

Cyanobacteria Guidelines

Alert level	Action
<p>Surveillance</p> <ul style="list-style-type: none"> Total cyanobacteria biovolume is < 0.5 mm³/L OR Total cyanobacteria cell concentration is < 500 cells/mL 	<ul style="list-style-type: none"> No action required
<p>Alert</p> <ul style="list-style-type: none"> Total cyanobacteria biovolume is 0.5 to < 10 mm³/L OR Total cyanobacteria cell concentration is > 500 cells/mL and cell concentrations of toxin-producing cyanobacteria are: <ul style="list-style-type: none"> <i>Cuspidothrix issatschenkoi</i> < 100,000 cells/mL <i>Raphidiopsis raciborskii</i> < 5,000 cells/mL <i>Microcystis</i> spp. < 30,000 cells/mL <i>Nodularia spumigena</i> < 10,000 cells/mL 	<ul style="list-style-type: none"> Stakeholders including district councils, Te Whatu Ora, tangata whenua, and landowners alerted. Samples analysed for toxins. Te Whatu Ora to consider signage and public health warning. Increased sampling frequency for recreational bathing sites.
<p>Action</p> <ul style="list-style-type: none"> Total cyanobacteria biovolume is ≥ 10 mm³/L OR Cell concentrations of toxin-producing cyanobacteria are: <ul style="list-style-type: none"> <i>Cuspidothrix issatschenkoi</i> ≥ 100,000 cells/mL <i>Raphidiopsis raciborskii</i> ≥ 5,000 cells/mL <i>Microcystis</i> spp. ≥ 30,000 cells/mL <i>Nodularia spumigena</i> ≥ 10,000 cells/mL OR Cyanotoxin concentration thresholds: <ul style="list-style-type: none"> Anatoxins ≥ 60 µg/L Cylindrospermopsins ≥ 6 µg/L Microcystins / Nodularins ≥ 24 µg/L Saxitoxins ≥ 30 µg/L 	<ul style="list-style-type: none"> Continue monitoring as for Alert Level (amber mode). Te Whatu Ora to notify the public of a high risk to health.