura
94	Botany Creek (Tangelo Place)	Howick
95	Pakuranga (Botany Road)	Howick

Marine water quality - the quality of water in harbours, estuaries and coasts.

Top five monitored sites - Low concentrations of nutrients, suspended sediments and considerably clearer water (36 in total)

Rank	Monitoring sites	Reporting area location
1	Mahurangi Heads	Mahurangi
2	Orewa	Hibiscus
3	Ti Point	Warkworth/Wellsford
4	Browns Bay	East Coast Bays
5	Goat Island	Warkworth/Wellsford

Bottom five monitored sites - high concentrations of nutrients, suspended sediments and chlorophyll a and high turbidity (low water clarity)

Rank	Monitoring sites	Reporting area location
32	Puketutu Point	Manukau
33	Brighams Creek	Upper Waitemata Harbour
34	Rawawaru Creek	Upper Waitemata Harbour
35	Kaipara River	Kaipara
36	Mangere Bridge	Manuaku

Marine sediment quality - the levels of contaminants such as heavy metals from stormwater, in the sediment of harbours and estuaries.

Top five monitored sites (121 in total)

Rank	Monitoring sites	Reporting area location
1	Whangateau 2 (south of causeway)	Warkworth/Wellsford
2	Orewa S1 (outer most site)	Hibiscus Coast
3	Long Bay (Vaughans and Awaruku)	East Coast Bays
4	Waiwera S3 (mid estuary)	Hibiscus Coast
5	Wairoa 3 (middle of bay)	Tamaki Strait

Bottom five monitored sites

Rank	Monitoring sites	Reporting area location
121	Princes Street (Tamaki Upper)	Tamaki Estuary
122	Motions Inner	Central Waitemata
123	Pakuranga Upper	Tamaki Estuary
124	Whau Upper	Central Waitemata
125	Meola Inner	Central Waitemata

Estuary sediment quality - the levels of contaminants such as heavy metals from stormwater, in the sediment of harbours and estuaries.

Top five monitored sites (121 in total)

Rank	Monitoring sites	Reporting area location
1	Warkworth/Wellsford	Whangateau 2 (south of causeway)
2	Hibiscus Coast	Orewa S1 (outer most site)
3	East Coast Bays	Long Bay (Vaughans and Awaruku)
4	Hibiscus Coast	Waiwera S3 (mid estuary)
5	Tamaki Strait	Wairoa3 (middle of Bay)

Bottom five monitored sites

Rank	Monitoring sites	Reporting area location
121	Princes Street (Tamaki Upper)	Tamaki Estuary
122	Motions Inner	Central Waitemata
123	Pakuranga Upper	Tamaki Estuary
124	Whau Upper	Central Waitemata
125	Meola Inner	Central Waitemata

Air quality

Top five monitored sites (13 in total)

Rank	Monitoring site	Annual average PM10 concentration ($\mu\text{g m}^{-3}$)
1	Patumahoe	11
2	Whangaparaoa	11
3	Botany Downs	11
4	Henderson	13
5	Orewa	14

Bottom five monitored sites

Rank	Monitoring site	Annual average PM10 concentration ($\mu\text{g m}^{-3}$)
9	Takapuna	15
10	Queen Street	15
11	Waterfront	16
12	Kumeu	16
13	Khyber Pass	19

Terrestrial - the quality and abundance of plants in wetlands, forests and scrublands.

Top two (9 in total)

Rank	Monitoring site	Notes
1	Waitakere	More than 77% native forest/scrub landcover with the largest amount of native forest of all the local board areas.
2	Great Barrier	More than 90% is native forest/scrub landcover, the highest amount of all the local board areas.

Bottom two

Rank	Reporting area	Monitoring sites
8	Isthmus	Almost 90% is urban landcover with only about 3% native forest/scrub landcover.
9	South-eastern Plain	About 85% is urban/exotic landcover.

Soil - the quality of soil for land use.

Top monitored sites (161 in total)

Rank	Monitoring site	Reporting area
1=	45 sites across five reporting areas scored 100% for all tests	Great Barrier, Waitakere, Rodney, Franklin and Urban

Bottom five monitored sites

Rank	Monitoring site	Reporting area
157	Mahurangi East	Rodney
158	Green Bay	Urban
159	Mount Wellington	Urban
160	Ardmore	Franklin
161	Waimauku West	Rodney

Auckland Council (and the former councils) has collected information about our people and the environment for more than 30 years. The council's monitoring programmes use a representative network of sites to capture the range of natural environmental variation and human impact across Auckland.

This representative network allows us to surmise the condition of unmonitored areas, based on accurate information from monitored sites with similar characteristics. As we can't monitor everything, everywhere, the top five and bottom five sites in the monitoring programmes are not necessarily the best or worst in Auckland.