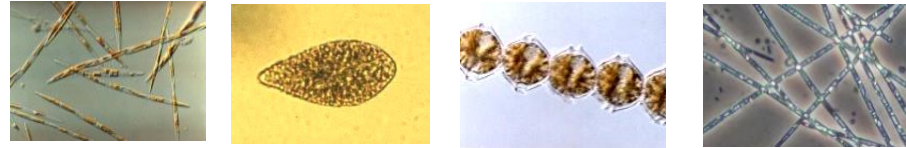


# Cawthron Institute

## Culture Collection of Micro-algae (CICCM)



**Cawthron Institute**  
98 Halifax Street East  
Private Bag 2,  
Nelson 7042  
New Zealand

**Phone:** (+64) 03 548 2319

**Fax:** (+64) 03 546 9464

### *Important notes:*

- 1. Not all strains may be available at any particular time. If live cultures are embargoed for a period of time purchase of DNA or toxin extracts may be arranged.*
- 2. Cawthron Institute requires that a Biological Material Agreement, outlining terms and conditions of supply, is accepted before any strain is dispatched.*
- 3. For strains originating from outside New Zealand, permission to share will have to be sought from the source of strain. We will try to help make contact with the original source if client prefers to go directly.*
- 4. Some strains are cryopreserved only; please refer to 'Comments'.*

CSIRO=Culture collection of microalgae, Hobart, Tasmania

NEPCC=North east Pacific Culture Collection U.B.C. Vancouver, B.C. Canada

CCMP=Provasoli-Guillard Nat. Center for Culture of Marine Phytoplankton, USA

SCCAP=Scandinavian Culture Center for Algae and Protozoa, Denmark

NIES=National Institute for Environmental Studies Collection, Japan

# Marine Algae

| <b>Class</b>                                               | <b>Page</b> |
|------------------------------------------------------------|-------------|
| Bacillariophyceae (diatoms)                                | 4-6         |
| Unidentified Class within Bacillariophyta Phylum (Diatoms) | 6           |
| Chlorodendrophyceae (Chlorophyta green algae)              | 7           |
| Pyramimonadophyceae (Chlorophyta green algae)              | 7           |
| Coccolithophyceae (=Prymnesiophyceae)                      | 8-9         |
| Cryptophyceae (cryptomonad flagellates)                    | 10          |
| Cyanophyceae (blue-green algae)                            | 11-12       |
| Dictyochophyceae                                           | 13          |
| Dinophyceae (dinoflagellates)                              | 14-33       |
| Pavlovophyceae                                             | 34          |
| Porphyridiophyceae (red algae)                             | 34          |
| Porphyridiophyceae (red algae)                             | 34          |
| Raphidophyceae                                             | 34-35       |
| Rappephyceae                                               | 35          |

## Freshwater Algae

| Class                                      | Page  |
|--------------------------------------------|-------|
| Chlorophyta/Chlorophyceae (green algae)    | 36    |
| Chlorophyta/Trebouxiophyceae (green algae) | 37    |
| Chlorophyta/Unidentified (green algae)     | 37    |
| Cyanophyta/Cyanophyceae (blue-green algae) | 38-64 |

## Marine Algae

| Class/Species                         | Cawthron code number | Isolator      | Site of Isolation and/or source                | Date of entry to CICC | Original strain designation | Culture Media | Comment           |
|---------------------------------------|----------------------|---------------|------------------------------------------------|-----------------------|-----------------------------|---------------|-------------------|
| <b>Bacillariophyceae</b><br>(Diatoms) |                      |               |                                                |                       |                             |               |                   |
| <i>Actinocyclus</i> sp.               | CAWB161              | L. Rhodes     | Antarctica                                     | 23/06/22              | K1a7                        | F/2           |                   |
| <i>Chaetoceros calcitrans</i>         | CAWB184              | O. Umebayashi | Urayasu, Japan<br>Quarantine :<br>Not Required | 13/06/23              | CSIRO (CS-178)              | F/2           | Not available     |
| <i>Chaetoceros muelleri</i>           | CAWB183              | Not known     | Hawaii, USA<br>Quarantine :<br>Not Required    | 13/06/23              | CSIRO (CS-176)              | F/2           | Not available     |
| <i>Corethron</i> sp.                  | CAWB185              | L. Rhodes     | Antarctica                                     | 12/01/23              | Corethron 1 K892 Kovak      | F/2           | DNA / Toxins only |
| <i>Corethron</i> sp.                  | CAWB186              | L. Rhodes     | Antarctica                                     | 12/01/23              | Corethron 2 K892 Kovak      | F/2           | DNA / Toxins only |
| <i>Fragilariopsis</i> sp.             | CAWB174              | L. Rhodes     | Antarctica                                     | 23/06/22              | K6c34                       | F/2           |                   |
| <i>Guinardia</i> sp.                  | CAWB165              | L. Rhodes     | Antarctica                                     | 23/06/22              | K1a12                       | F/2           |                   |
| <i>Navicula</i> sp.                   | CAWB166              | L. Rhodes     | Antarctica                                     | 23/06/22              | K1a13                       | F/2           |                   |
| <i>Navicula</i> sp.                   | CAWB167              | L. Rhodes     | Antarctica                                     | 23/06/22              | A1a20                       | F/2           |                   |
| <i>Nitzschia ovalis</i>               | CAWB157              | Maestrini(?)  | Not known.<br>(CCAP/SAMS UK)                   | 13/10/21              | CCAP1052/12<br>SMBA305      | F/2           | Not available     |
| <i>Nitzschia</i> sp.                  | CAWB159              | L. Rhodes     | Antarctica                                     | 23/06/22              | K1a2                        | F/2           |                   |
| <i>Nitzschia</i> sp.                  | CAWB169              | L. Rhodes     | Antarctica                                     | 23/06/22              | K6c26                       | F/2           |                   |
| <i>Nitzschia</i> sp.                  | CAWB171              | L. Rhodes     | Antarctica                                     | 23/06/22              | K6c28                       | F/2           |                   |
| <i>Nitzschia</i> sp.                  | CAWB173              | L. Rhodes     | Antarctica                                     | 23/06/22              | K6c32                       | F/2           |                   |
| <i>Nitzschia</i> sp.                  | CAWB175              | L. Rhodes     | Antarctica                                     | 23/06/22              | K6c35                       | F/2           |                   |

## Marine Algae

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|---------------------------------------|----------------------|--------------|---------------------------------|------------------------|-----------------------------|---------------|-------------------|
| <b>Bacillariophyceae</b><br>(Diatoms) |                      |              |                                 |                        |                             |               |                   |
| <i>Odontella</i> sp.                  | CAWB164              | L. Rhodes    | Antarctica                      | 23/06/22               | K1a11                       | F/2           |                   |
| Centric diatom cf. <i>Paralia</i>     | CAWB172              | L. Rhodes    | Antarctica                      | 23/06/22               | K6c31                       | F/2           |                   |
| <i>Proboscia</i> cf. <i>alata</i>     | CAWB160              | L. Rhodes    | Antarctica                      | 23/06/22               | K1a4                        | F/2           |                   |
| <i>Proboscia</i> sp.                  | CAWB163              | L. Rhodes    | Antarctica                      | 23/06/22               | K1a10                       | F/2           |                   |
| <i>Proboscia</i> sp.                  | CAWB187              | L. Rhodes    | Antarctica                      | 12/01/23               | K1a                         | F/2           | DNA / Toxins only |
| <i>Pseudo-nitzschia americana</i>     | CAWB138              | T. Nishimura | Pukatea Bay, NZ                 | 29/10/20               | G018Ps01                    | F/2           |                   |
| <i>Pseudo-nitzschia arenysensis</i>   | CAWB139              | T. Nishimura | Tapeka Point, NZ                | 29/10/20               | PA030Ps01                   | F/2           |                   |
| <i>Pseudo-nitzschia delicatissima</i> | CAWB143              | T. Nishimura | Oyster Bay, NZ                  | 29/10/20               | G013Ps03                    | F/2           |                   |
| <i>Pseudo-nitzschia fraudulenta</i>   | CAWB145              | T. Nishimura | Crail Bay, NZ                   | 29/10/20               | G015Ps01                    | F/2           |                   |
| <i>Pseudo-nitzschia galaxiae</i>      | CAWB153              | T. Nishimura | Kerikeri, NZ                    | 29/01/21               | PA014Ps01                   | F/2           |                   |

## Marine Algae

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|--------------------------------------------------------------|----------------------|--------------|-----------------------------------|-----------------------|-----------------------------|---------------|---------------|
| <b>Bacillariophyceae</b><br>(Diatoms)                        |                      |              |                                   |                       |                             |               |               |
| <i>Pseudo-nitzschia hasleana</i>                             | CAWB155              | T. Nishimura | Big Glory Bay, Stewart Island, NZ | 29/01/21              | J237Ps05                    | F/2           | Not available |
| <i>Pseudo-nitzschia pungens</i>                              | CAWB190              | T. Nishimura | Big Glory Bay, NZ                 | 30/03/23              | J237Ps06                    | K / F/2       |               |
| <i>Stellarima microtrias</i>                                 | CAWB162              | L. Rhodes    | Antarctica                        | 23/06/22              | K1a9                        | F/2           |               |
| Pennate diatom                                               | CAWB168              | L. Rhodes    | Antarctica                        | 23/06/22              | K6c24                       | F/2           |               |
| <b>Bacillariophyta - classis incertae sedis</b><br>(Diatoms) |                      |              |                                   |                       |                             |               |               |
| <i>Phaeodactylum tricornutum</i>                             | CAWB126              |              | United Kingdom<br>(CSIRO)         | 18/12/17              | CSIRO CS-29                 | F/2           | Not available |

## Marine Algae

| Phylum/Class/Species                                                  | Cawthron code number | Isolator  | Site of isolation and/or source | Date of entry to CICCM | Original strain designation | Culture Media | Comment       |
|-----------------------------------------------------------------------|----------------------|-----------|---------------------------------|------------------------|-----------------------------|---------------|---------------|
| <b>Phylum Chlorophyta, Class Chlorodendrophyceae</b><br>(Green algae) |                      |           |                                 |                        |                             |               |               |
| <i>Tetraselmis suecica</i> *                                          | CAWG04               | A. Dodson | <b>Brest, France (CSIRO)</b>    | 07/08/03               | CS-187                      | F/2           | Not available |
| <i>Tetraselmis</i> sp. **                                             | CAWG01               | MPI       | Mahanga Bay, NZ                 | 1993                   |                             | GP            | Not available |

|                                                                       |        |              |                                                   |          |      |        |           |
|-----------------------------------------------------------------------|--------|--------------|---------------------------------------------------|----------|------|--------|-----------|
| <b>Phylum Chlorophyta, Class Pyramimonadophyceae</b><br>(Green algae) |        |              |                                                   |          |      |        |           |
| <i>Pyramimonas propulsa</i>                                           | CAWG05 | L. Mackenzie | Opua Bay, Tory Channel, Queen Charlotte Sound. NZ | 04/03/19 |      | 50% GP |           |
| <i>Pyramimonas parkeae</i>                                            | CAWG06 | L. Rhodes    | Kaikoura, NZ                                      | 25/05/21 | Kai6 | F/2    | Cryo only |

\*Originally in Class Prasinophyceae and coded CAWPr01.

Taxonomy changed and genus *Tetraselmis* moved to Class Chlorodendrophyceae

New code CAWG04 assigned to this strain 25/11/15.

\*\*Purchased as *Chlamydomonas coccooides* (no identification data available at the time of purchase)

DNA sequenced 25/11/15 and identified as *Tetraselmis* sp. Relevant taxonomic changes (Class, Order, Family) updated accordingly.

## Marine Algae

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|--------------------------------------------------|----------------------|-------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Coccolithophyceae* (= Prymnesiophyceae**)</b> |                      |             |                                 |                       |                             |               |           |
| <i>Chrysochromulina apheles</i>                  | CAWP05               | L. Rhodes   | Pakiri, NZ                      | 1994                  |                             | GP            |           |
| <i>Chrysochromulina camella</i>                  | CAWP16               | L. Rhodes   | Ruakaka Bay, NZ                 | 1992                  |                             | GP            |           |
| <i>Chrysochromulina camella</i>                  | CAWP28               | L. Rhodes   | Coromandel, NZ                  | 1997                  |                             | GP            | Cryo only |
| <i>Chrysochromulina simplex</i>                  | CAWP03               | L. Rhodes   | Hauraki Gulf, NZ                | 24/07/98              |                             | GP            | Cryo only |
| <i>Chrysochromulina simplex</i>                  | CAWP20               | Othman Bojo | Blueskin Bay, NZ                | 21/05/98              |                             | GP            |           |
| <i>Chrysotila dentata</i>                        | CAWP39               | K. Smith    | Rangaunu Harbour, NZ            | 28/02/11              |                             | K             |           |
| <i>Emiliana huxleyi</i>                          | CAWP06               | L. Rhodes   | Big Glory Bay, NZ               | 1992                  |                             | GP            | Cryo only |
| <i>Haptolina ericina</i>                         | CAWP01               | B. Burke    | Hauraki Gulf, NZ                | 1994                  |                             | GP            |           |
| <i>Haptolina ericina</i>                         | CAWP31               | L. Rhodes   | Coromandel, NZ                  | 10/11/98              |                             | GP            |           |
| <i>Haptolina hirta</i>                           | CAWP02               | L. Rhodes   | Ninety Mile Beach, NZ           | 1995                  |                             | GP            | Cryo only |
| <i>Imantonia</i> sp.                             | CAWP23               | Othman Bojo | Blueskin Bay, NZ                | 21/05/98              |                             | F/2           | Cryo only |

\* Ref.: Algaebase <https://www.algaebase.org/search/species/>

\*\*Ref.: WoRMS <https://www.marinespecies.org/>



## Marine Algae

| Class/Species                                      | Cawthron code number | Isolator           | Site of isolation and/or source                                           | Date of entry to CICCM | Original strain designation | Culture Media | Comment                    |
|----------------------------------------------------|----------------------|--------------------|---------------------------------------------------------------------------|------------------------|-----------------------------|---------------|----------------------------|
| <b>Coccolithophyceae* (= Prymnesiophyceae**)</b>   |                      |                    |                                                                           |                        |                             |               |                            |
| <i>Phaeocystis globosa</i>                         | CAWP32               | Othman Bojo        | Otago Coast, NZ                                                           | 07/07/97               | strain No. 9                | F/2           |                            |
| <i>Phaeocystis globosa</i>                         | CAWP34               | Othman Bojo        | South Current, NZ                                                         | 14/10/97               | strain No. 12               | F/2           |                            |
| <i>Phaeocystis globosa</i>                         | CAWP35               | Othman Bojo        | Pelorous Sound, NZ                                                        | 11/08/98               | strain No. 20               | F/2           |                            |
| <i>Phaeocystis cf. pouchetii</i>                   | CAWP24               | Othman Bojo        | Tapeka, NZ                                                                | 21/05/98               | strain No. 7                | F/2           |                            |
| <i>Phaeocystis cf. pouchetii</i>                   | CAWP25               | Othman Bojo        | Mistake Point, NZ                                                         | 21/05/98               | strain No. 8                | F/2           |                            |
| <i>Phaeocystis</i> sp.                             | CAWP40               | Tomohiro Nishimura | Okiwi Bay, Kaikoura, NZ                                                   | 17/02/22               | KOkA07P                     | GP            | Not available              |
| <i>Prymnesium parvum</i>                           | CAWP10               | T. Christensen     | <b>University of Copenhagen</b>                                           | August 1993            | K 0081                      | GP            | Not available<br>Cryo only |
| <i>Prymnesium parvum</i><br><i>f. patelliferum</i> | CAWP11               | D. J. Hibberd      | <b>CSIRO</b>                                                              | Prior or in 1993       | Plym.527/CS-288             | GP            | Not available<br>Cryo only |
| <i>Prymnesium parvum</i><br><i>f. patelliferum</i> | CAWP12               | O. Moestrup        | <b>University of Copenhagen</b>                                           | August 1993            | K 0252                      | GP            | Not available<br>Cryo only |
| <i>Tisochrysis lutea</i>                           | CAWP41               | K. Haines          | <b>Mataivi, Tahiti,<br/>French Polynesia<br/>Quarantine: Not required</b> | 13/06/23               | CSIRO (CS-177)              | F/2           | Not available              |

\* Ref.: Algaebase <https://www.algaebase.org/search/species/>

\*\*Ref.: WoRMS <https://www.marinespecies.org/>

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|-----------------------------|----------------------|--------------------|------------------------------------|-----------------------|-----------------------------|---------------|---------------|
| <b>Cryptophyceae</b>        |                      |                    |                                    |                       |                             |               |               |
| <i>Cryptomonas</i> sp.      | CAWCr01              | L.Rhodes           | Marlborough Sounds, NZ             | 1990                  |                             | GP            |               |
| <i>Rhodomonas</i> sp.       | CAWCr02              | V. Beuzenberg      | Whangakoko Bay, Port Underwood, NZ | 06/09/16              | #4VB                        | F/2           | Cryo only     |
| <i>Rhodomonas</i> sp.       | CAWCr03              | V. Beuzenberg      | Cawthron Aquaculture Park pond, NZ | 06/09/16              | #8VB                        | F/2           | Cryo only     |
| <i>Rhodomonas</i> sp.       | CAWCr05              | Tomohiro Nishimura | Kaikoura Peninsula, Kaikoura, NZ   | 17/02/22              | Kaikoura2                   | F/2 / SW      |               |
| <i>Teleaulax amphioxeia</i> | CAWCr04              |                    | <b>Japan</b>                       | 22/03/18              |                             | F/2           | Not available |

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|-------------------------------------------|----------------------|--------------------------|---------------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Cyanophyceae</b><br>(Blue-green algae) |                      |                          |                                       |                       |                             |               |           |
| <i>Chroococcus giganteus</i>              | CAWBG127             | L. Rhodes                | <b>Rarotonga, Cook Islands</b>        | 01/06/20              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> cf. <i>giganteus</i>   | CAWBG101             | L. Rhodes                | Rangaunu Harbour, NZ                  | 30/01/09              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> cf. <i>giganteus</i>   | CAWBG102             | L. Rhodes                | <b>Rarotonga, Cook Islands</b>        | 30/01/09              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> cf. <i>giganteus</i>   | CAWBG109             | L. Rhodes                | Parengarenga, NZ                      | 12/08/10              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> cf. <i>giganteus</i>   | CAWBG126             | L. Rhodes                | Roberton Island<br>Bay of Islands, NZ | 04/11/14              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> cf. <i>giganteus</i>   | CAWBG128             | L. Rhodes                | Marsden Cove,<br>Northland, NZ        | 17/08/21              | Chroo<br>Marsden            | F/2 / SW      |           |
| <i>Chroococcus</i> sp.                    | CAWBG110             | L. Rhodes                | <b>Hawaii, USA</b>                    | 21/02/11              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> sp.                    | CAWBG111             | L. Rhodes                | Rangaunu Harbour, NZ                  | 21/02/11              |                             | F/2           | Cryo only |
| <i>Chroococcus</i> sp.                    | CAWBG113             | L. Rhodes                | Hokianga Harbour, NZ                  | 30/08/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG114             | Jodie Wall, L.<br>Rhodes | Hokianga Harbour, NZ                  | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG115             | Jodie Wall, L.<br>Rhodes | Hokianga Harbour, NZ                  | 22/09/11              |                             | F/2           | Cryo only |

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|-------------------------------------------|----------------------|-----------------------|---------------------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Cyanophyceae</b><br>(Blue-green algae) |                      |                       |                                             |                       |                             |               |           |
| <i>Leptolyngbya</i> sp.                   | CAWBG116             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG117             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG118             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG119             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG120             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG122             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Leptolyngbya</i> sp.                   | CAWBG123             | Jodie Wall, L. Rhodes | Hokianga Harbour, NZ                        | 22/09/11              |                             | F/2           | Cryo only |
| <i>Oscillatoria</i> sp.                   | CAWBG104             | L. Rhodes             | Rangaunu Harbour, NZ                        | 12/02/09              |                             | F/2           | Cryo only |
| <i>Oscillatoria</i> sp.                   | CAWBG106             | L. Rhodes             | <b>Vairoa -Tahiti,<br/>French Polynesia</b> | 30/01/09              |                             | F/2           | Cryo only |
| <i>Cf. Oscillatoria</i> sp.               | CAWBG107             | L. Rhodes             | Narrow Neck Beach,<br>Auckland              | 15/10/09              |                             | F/2           | Cryo only |
| <i>Cf. Phormidium</i> sp.                 | CAWBG108             | L. Rhodes             | Narrow Neck Beach,<br>Auckland              | 15/10/09              |                             | F/2           | Cryo only |

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|--------------------------------------|----------------------|------------|---------------------------------|------------------------|-----------------------------|---------------|---------|
| <b>Dictyochophyceae</b>              |                      |            |                                 |                        |                             |               |         |
| <i>Pseudochattonella verruculosa</i> | CAWDC02              | J. Adamson | Taylor's Mistake, NZ            | 15/09/03               |                             | 50% GP        |         |
| <i>Pseudochattonella verruculosa</i> | CAWDC03              | L. Rhodes  | Ruakaka, NZ                     | 20/10/10               |                             | 50% GP        |         |

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|-----------------------------------------|----------------------|--------------------|---------------------------------------|-----------------------|-----------------------------|---------------|-------------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                    |                                       |                       |                             |               |                   |
| <i>Akashiwo sanguinea</i>               | CAWD01               | L. Rhodes          | Marlborough Sounds, NZ                | 1991                  |                             | 50% GP        |                   |
| <i>Akashiwo sanguinea</i>               | CAWD370              | L. Rhodes          | Akaroa, NZ                            | 25/05/21              |                             | F/2           |                   |
| <i>Alexandrium fraterculus</i>          | CAWD52               | L. MacKenzie       | Coromandel, NZ                        | 20/11/97              | #5                          | L1            |                   |
| <i>Alexandrium fraterculus</i>          | CAWD97               | L. MacKenzie       | Coromandel, NZ                        | 22/02/00              |                             | L1            |                   |
| <i>Alexandrium margalefii</i>           | CAWD10               | L. MacKenzie       | Bream Bay, NZ                         | 1993                  |                             | GP            |                   |
| <i>Alexandrium minutum</i>              | CAWD11               | L. MacKenzie       | Anakoha Bay, NZ                       | January 1994          |                             | GP            | DNA / Toxins only |
| <i>Alexandrium minutum</i>              | CAWD12               | L. MacKenzie       | Anakoha Bay, NZ                       | January 1994          |                             | GP            | DNA / Toxins only |
| <i>Alexandrium minutum</i>              | CAWD273              | Mihriban Ozen      | <b>Camalti Saltern, Izmir, Turkey</b> | 19/02/18              | AQUAMEB-41                  | GP            | Not available     |
| <i>Alexandrium ostenfeldii</i>          | CAWD313              | Tomohiro Nishimura | Akaroa, NZ                            | 11/11/19              | Alx-1                       | F/2           |                   |
| <i>Alexandrium pacificum</i>            | CAWD44               | L. MacKenzie       | Tauranga, NZ                          | 20/11/97              | #2                          | GP            | DNA / Toxinonly   |
| <i>Alexandrium pacificum</i>            | CAWD45               | L. MacKenzie       | Tauranga, NZ                          | 20/11/97              | #18                         | GP            | DNA / Toxinonly   |
| <i>Alexandrium pacificum</i>            | CAWD46               | L. MacKenzie       | Tauranga, NZ                          | 20/11/97              | #20                         | L1            | DNA / Toxins only |

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|-----------------------------------------|----------------------|--------------|----------------------------------|-----------------------|-----------------------------|---------------|-------------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |              |                                  |                       |                             |               |                   |
| <i>Alexandrium pacificum</i>            | CAWD47               | L. MacKenzie | Tauranga, NZ                     | 20/11/97              | #22                         | GP            | DNA / Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD49               | L. MacKenzie | Te Kaha, NZ                      | 20/11/97              | #3                          | K             | DNA / Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD50               | L. MacKenzie | Te Kaha, NZ                      | 20/11/97              | #11                         | K             | DNA / Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD121              | L. MacKenzie | Marsden Point, NZ                | 20/02/02              |                             | GP            | DNA / Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD234              | L. MacKenzie | Opua Bay, Marlborough Sounds, NZ | 08/06/15              | Isolate 1                   | GP            | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD234_152          | CNC          | Originally from Opua Bay, NZ     | 09/01/20              | CAWD234 CR no. 152          | CNC ASW/L1    | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD235              | L. MacKenzie | Opua Bay, Marlborough Sounds, NZ | 08/0/15               | Isolate 4                   | GP            | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD260              | L. Rhodes    | Whangakoko, NZ                   | 24/04/17              | Alx pac a                   | F/2           | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD261              | L. Rhodes    | Whangakoko, NZ                   | 15/05/17              | Alx pac c                   | F/2           | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD262              | L. Rhodes    | Whangakoko, NZ                   | 15/05/17              | Alx pac d                   | F/2           | DNA/Toxins only   |
| <i>Alexandrium pacificum</i>            | CAWD290              | L. MacKenzie | Manukau Harbour, NZ              | 04/03/19              | Strain 1A                   | GP            | DNA/Toxins only   |

## Marine Algae

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|-----------------------------------------|----------------------|----------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                |                                 |                       |                             |               |                 |
| <i>Alexandrium pacificum</i>            | CAWD291              | L. MacKenzie   | Manukau Harbour, NZ             | 04/03/19              | Strain 3C                   | GP            | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD314              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-2                       | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD315              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-3                       | IMK/2         | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD316              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-5                       | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD317              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-6                       | IMK/2         | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD318              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-7                       | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD319              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-8                       | GP            | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD320              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-9                       | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD321              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-10                      | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD322              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-11                      | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD323              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-13                      | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD324              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-14                      | GP            | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD325              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-16                      | F/2           | DNA/Toxins only |
| <i>Alexandrium pacificum</i>            | CAWD326              | Muharrem Balci | Nydia Bay, NZ                   | 11/11/19              | Alx-18                      | GP            | DNA/Toxins only |



## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |              |                                    |                        |                             |               |                            |
| <i>Alexandrium pseudogonyaulax</i>      | CAWD54               | L. MacKenzie | Tamaki Strait, NZ                  | 20/11/97               |                             | L1            |                            |
| <i>Alexandrium pseudogonyaulax</i>      | CAWD138              | K. Ayres     | Kerikeri, NZ                       | 28/06/05               |                             | L1            |                            |
| <i>Alexandrium tamarense</i>            | CAWD20               | I. Adams     | <b>Tamar Estuary, Plymouth, UK</b> | August 1993            | Plymouth 173a (K 0049)      | L1            | Not available              |
| <i>Alexandrium</i> sp. type 2           | CAWD450              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>     | 29/07/23               | TitIPV                      | F/2 / SW 1:3  |                            |
| <i>Amphidinium carterae</i>             | CAWD22               | L. Rhodes    | Wellington Harbour, NZ             | 1993                   |                             | GP            | Cryo only                  |
| <i>Amphidinium carterae</i>             | CAWD23               | L. Rhodes    | Marlborough Sounds, NZ             | 1991                   |                             | GP            | Cryo only                  |
| <i>Amphidinium carterae</i>             | CAWD24               | R.Jowett     | <b>Bay of Naples, Italy</b>        | May 1990               | Plym450 also CS-212         | GP            | Not available<br>Cryo only |
| <i>Amphidinium carterae</i>             | CAWD57               | L. Rhodes    | Kauauora, NZ                       | October 1997           |                             | GP            | Cryo only                  |
| <i>Amphidinium carterae</i>             | CAWD152              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>     | 30/01/08               |                             | F/2           | Not available<br>Cryo only |
| <i>Amphidinium massartii</i>            | CAWD156              | L. Rhodes    | Rangaunu Harbour, NZ               | 29/09/08               | Strain 18                   | F/2           | Cryo only                  |
| <i>Amphidinium massartii</i>            | CAWD231              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>     | 17/02/15               | Queens Rep Site 5           | F/2           |                            |
| <i>Amphidinium massartii</i>            | CAWD284              | L. Rhodes    | <b>Micronesia, Pohnpei</b>         | 26/11/18               | C2 spiral Amphidinium       | F/2           |                            |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                |                                          |                        |                             |                 |               |
| <i>Amphidinium massartii</i>            | CAWD377              | L. Rhodes      | Raoul Island, Kermadec Islands Group, NZ | 24/02/22               | #10 Kerm Amph               | F/2             |               |
| <i>Amphidinium cf. massartii</i>        | CAWD132              | L. Rhodes      | Whangaroa Harbour, NZ                    | 13/10/04               |                             | GP              | Cryo only     |
| <i>Amphidinium cf. mootonorum</i>       | CAWD161              | L. Rhodes      | Rangaunu Harbour, NZ                     | 16/02/09               | Strain 13                   | L1              |               |
| aff. <i>Amphidinium mootonorum</i>      | CAWD280              | T. Nishimura   | Limestone Bay, Pohara, NZ                | 04/10/18               | TPL09Te                     | Metals mix SWII |               |
| <i>Amphidinium operculatum</i>          | CAWD297              | L. Rhodes      | <b>Niue, Avatele Beach</b>               | 12/03/19               |                             | F/2             |               |
| <i>Amphidinium thermaeum</i>            | CAWD265              | L. Rhodes      | <b>Rarotonga, Cook Islands</b>           | 04/07/17               | Strain YB4                  | F/2             |               |
| <i>Amphidinium thermaeum</i>            | CAWD375              | L. Rhodes      | Marsden Cove, Whangarei, NZ              | 08/11/21               | Amph. q                     | F/2             |               |
| <i>Amphidinium thermaeum</i>            | CAWD376              | L. Rhodes      | Marsden Cove, Whangarei, NZ              | 08/11/21               | Amph. b                     | F/2             |               |
| <i>Amphidinium cf. tomasii</i>          | CAWD162              | L. Rhodes      | <b>Cook Islands</b>                      | 15/07/09               |                             | F/2 / SW        | Not available |
| <i>Amphidinium trulla</i>               | CAWD68               | W. Gibbs       | Rangaunu, NZ                             | 1995                   |                             | GP              | Live + cryo   |
| <i>Amphidinium sp.</i>                  | CAWD160              | L. Rhodes      | <b>Vairoa –Tahiti, French Polynesia</b>  | 16/02/09               |                             | F/2             |               |
| <i>Azadinium dalianense</i>             | CAWD307              | Muharrem Balci | Wedge Point, NZ                          | 15/07/19               |                             | K 1:10          |               |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                    |                                          |                        |                             |               |         |
| <i>Biecheleria</i> sp.                  | CAWD278              | Julie Steynen      | Hallam Cove Marlborough Sounds, NZ       | 20/08/18               |                             | F/2           |         |
| <i>Biecheleria</i> sp.                  | CAWD304              | Muharrem Balci     | Wedge Point, NZ                          | 26/04/19               |                             | F/2           |         |
| <i>Bindiferia boggaya</i>               | CAWD164              | L. Rhodes          | Rangaunu Harbour, NZ                     | 16/06/09               |                             | F/2           |         |
| <i>Bysmatrum</i> sp.                    | CAWD292              | L. MacKenzie       | Rangaunu Harbour, NZ                     | 04/03/19               | Strain 1                    | 50% GP        |         |
| <i>Bysmatrum</i> sp.                    | CAWD293              | L. MacKenzie       | Rangaunu Harbour, NZ                     | 04/03/19               | Strain 3                    | 50% GP        |         |
| <i>Coolia canariensis</i>               | CAWD305              | Tomohiro Nishimura | Cable Bay, NZ                            | 20/05/19               | NCaA41C                     | IMK/2 or K    |         |
| <i>Coolia canariensis</i>               | CAWD386              | L. Rhodes          | Raoul Island, Kermadec Islands Group, NZ | 19/04/22               | #12 Alx                     | F/2           |         |
| <i>Coolia canariensis</i>               | CAWD387              | L. Rhodes          | Raoul Island, Kermadec Islands Group, NZ | 19/04/22               | #12 Alx zii                 | F/2           |         |
| <i>Coolia malayensis</i>                | CAWD77               | L. Rhodes          | Rangiputa, NZ                            | 07/09/98               |                             | F/2           |         |
| <i>Coolia malayensis</i>                | CAWD98               | L. Rhodes          | Glenhaven, NZ                            | Dec.1999               |                             | F/2           |         |
| <i>Coolia malayensis</i>                | CAWD151              | L. Rhodes          | Rarotonga, Cook Islands                  | 30/01/08               |                             | F/2           |         |
| <i>Coolia malayensis</i>                | CAWD154              | L. Rhodes          | Rangaunu Harbour, NZ                     | 25/08/08               |                             | F/2           |         |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates)            |                      |              |                                            |                        |                             |               |                              |
| <i>Coolia malayensis</i>                           | CAWD175              | L. Rhodes    | Rangaunu Harbour, NZ                       | 22/09/09               |                             | F/2           |                              |
| <i>Coolia malayensis</i>                           | CAWD214              | L. Rhodes    | Bay of Islands, Northland, NZ              | 31/10/13               |                             | F/2           |                              |
| <i>Coolia malayensis</i>                           | CAWD285              | L. Rhodes    | Boat Cove, Kermadec Islands Group, NZ      | 26/11/18               | 19 Coolia Z                 | F2 / SW 1:3   |                              |
| <i>Coolia malayensis</i>                           | CAWD350              | T. Nishimura | Golden Bay Wharf, Oban, Stewart Island, NZ | 17/08/20               | SSG03C                      | IMK/2         |                              |
| <i>Coolia monotis</i>                              | CAWD60               | I. Bravo     | <b>Ria de Vigo, Spain</b>                  | 1997                   |                             | F/2           | Not available                |
| <i>Coolia palmyrensis</i><br>( <i>malayensis</i> ) | CAWD385              | L. Rhodes    | Kermadec Islands Group, Raoul Island, NZ   | 19/04/22               | #6 Coolia                   | F/2           | Species name to be confirmed |
| <i>Coolia tropicalis</i>                           | CAWD384              | L. Rhodes    | Raoul Island, Kermadec Islands Group, NZ   | 19/04/22               | #2 Cool lge                 | F/2           |                              |
| <i>Fukuyoa paulensis</i>                           | CAWD306              | L. Rhodes    | Te Uenga, Northland, NZ                    | 16/07/19               | G TeU                       | F2 / SW 1:3   |                              |
| <i>Gambierdiscus australes</i>                     | CAWD149              | L. Rhodes    | Rarotonga, Cook Islands                    | 30/01/08               | Strain G                    | F/2           | DNA only                     |
| <i>Gambierdiscus australes</i>                     | CAWD187              | L. Rhodes    | Hawaii, USA                                | 13/09/10               |                             | F/2 / SW      | Not available                |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |           |                                             |                        |                             |               |          |
| <i>Gambierdiscus australes</i>          | CAWD246              | L. Rhodes | Kermadec Islands Group, NZ                  | 18/07/16               | #5-n                        | F2 / SW 1:3   | DNA only |
| <i>Gambierdiscus australes</i>          | CAWD253              | P. Argyle | <b>Kingdom of Tonga</b>                     | 05/12/16               | KL3Y                        | F2 / SW 1:3   | DNA only |
| <i>Gambierdiscus australes</i>          | CAWD256              | L. Rhodes | Kermadec Islands Group, Macauley Island, NZ | 28/03/17               | Mac#3c                      | F2 / SW 1:3   | DNA only |
| <i>Gambierdiscus australes</i>          | CAWD381              | L. Rhodes | Kermadec Islands Group, Raoul Island NZ     | 12/03/22               | #14 Gh                      | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus australes</i>          | CAWD445              | L. Rhodes | Rarotonga, Cook Islands                     | 13/03/23               | QRHG2                       | F/2 / SW 1:3  |          |
| <i>Gambierdiscus cheloniae</i>          | CAWD232              | L. Rhodes | Rarotonga, Cook Islands                     | 17/02/15               | S 8 Spiky a                 | F/2 / SW 1:2  | DNA only |
| <i>Gambierdiscus cheloniae</i>          | CAWD236              | L. Rhodes | Rarotonga, Cook Islands                     | 29/07/15               | S 7 Pi                      | F/2 / SW 1:2  | DNA only |
| <i>Gambierdiscus honu</i>               | CAWD233              | L. Rhodes | Rarotonga, Cook Islands                     | 06/05/15               | S8Pa                        | F/2 / SW 1:2  | DNA only |
| <i>Gambierdiscus honu</i>               | CAWD242              | L. Rhodes | Kermadec Islands Group, NZ                  | 12/04/16               |                             | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus honu</i>               | CAWD250              | L. Rhodes | Kolonga, Tongatapu, Kingdom of Tonga        | 11/10/16               | Gamb.KL1 Ga                 | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus honu</i>               | CAWD309              | L. Rhodes | Micronesia, Pohnpei                         | 23/09/19               | G 1                         | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus honu</i>               | CAWD310              | L. Rhodes | Micronesia, Pohnpei                         | 07/10/19               | G 2                         | F/2 / SW 1:3  |          |
| <i>Gambierdiscus honu</i>               | CAWD446              | L. Rhodes | Rarotonga, Cook Islands                     | 13/03/23               | PTGf sm                     | F/2 / SW 1:3  |          |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |              |                                                 |                        |                             |               |          |
| <i>Gambierdiscus lapillus</i>           | CAWD330              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>                  | 01/06/2020             | G1                          | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus lapillus</i>           | CAWD331              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>                  | 01/06/2020             | G10                         | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus lapillus</i>           | CAWD332              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>                  | 01/06/2020             | Q                           | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus lapillus</i>           | CAWD335              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>                  | 01/06/2020             | G11                         | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus pacificus</i>          | CAWD213              | L. Rhodes    | <b>Cook Islands</b>                             | 23/01/14               | Strain CI 15                | F/2 / SW      | DNA only |
| <i>Gambierdiscus pacificus</i>          | CAWD252              | P. Argyle    | <b>Kingdom of Tonga</b>                         | 05/12/16               | Fafa Line 2 ix              | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus pacificus</i>          | CAWD449              | L. Rhodes    | <b>Cook Islands</b>                             | 29/07/2023             | MPG17                       | F/2 / SW 1:3  |          |
| <i>Gambierdiscus polynesiensis</i>      | CAWD212              | L. Rhodes    | <b>Cook Islands</b>                             | 23/01/14               | Strain CI 6                 | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus polynesiensis</i>      | CAWD267              | L. Rhodes    | <b>Rarotonga, Cook Islands</b>                  | 28/08/17               | Strain MG#1-17              | F/2 / SW 1:3  | DNA only |
| <i>Gambierdiscus polynesiensis</i>      | CAWD378              | L. Rhodes    | <b>Raoul Island, Kermadec Islands Group, NZ</b> | 12/03/22               | #1 G28                      | F/2           | DNA only |
| <i>Gambierdiscus sp.</i>                | CAWD451              | L. Rhodes    | <b>Aitutaki, Cook Islands</b>                   | 24/07/23               | Aitutaki x                  | F/2 / SW 1:3  |          |
| <i>Gonyaulax baltica</i>                | CAWD374              | L. MacKenzie | <b>Māori Bay, NZ</b>                            | 09/09/21               |                             | GP            |          |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates)        |                      |              |                                    |                        |                             |               |                   |
| <i>Gonyaulax fragilis</i>                      | CAWD100              | L. MacKenzie | Tasman Bay, NZ                     | 17/01/01               |                             | GP            |                   |
| <i>Gonyaulax</i> sp.                           | CAWD141              | L. Rhodes    | Wilson's Bay, NZ                   | 10/11/05               |                             | F/2           |                   |
| <i>Gymnodinium aureolum</i>                    | CAWD59               | A. Haywood   | Leigh, NZ                          | Dec.1994               | Isolate 04                  | 50% GP        |                   |
| <i>Gymnodinium aureolum</i>                    | CAWD87               | A. Haywood   | Coromandel NZ                      | Dec.1994               | Isolate 08                  | 50% GP        |                   |
| <i>Gymnodinium aureolum</i>                    | CAWD116              | J. Adamson   | Melville Cove, NZ                  | 10/10/01               |                             | GP            |                   |
| <i>Gymnodinium catenatum</i>                   | CAWD102              | L. MacKenzie | Kaitaia spat, NZ                   | 17/01/01               | Gc-KSC-2                    | L 1           | DNA / Toxins only |
| <i>Gymnodinium catenatum</i>                   | CAWD126              | L. MacKenzie | Huia Bank, Manukau Harbour, NZ     | 31/06/04               | HB#6                        | GP            | DNA / Toxins only |
| <i>Gymnodinium dorsalisulcum</i>               | CAWD225              | L. Rhodes    | Bay of Islands, Roberton Island NZ | 21/07/14               |                             | F/2           |                   |
| <i>Gymnodinium impudicum</i>                   | CAWD140              | J. Adamson   | Wilson's Bay, NZ                   | 28/06/05               |                             | 50% GP        |                   |
| <i>Gymnodinium instriatum</i>                  | CAWD300              | L. Rhodes    | Atata Island Tonga                 | 15/04/19               |                             | F/2 / SW 1:3  | Not available     |
| <i>Gymnodinium</i> cf. <i>microreticulatum</i> | CAWD191              | L. Rhodes    | Whangaparaoa Bay Hauraki Gulf, NZ  | 20/01/11               |                             | K             |                   |
| <i>Gymnodinium simplex</i>                     | CAWD86               | A. Haywood   | Tauranga, NZ                       | February 1995          | Isolate 07                  | 50% GP        |                   |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                   |                                 |                        |                             |                    |               |
| <i>Gymnodinium</i> sp.                  | CAWD71               | A. Haywood        | NZ                              | Prior to or in 1993    |                             | 50% GP             |               |
| <i>Gymnodinium</i> sp.                  | CAWD172              | L. Rhodes         | Narrow Neck Beach, Auckland, NZ | 22/09/09               |                             | F/2                |               |
| <i>Heterocapsa minima</i>               | CAWD302              | Muharrem Balci    | Wedge Point, NZ                 | 26/04/19               |                             | F/2                |               |
| <i>Heterocapsa niei</i>                 | CAWD88               | A. Haywood        | Kerikeri, NZ                    | January 1995           | Isolate 13                  | 50%                |               |
| <i>Heterocapsa triquetra</i>            | CAWD36               | L. Rhodes         | Akaroa, NZ                      | 1994                   |                             | GP                 |               |
| <i>Karenia bidigitata</i>               | CAWD80               | L. MacKenzie      | Fouveaux Strait, NZ             | 1995                   | Isolate 20                  | 50% GP             |               |
| <i>Karenia bidigitata</i>               | CAWD81               | L. MacKenzie      | Fouveaux Strait, NZ             | 1995                   | Isolate 21                  | 50% GP             |               |
| <i>Karenia bidigitata</i>               | CAWD92               | A. Haywood        | Hawkes Bay, NZ                  | Feb.1995               | Isolate 17                  | 50% GP             |               |
| <i>Karenia brevis</i>                   | CAWD04               |                   | Florida, USA                    | 1994                   | Wilson strain               | 50% GP             | Not available |
| <i>Karenia brevis</i>                   | CAWD06               |                   | Florida, USA                    | Jan.1995               | Wilson strain               | 50% GP             | Not available |
| <i>Karenia brevis</i>                   | CAWD08               |                   | Florida, USA                    | Jan.1995               | Wilson strain               | 50% GP             | Not available |
| <i>Karenia brevis</i>                   | CAWD122              | Dr John E. Rogers | Florida, USA                    | 08/11/02               | EPA-JR strain               | L 1 & L 1 modified | Not available |



## Marine Algae

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|-----------------------------------------|----------------------|--------------|----------------------------------|------------------------|-----------------------------|---------------|-------------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |              |                                  |                        |                             |               |                   |
| <i>Karenia brevisulcata</i>             | CAWD82               | L. MacKenzie | Wellington Harbour, NZ           | 1998                   |                             | GP            | DNA / Toxin only  |
| <i>Karenia mikimotoi</i>                | CAWD05               | T. Ishimaru  | <b>Kushimoto, Japan</b>          | 1987                   |                             | 50% GP        | Not available     |
| <i>Karenia mikimotoi</i>                | CAWD63               | A. Haywood   | Waimangu, NZ                     | 1994                   | Isolate 02                  | 50% GP        |                   |
| <i>Karenia mikimotoi</i>                | CAWD117              | J. Adamson   | East Bay, Marlborough Sounds, NZ | 10/10/01               | G-19 Strain 1               | 50% GP        |                   |
| <i>Karenia mikimotoi</i>                | CAWD133              | J. Adamson   | Kennedy Bay, NZ                  | 09/11/04               |                             | 50% GP        |                   |
| <i>Karenia mikimotoi</i>                | CAWD134              | J. Adamson   | Whangaporoa, NZ                  | 09/11/04               |                             | 50% GP        |                   |
| <i>Karenia mikimotoi</i>                | CAWD192              | L. Rhodes    | Ruakaka, NZ                      | 16/11/11               | Strain 1                    | 50% GP        |                   |
| <i>Karenia papilionacea</i>             | CAWD91               | A. Haywood   | Hawkes Bay, NZ                   | Feb.1995               | Isolate 16                  | 50% GP        |                   |
| <i>Karenia selliformis</i>              | CAWD79               | L. MacKenzie | Fouveau Strait, NZ               | 1994                   | Isolate 11                  | GP            | DNA / Toxins only |
| <i>Karlodinium veneficum</i>            | CAWD84               | A. Haywood   | Kawau Island NZ                  | Dec.1994               | Isolate 05                  | 50% GP        |                   |
| <i>Karlodinium veneficum</i>            | CAWD93               | L. MacKenzie | Ponui Island NZ                  | 1995                   | Isolate 19                  | 50% GP        |                   |
| <i>Lepidodinium chlorophorum</i>        | CAWD62               | L. MacKenzie | Ruakaka Bay, NZ                  | 1993                   | Isolate 10                  | 50% GP        |                   |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |             |                                          |                       |                             |               |               |
| <i>Lingulodinium polyedrum</i>          | CAWD240              | L. Rhodes   | Coromandel, NZ                           | 13/10/15              |                             | K             |               |
| <i>Ostreopsis lenticularis</i>          | CAWD266              | L. Rhodes   | <b>Rarotonga, Cook Islands</b>           | 18/09/17              | Ost. Large Nico's           | F/2 / SW 1:3  | DNA only      |
| <i>Ostreopsis lenticularis</i>          | CAWD447              | L. Rhodes   | <b>Cook Islands</b>                      | 15/05/23              | Outer Reef 10m Ost lge      | F/2 / SW 1:3  |               |
| <i>Ostreopsis cf. ovata</i>             | CAWD269              | L. Rhodes   | <b>Rarotonga, Cook Islands</b>           | 19/09/17              | Y B5 G8                     | F/2 / SW 1:3  | DNA only      |
| <i>Ostreopsis cf. ovata</i>             | CAWD288              | L. Rhodes   | <b>Micronesia, Pohnpei</b>               | 29/01/19              |                             | F/2 / SW 1:3  | DNA only      |
| <i>Ostreopsis rhodesiae</i>             | CAWD257              | Ariun Verma | <b>Heron Reef, Queensland, Australia</b> | 28/03/17              | Her 26                      | F/2 / SW 1:3  | Not available |
| <i>Ostreopsis cf. siamensis.</i>        | CAWD206              | L. Rhodes   | Northland , NZ                           | 08/05/13              | Strain 11b                  | F/2 / SW      | DNA only      |
| <i>Ostreopsis cf. siamensis</i>         | CAWD208              | L. Rhodes   | Tapeka Point, NZ                         | 11/06/13              |                             | F/2 / SW      | DNA only      |
| <i>Ostreopsis cf. siamensis</i>         | CAWD371              | L. Rhodes   | Marsden Cove, Northland, NZ              | 09/08/21              | Ost Marsden 1               | F/2 / SW 1:3  | DNA only      |
| <i>Ostreopsis cf. siamensis</i>         | CAWD372              | L. Rhodes   | Marsden Cove, Northland, NZ              | 09/08/21              | Ost ii Marsden 3            | F/2 / SW 1:3  | DNA only      |
| <i>Ostreopsis cf. siamensis</i>         | CAWD373              | L. Rhodes   | Marsden Cove, Northland, NZ              | 09/08/21              | Ost v Marsden 4             | F/2 / SW 1:3  | DNA only      |

## Marine Algae

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|-----------------------------------------|----------------------|----------------|------------------------------------------|------------------------|-----------------------------|---------------|-------------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                |                                          |                        |                             |               |                   |
| <i>Ostreopsis</i> sp. 3                 | CAWD268              | L. Rhodes      | <b>Rarotonga, Cook Islands</b>           | 19/09/17               | Y B4                        | F/2 /SW 1:3   | DNA only #3 ref.* |
| <i>Ostreopsis</i> sp. 3                 | CAWD270              | L. Rhodes      | <b>Rarotonga, Cook Islands</b>           | 19/09/17               | Strain D                    | F/2 /SW 1:3   | DNA only #3 ref.* |
| <i>Ostreopsis</i> sp. 3                 | CAWD287              | L. Rhodes      | <b>Niue, Avatele Beach</b>               | 29/01/19               |                             | F/2 /SW 1:3   | DNA only #3 ref.* |
| <i>Ostreopsis</i> sp. 3                 | CAWD311              | Muharrem Balci | <b>Niue</b>                              | 30/09/19               | Ost.2                       | F/2 /SW 1:3   | DNA only #3 ref.* |
| <i>Ostreopsis</i> sp. 3                 | CAWD312              | Muharrem Balci | <b>Niue</b>                              | 30/09/19               | Ost.4                       | F/2 /SW 1:3   | DNA only #3 ref.* |
| <i>Ostreopsis</i> sp. 3                 | CAWD383              | L. Rhodes      | Kermadec Islands Group, Raoul Island, NZ | 26/03/22               | Strain #11 Ost C            | F/2 /SW 1:3   | DNA only #3 ref.* |

\*Ref.: Sato S, Nishimura T, Uehara K, Sakanari H, Tawong W, Hariganeya N, Smith KF, Rhodes L, Yasumoto T, Taira Y, et al. 2011. Phylogeography of *Ostreopsis* along West Pacific Coast, with Special Reference to a Novel Clade from Japan. PLoS ONE.6:e27983-e27983.

## Marine Algae

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|-----------------------------------------|----------------------|----------------|---------------------------------------------------|-----------------------|-----------------------------|---------------|---------------|
| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                |                                                   |                       |                             |               |               |
| <i>Pelagodinium bei</i>                 | CAWD303              | Muharrem Balci | Takaka, NZ                                        | 26/04/19              |                             | F/2           |               |
| <i>Pentapharsodinium</i> sp.            | CAWD294              | L. MacKenzie   | Opua Bay, Tory Channel, Queen Charlotte Sound, NZ | 04/03/19              |                             | F/2           |               |
| <i>Polarella glacialis</i>              | CAWD397              | L. Rhodes      | Antarctica                                        | 23/06/22              | K4a1                        | F/2           | Not available |
| <i>Polarella glacialis</i>              | CAWD398              | L. Rhodes      | Antarctica                                        | 23/06/22              | K4a2                        | F/2           | Not available |
| <i>Prorocentrum</i> cf. <i>balticum</i> | CAWD38               | L. MacKenzie   | Taharoa, NZ                                       | 1993                  |                             | GP            |               |
| <i>Prorocentrum compressum</i>          | CAWD30               | L. MacKenzie   | Taharoa, NZ                                       | 1992                  |                             | L 1           |               |
| <i>Prorocentrum compressum</i>          | CAWD31               | L. Rhodes      | Ninety Mile Beach, NZ                             | 1995                  |                             | L 1           |               |
| <i>Prorocentrum compressum</i>          | CAWD146              | L. Rhodes      | The Bluff, NZ                                     | 19/03/07              |                             | L 1           |               |
| <i>Prorocentrum lima</i>                | CAWD32               |                | Spain /NEPCC                                      | 1991                  |                             | F/2           | Not available |
| <i>Prorocentrum lima</i>                | CAWD33               | L. Rhodes      | Rangaunu, NZ                                      | 1994                  |                             | F/2           |               |
| <i>Prorocentrum lima</i>                | CAWD69               | L. Rhodes      | Rangiputa, NZ                                     | 13/05/98              | Rangiputa 1                 | F/2           |               |
| <i>Prorocentrum lima</i>                | CAWD70               | L. Rhodes      | Whatuwhiwhi, NZ                                   | 13/05/98              |                             | F/2           |               |
| <i>Prorocentrum lima</i>                | CAWD94               | L. Rhodes      | Rangiputa, NZ                                     | 09/03/99              | Rangiputa 2                 | F/2           |               |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                |                                           |                        |                             |                 |               |
| <i>Prorocentrum lima</i>                | CAWD95               | L. Rhodes      | Croisilles Harbour NZ                     | 09/03/99               |                             | F/2             |               |
| <i>Prorocentrum lima</i>                | CAWD157              | L. Rhodes      | Rangaunu Harbour NZ                       | 02/10/08               | Strain 27                   | F/2             | Not available |
| <i>Prorocentrum lima</i>                | CAWD176              | L. Rhodes      | Rangaunu Harbour NZ                       | 22/09/09               | Strain 3                    | F/2             |               |
| <i>Prorocentrum lima</i>                | CAWD189              | L. Rhodes      | <b>Hawaii, USA</b>                        | 13/09/10               |                             | F/2 /SW         | Not available |
| <i>Prorocentrum lima</i>                | CAWD247              | L. Rhodes      | <b>Rarotonga, Cook Islands</b>            | 06/07/16               | S6Pod 2                     | F/2             | Not available |
| <i>Prorocentrum lima</i>                | CAWD283              | L. Rhodes      | <b>Raoul Island, Kermadec Islands, NZ</b> | 30/10/18               | Boat Cove                   | F2 or SWII      |               |
| <i>Prorocentrum lima</i>                | CAWD452              | L. Rhodes      | <b>Raoul Island, Kermadec Islands, NZ</b> | 07/08/23               | KID4P05                     | SW II, K or F/2 |               |
| <i>Prorocentrum lima</i>                | CAWD453              | L. Rhodes      | <b>Raoul Island, Kermadec Islands, NZ</b> | 07/08/23               | KID5P06                     | SW II, K or F/2 |               |
| <i>Prorocentrum lima</i>                | CAWD454              | L. Rhodes      | Kaikoura, NZ                              | 07/08/23               | CKS13P                      | SW II, K or F/2 |               |
| <i>Prorocentrum lima</i>                | CAWD455              | L. Rhodes      | Kaikoura, NZ                              | 07/08/23               | CKS03P                      | SW II, K or F/2 |               |
| <i>Prorocentrum cf. maculosum</i>       | CAWD158              | L. Rhodes      | <b>Rangaunu Harbour NZ</b>                | 16/02/09               | Strain 10                   | F/2             |               |
| <i>Prorocentrum micans</i>              | CAWD34               | L. Rhodes      | <b>Marlborough Sounds, NZ</b>             | 1995                   |                             | 50% GP          |               |
| <i>Prorocentrum micans</i>              | CAWD142              | L. Rhodes      | <b>Wilson's Bay, NZ</b>                   | 11/01/06               |                             | L 1             |               |
| <i>Prorocentrum minimum</i>             | CAWD359              | Kate Mc Lennan | <b>Berowra Creek, NSW, Australia</b>      | 31/07/20               | P.min HAWK 1                | F/2             | Not available |
| <i>Prorocentrum rhathymum</i>           | CAWD153              | M. de Salas    | <b>Port Lincoln, Australia</b>            | 13/08/08               | Strain PRLPL03              | 50% GP          | Not available |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                  |                                                    |                        |                             |               |                   |
| <i>Prorocentrum rhathymum</i>           | CAWD159              | L. Rhodes        | <b>Vairoa -Tahiti, French Polynesia</b>            | 16/02/09               |                             | F/2           | Not available     |
| <i>Prorocentrum shikokuense</i>         | CAWD295              | L. MacKenzie     | Opuia Bay,Tory Channel, Queen Charlotte Sounds, NZ | 04/03/19               |                             | 50% GP        |                   |
| <i>Prorocentrum sigmoides</i>           | CAWD120              | J. Adamson       | Wedge Point, NZ                                    | 10/10/01               |                             | GP            |                   |
| <i>Protoceratium reticulatum</i>        | CAWD40               | J. Adamson       | Wedge Point, NZ                                    | Nov.1996               |                             | GP            |                   |
| <i>Protoceratium reticulatum</i>        | CAWD99               | M. de Salas      | Dervent Estuary, Australia                         | 09/10/00               | Australia                   | GP            | Not available     |
| <i>Protoceratium reticulatum</i>        | CAWD127              | L. Rhodes        | Marlborough Sounds. NZ                             | 22/07/04               |                             | GP            | DNA / Toxins only |
| <i>Protoceratium reticulatum</i>        | CAWD129              | L. MacKenzie     | Westport, NZ                                       | 05/10/04               | Strain WP1                  | GP            | DNA / Toxins only |
| <i>Protoceratium reticulatum</i>        | CAWD130              | L. MacKenzie     | Westport, NZ                                       | 05/10/04               | Strain WP2                  | GP            | DNA / Toxins only |
| <i>Protoceratium reticulatum</i>        | CAWD275              | Ebru Ozkan Oktay | Mudanya, Marmara Sea, Turkey                       | 19/02/18               | AQUAMEB-48                  | GP            | Not available     |
| <i>Pseudadenoides kofoidii</i>          | CAWD279              | T. Nishimura     | Limestone Bay, Pohara, Tasman Region, NZ           | 04/10/18               | TPL11Ad                     | K             |                   |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                                               |                                          |                        |                             |               |               |
| <i>Pseudadenoides kofoidii</i>          | CAWD286              | T. Nishimura                                  | Limestone Bay, Pohara, Tasman Region, NZ | 03/01/19               | TPL13Ad                     | SWII          |               |
| <i>Scrippsiella acuminata</i>           | CAWD67               | M. Atkinson                                   | Hauraki Gulf, NZ                         | 1995                   |                             | GP            |               |
| <i>Scrippsiella donghaiensis</i>        | CAWD382              | L. Rhodes                                     | Rawhiti, Northland, NZ                   | 13/03/22               | whirling gym                | F/2           |               |
| <i>Symbiodinium</i> sp.                 | CAWD195              | Bob Kinzie<br>Uni of Hawaii                   | <b>Hawaii, USA</b>                       | 28/02/12               | Strain A3                   | F/2 / L1      | Not available |
| <i>Symbiodinium</i> sp.                 | CAWD196              | Bob Kinzie,<br>Uni of Hawaii                  | <b>Great Barrier Reef, Australia</b>     | 28/02/12               | Strain C1                   | F/2 / L1      | Not available |
| <i>Symbiodinium</i> sp.                 | CAWD197              | Mary-Alice Coffroth,<br>University of Buffalo | <b>Florida Keys, Tennessee Reef, USA</b> | 28/02/12               | D2556<br>Strain D1a         | F/2 / L1      | Not available |
| <i>Takayama helix</i>                   | CAWD128              | L.MacKenzie                                   | Tasman Bay, NZ                           | 05/10/04               |                             | L1            |               |
| <i>Takayama tasmanica</i>               | CAWD115              | J. Adamson                                    | Glenhaven, NZ (hatchery)                 | 10/10/01               |                             | 50% GP        |               |
| <i>Thecadinium kofoidii</i>             | CAWD352              | T. Nishimura                                  | Limestone Bay, Pohara, South Island NZ   | 03/07/20               | TPL04T                      | IMK/2         |               |
| <i>Thecadinium pseudokofoidii</i>       | CAWD353              | T. Nishimura                                  | Waihi Beach, Taranaki Region, NZ         | 03/07/20               | THW02T                      | IMK/2         |               |
| <i>Thecadinium</i> sp.                  | CAWD281              | T. Nishimura                                  | Tahunanui Beach, Nelson Region, NZ       | 04/10/18               | NTa08T                      | IMK/2         |               |

## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |              |                                          |                        |                             |               |         |
| <i>Togula cf. britannica</i>            | CAWD351              | T. Nishimura | Portobello Bay, Otago, South Island NZ   | 03/07/20               | OLP02To                     | IMK/2         |         |
| <i>Togula jolla</i>                     | CAWD41               | L. Rhodes    | Awaroa, NZ                               | February 1997          |                             | L 1           |         |
| <i>Togula jolla</i>                     | CAWD58               | L. Rhodes    | Napier, NZ                               | May 1998               |                             | GP            |         |
| <i>Vulcanodinium rugosum</i>            | CAWD163              | L. Rhodes    | Rangaunu Harbour, NZ                     | 06/05/09               | Strain 16                   | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD166              | L. Rhodes    | Rangaunu Harbour, NZ                     | 16/06/09               | Strain 3                    | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD167              | L. Rhodes    | Rangaunu Harbour, NZ                     | 06/07/09               | Strain 20                   | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD168              | L. Rhodes    | Rangaunu Harbour, NZ                     | 06/07/09               | Strain N                    | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD170              | L. Rhodes    | Rangaunu Harbour, NZ                     | 22/09/09               | Strain V                    | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD171              | L. Rhodes    | Rangaunu Harbour, NZ                     | 22/09/09               | Strain 10                   | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD178              | L. Rhodes    | Rangaunu Harbour, NZ                     | 22/09/09               | Strain 8                    | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD180              | L. Rhodes    | <b>Franklin Harbour, South Australia</b> | 24/03/10               | Strain 3                    | K             |         |
| <i>Vulcanodinium rugosum</i>            | CAWD181              | L. Rhodes    | <b>Franklin Harbour, South Australia</b> | 20/04/10               | Strain 3a                   | K             |         |



## Marine Algae

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| <b>Dinophyceae</b><br>(Dinoflagellates) |                      |                                       |                                     |                        |                             |               |               |
| <i>Vulcanodinium rugosum</i>            | CAWD182              | L. Rhodes                             | Franklin Harbour, South Australia   | 20/04/10               | Strain 3b                   | K             |               |
| <i>Vulcanodinium rugosum</i>            | CAWD188              | L. Rhodes                             | Ishigakijima Island, Okinawa, Japan | 07/10/10               | Strain 12                   | K             |               |
| <i>Vulcanodinium rugosum</i>            | CAWD198              |                                       | China                               | 28/02/12               |                             | F/2           | Not available |
| <i>Vulcanodinium rugosum</i>            | CAWD217              | A. Reyes, Lourdes Morquecho Escamilla | Mexico                              | 14/05/14               |                             | K             | Not available |
| <i>Vulcanodinium rugosum</i>            | CAWD289              | Elizabeth Nezan                       | Frontignan, France                  | 14/03/19               |                             | F/2 / SW      | Not available |
| <i>Vulcanodinium rugosum</i>            | CAWD296              | L. MacKenzie                          | Rangaunu Harbour, NZ                | 04/03/19               |                             | 50% GP        |               |
| <i>Vulcanodinium</i> sp.                | CAWD194              | Uni of Hawaii                         | Hawaii, USA                         | 04/10/11               |                             | K             | Not available |

## Marine Algae

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|-----------------------------------------------|----------------------|-----------------|----------------------------------------------------------|------------------------|-----------------------------|---------------|---------------|
| <b>Pavlovophyceae</b>                         |                      |                 |                                                          |                        |                             |               |               |
| <i>Diacronema lutheri</i>                     | CAWPv01              | Not known       | <b>Baltic Sea , Finland<br/>Quarantine: Not required</b> | 13/06/23               | CSIRO (CS-182)              | F/2           | Not available |
| <b>Porphyridiophyceae<br/>(Red algae)</b>     |                      |                 |                                                          |                        |                             |               |               |
| <i>Porphyridium purpureum</i>                 | CAWRh02              | R.A. Lewin      | <b>Halifax, Canada (CSIRO)</b>                           | 1991                   | CSIRO CS-25                 | GP            | Not available |
| <b>Raphidophyceae</b>                         |                      |                 |                                                          |                        |                             |               |               |
| <i>Chattonella marina</i> var. <i>antiqua</i> | CAWR01               | M. .M. Watanabe | <b>Seto Inland Sea, Japan<br/>(CSIRO)</b>                | Feb.1990               | NIES-1/<br>CS-171; 331      | F/2           | Not available |
| <i>Chattonella marina</i> var. <i>antiqua</i> | CAWR18               | L. Rhodes       | Wellington Harbour, NZ                                   | Apr.1999               |                             | L 1           |               |
| <i>Chattonella marina</i> var. <i>antiqua</i> | CAWR23               | L. Rhodes       | Great Barrier Island<br>Port Fitzroy, NZ                 | 15/03/06               |                             | F/2           |               |
| <i>Fibrocapsa japonica</i>                    | CAWR02               | L. Rhodes       | Leigh, NZ                                                | 1992                   |                             | F/2           |               |
| <i>Fibrocapsa japonica</i>                    | CAWR03               | K. Yuki         | <b>Tsuda Bay Japan (CSIRO)</b>                           | 16/10/98               | NIES-136/<br>CS-332         | GP            | Not available |
| <i>Fibrocapsa japonica</i>                    | CAWR19               | L. Rhodes       | Wellington Harbour, NZ                                   | Aug.1999               |                             | L 1           |               |
| <i>Heterosigma akashiwo</i>                   | CAWR04               | J. L. Stauber   | <b>West Lake, Australia<br/>(CSIRO)</b>                  | 1995                   | CS-169                      | GP            | Not available |
| <i>Heterosigma akashiwo</i>                   | CAWR05               | L. MacKenzie    | Big Glory Bay, NZ                                        | 1989                   |                             | GP            |               |

## Marine Algae

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|-----------------------------|----------------------|-----------------------|------------------------------------------------|-----------------------|------------------------------|---------------|----------------------------------------|
| <b>Raphidophyceae</b>       |                      |                       |                                                |                       |                              |               |                                        |
| <i>Heterosigma akashiwo</i> | CAWR06               | L. Rhodes             | Leigh, NZ                                      | 1992                  |                              | GP            |                                        |
| <i>Heterosigma akashiwo</i> | CAWR08               | L. Rhodes             | Ruakaka, NZ                                    | 1997                  |                              | GP            |                                        |
| <i>Heterosigma akashiwo</i> | CAWR09               | L. MacKenzie          | Nelson Harbour, NZ                             | 1992                  |                              | GP            |                                        |
| <i>Heterosigma akashiwo</i> | CAWR13               | L. MacKenzie          | Hauraki Gulf, NZ                               | 1992                  |                              | GP            | Identified by L. Connell               |
| <i>Heterosigma akashiwo</i> | CAWR14               | RA Cattolico          | <b>Manchester, Puget Sound, USA</b>            | 25/11/97              | Man E                        | GP            | Not available. Deposited by J. Tyrrell |
| <i>Heterosigma akashiwo</i> | CAWR15               | JNC Whyte<br>E. Black | <b>Barkley Sound, Vancouver Island, Canada</b> | 25/11/97              | ABC <sup>2</sup> , NWFSC 502 | GP            | Not available. Deposited by J. Tyrrell |

|                                          |         |             |            |          |  |   |  |
|------------------------------------------|---------|-------------|------------|----------|--|---|--|
| <b>Raphephyceae</b>                      |         |             |            |          |  |   |  |
| <i>Pavlova</i><br><i>ranunculiformis</i> | CAWRp21 | Othman Bojo | Tapeka, NZ | 24/07/98 |  | K |  |

## Freshwater Algae

| Phylum/Class/Species                                                     | Cawthron code number | Isolator   | Site of isolation and/or source | Date of entry to CICCM | Original strain designation                | Culture Media | Comment                    |
|--------------------------------------------------------------------------|----------------------|------------|---------------------------------|------------------------|--------------------------------------------|---------------|----------------------------|
| <b>Phylum Chlorophyta</b><br><b>Class Chlorophyceae</b><br>(Green algae) |                      |            |                                 |                        |                                            |               |                            |
| <i>Chlamydomonas reinhardtii</i>                                         | CAWG501              | G.M. Smith | <b>Massachusetts USA</b>        | 20/09/06               | Clones from soil organism isolated in 1945 | TAP           | Not available<br>Cryo only |
| <i>Chloromonas rubroleosa</i>                                            | CAWG513              | Phil Novis | Canyon Creek, NZ                | 20/01/23               | Canyon 1/1                                 | 10% MLA       | Not available              |
| <i>Chloromonas</i> sp.                                                   | CAWG515              | Phil Novis | Kahurangi, NZ                   | 23/03/23               | Arthur 4/1                                 | 10% MLA       | Not available<br>Cryo only |
| <i>Pediastrum</i> sp.                                                    | CAWG505              | S. Wood    | Karori Reservoir in Wellington  | 15/04/14               |                                            | MLA           | Cryo only                  |
| Unidentified Chlorophyceae                                               | CAWG504              | S. Wood    | Karori Reservoir in Wellington  | 15/04/14               |                                            | MLA           | Cryo only                  |
| Unidentified Chlorophyceae                                               | CAWG506              | S. Wood    |                                 | 06/09/16               | Green SPA1                                 | MLA           | Cryo only                  |
| Unidentified Chlorophyceae                                               | CAWG507              | S. Wood    |                                 | 06/09/16               | Green SPA3                                 | MLA           | Cryo only                  |
| Unidentified Chlorophyceae                                               | CAWG508              | S. Wood    |                                 | 06/09/16               | Green SPB                                  | MLA           | Cryo only                  |

## Freshwater Algae

| Phylum/Class/Species                    | Cawthron code number | Isolator   | Site of Isolation and/or source | Date of entry to CICCM | Original strain designation | Culture Media | Comment                    |
|-----------------------------------------|----------------------|------------|---------------------------------|------------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Chlorophyta</b> (Green algae) |                      |            |                                 |                        |                             |               |                            |
| <b>Class Trebouxiophyceae</b>           |                      |            |                                 |                        |                             |               |                            |
| <i>Choricystis coccoides</i>            | CAWG503              |            | Lake Tahoe, USA                 | 23/02/10               |                             | MLA           | Not available              |
| <i>Prasiola</i> sp.                     | CAWG512              | Jihee Kim  | Cape Hallet Antarctica          | 08/11/18               | PN2004_91_93                | MLA modified  | Not available              |
| <i>Raphidonema sempervirens</i>         | CAWG514              | Phil Novis | Sealey Range, NZ                | 20/01/23               | Mueller 1/1                 | 10% MLA       | Not available<br>Cryo only |
| <i>Stichococcus chodati</i>             | CAWG502              |            | Lake Tahoe, USA                 | 23/02/10               |                             | MLA           | Not available              |
| <b>Phylum Chlorophyta</b> (Green Algae) |                      |            |                                 |                        |                             |               |                            |
| <b>Class not yet identified</b>         |                      |            |                                 |                        |                             |               |                            |
| Unidentified Chlorophyta                | CAWG509              | S. Wood    |                                 | 06/09/16               | Green SPC                   | MLA           | Cryo only                  |

## Freshwater Algae

| Phylum/Class/Species                                                        | Cawthron code number | Isolator            | Site of Isolation and/or source | Date of entry to CICC | Original strain designation | Culture Media | Comment                    |
|-----------------------------------------------------------------------------|----------------------|---------------------|---------------------------------|-----------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                     |                                 |                       |                             |               |                            |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG01              | Wayne W. Carmichael | <b>Durham, New Hampshire</b>    | September 1996        |                             | MLA           | Not available<br>Cryo only |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG588             | Susie Wood          | Lake Whangape, Waikato, NZ      | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG594             | Susie Wood          | Lake Waiporohita, Northland, NZ | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG595             | Susie Wood          | Lake Waiporohita, Northland, NZ | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG597             | Susie Wood          | Lake Johnson, Auckland, NZ      | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG599             | Susie Wood          | Lake Waikare, Waikato, NZ       | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG600             | Susie Wood          | Lake Waikare, Waikato, NZ       | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG612             | Susie Wood          | Lake Mokeno, Northland, NZ      | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanizomenon</i> sp.                                                    | CAWBG613             | Susie Wood          | Lake Mokeno, Northland, NZ      | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanocapsa</i> sp.                                                      | CAWBG585             | Susie Wood          | Lake Rotomanu, Taranaki, NZ     | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Aphanocapsa</i> sp.                                                      | CAWBG615             | Susie Wood          | Lake Humuhumu, Northland, NZ    | 15/04/14              |                             | MLA           | Cryo only                  |

## Freshwater Algae

| Phylum/Class/Species                                                        | Cawthron code number | Isolator                 | Site of Isolation and/or source | Date of entry to CICC | Original strain designation | Culture Media | Comment    |
|-----------------------------------------------------------------------------|----------------------|--------------------------|---------------------------------|-----------------------|-----------------------------|---------------|------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                          |                                 |                       |                             |               |            |
| <i>Calothrix sp.</i>                                                        | CAWBG78              | Francine Smith           | Lake Ruataniwha, NZ             | 22/09/11              | UCFS26                      | MLA or BG110  | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG80              | Francine Smith           | Lake Ohau, NZ                   | 22/09/11              | UCFS28                      | MLA or BG110  | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG89              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                | 22/09/11              | CAWJW16                     | MLA           | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG91              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                | 22/09/11              | CAWJW18                     | MLA           | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG535             | Susie Wood               |                                 | 22/09/11              | CYN84                       | MLA           | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG539             | Susie Wood               |                                 | 22/09/11              | CYN89                       | MLA           | Cryo only  |
| <i>Calothrix sp.</i>                                                        | CAWBG546             | Susie Wood               |                                 | 22/09/11              | CYN100                      | MLA           | Cryo only  |
| <i>Cuspidothrix issatschenkoi</i>                                           | CAWBG02              | Anna Crowe               | Lake Hakanoa, NZ                | March 2005            | HAKA01/<br>CYN16            | MLA           | Live +Cryo |
| <i>Cuspidothrix issatschenkoi</i>                                           | CAWBG31              | Susie Wood               |                                 | 01/07/09              | CYN58                       | MLA           | Cryo only  |
| <i>Cylindrospermopsis sp.</i>                                               | CAWBG598             | Susie Wood               | Lake Waikare,<br>Waikato, NZ    | 15/04/14              |                             | MLA           | Cryo only  |
| <i>Cylindrospermopsis sp.</i>                                               | CAWBG614             | Susie Wood               | Lake Waikare,<br>Waikato, NZ    | 15/04/14              |                             | MLA           | Cryo only  |

## Freshwater Algae

| Phylum/Class/Species                                                        | Cawthron code number | Isolator   | Site of Isolation and/or source    | Date of entry to CICC | Original strain designation | Culture Media | Comment   |
|-----------------------------------------------------------------------------|----------------------|------------|------------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                    |                       |                             |               |           |
| <i>Dolichospermum circinale</i>                                             | CAWBG571             | Susie Wood | Lake Rotokare, Taranaki, NZ        | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG575             | Susie Wood | Lake Rotokauri, Waikato, NZ        | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG601             | Susie Wood | Karori-lower Lake, Hawke's Bay, NZ | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG602             | Susie Wood | Karori-lower Lake, Hawke's Bay, NZ | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG603             | Susie Wood | Lake Waitawa, Wellington, NZ       | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG605             | Susie Wood | Lake Waiporohita, Northland, NZ    | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG682             | Susie Wood |                                    | 29/05/19              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG683             | Susie Wood |                                    | 29/05/19              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG685             | Susie Wood |                                    | 29/05/19              |                             | MLA           | Cryo only |
| <i>Dolichospermum circinale</i>                                             | CAWBG689             | Susie Wood |                                    | 29/05/19              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG03              | Susie Wood |                                    | 18/03/08              | CYN41                       | MLA           | Cryo only |



## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |           |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG96              | Susie Wood |                                 | 22/09/11              | CYN77                       | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG564             | Susie Wood | Lake Pauri, Wellington, NZ      | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG565             | Susie Wood | Lake Pauri, Wellington, NZ      | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG567             | Susie Wood | Lake Tutira, Hawke's Bay, NZ    | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG568             | Susie Wood | Lake Tutira, Hawke's Bay, NZ    | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG572             | Susie Wood | Lake Rotokare, Taranaki, NZ     | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG573             | Susie Wood | Lake Rotokare, Taranaki, NZ     | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG574             | Susie Wood | Lake Rotokauri, Waikato, NZ     | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG576             | Susie Wood | Lake Dudding, Wellington, NZ    | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG577             | Susie Wood | Lake Dudding, Wellington, NZ    | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG592             | Susie Wood | Lake Waiholā, Otago, NZ         | 15/04/14              |                             | MLA           | Cryo only |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |            |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG593             | Susie Wood | Lake Waiholo, Otago, NZ         | 15/04/14              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG677             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG678             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG679             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG680             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Live +Cryo |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG681             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG684             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG686             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG688             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG690             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG691             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only  |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |           |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG692             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG693             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG694             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG696             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG697             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum lemmermannii</i>                                          | CAWBG698             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG04              | Susie Wood | Lower Karori Reservoir          | 20/09/07              | CYN01                       | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG05              | Susie Wood |                                 | 02/10/07              | CYN37                       | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG589             | Susie Wood | Lake Hakanoa, Waikato, NZ       | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG590             | Susie Wood | Lake Hakanoa, Waikato, NZ       | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG591             | Susie Wood | Lake Hakanoa, Waikato, NZ       | 15/04/14              |                             | MLA           | Cryo only |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |           |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG649             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG650             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG651             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG653             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG654             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG655             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG657             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG658             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG659             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG660             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |
| <i>Dolichospermum planctonicum</i>                                          | CAWBG661             | Susie Wood |                                 | 29/05/18              |                             | MLA           | Cryo only |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                       |                                   |                       |                             |               |           |
| <i>Dolichospermum spiroides</i>                                             | CAWBG547             | Susie Wood            |                                   | 22/09/11              | CYN101                      | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG548             | Susie Wood            |                                   | 23/09/11              | CYN102                      | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG558             | Susie Wood            | Lake Tutira, Hawke's Bay, NZ      | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG583             | Susie Wood            | Lake Roundabout, Canterbury, NZ   | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG584             | Susie Wood            | Lake Roundabout, Canterbury, NZ   | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG606             | Susie Wood            | Sullivans Lake, Bay of Plenty, NZ | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum spiroides</i>                                             | CAWBG607             | Susie Wood            | Sullivans Lake, Bay of Plenty, NZ | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG85              | Jodie Wall, L. Rhodes | Lake Omapere, NZ                  | 22/09/11              | CAWJW09                     | MLA           | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG86              | Jodie Wall, L. Rhodes | Lake Omapere, NZ                  | 22/09/11              | CAWJW10                     | MLA           | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG98              | Susie Wood            |                                   | 22/09/11              | CYN80                       | MLA           | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG526             | Francine Smith        | Hinewai Reserve, NZ               | 15/03/10              | UCFS09                      | MLA or BG11   | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG581             | Susie Wood            | Lake Opunaki, Taranaki, NZ        | 15/04/14              |                             | MLA           | Cryo only |
| <i>Dolichospermum sp.</i>                                                   | CAWBG582             | Susie Wood            | Lake Opunaki, Taranaki, NZ        | 15/04/14              |                             | MLA           | Cryo only |

## Freshwater Algae

| Phylum/Class/Species                                                        | Cawthron code number | Isolator              | Site of Isolation and/or source                         | Date of entry to CICCM | Original strain designation | Culture Media | Comment                    |
|-----------------------------------------------------------------------------|----------------------|-----------------------|---------------------------------------------------------|------------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                       |                                                         |                        |                             |               |                            |
| <i>Dolichospermum</i> sp.                                                   | CAWBG608             | Susie Wood            | Lake Karapiro, Waikato, NZ                              | 15/04/14               |                             | MLA           | Cryo only                  |
| <i>Dolichospermum</i> sp.                                                   | CAWBG610             | Susie Wood            | Lake Ngakapua, Northland, NZ                            | 15/04/14               |                             | MLA           | Cryo only                  |
| <i>Geitlerinema</i> sp.                                                     | CAWBG533             | Francine Smith        | Waiau River, NZ                                         | 15/03/10               | UCFS03                      | MLA or BG11   | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG62              | Susie Wood            | <b>Tut Pond, Nostoc Mat, Pyramid Trough, Antarctica</b> | 12/08/10               | CYN65                       | MLA           | Not available<br>Cryo only |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG65              | Susie Wood            | <b>Egypt 'attached' Pyramid Trough, Antarctica</b>      | 12/08/10               | CYN68                       | MLA           | Not available<br>Cryo only |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG100             | Susie Wood            |                                                         | 22/09/11               | CYN82                       | MLA           | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG124             | Jodie Wall, L. Rhodes | <b>Waihou Stream, NZ</b>                                | 22/09/11               | CAWJW26                     | MLA           | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG532             | Francine Smith        | <b>Waiau River, NZ</b>                                  | 15/03/10               | UCFS02                      | MLA or BG11   | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG540             | Susie Wood            |                                                         | 22/09/11               | CYN91                       | MLA           | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG543             | Susie Wood            |                                                         | 22/09/11               | CYN95                       | MLA           | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG586             | Susie Wood            | <b>Lake Rotomanu, Taranaki, NZ</b>                      | 15/04/14               |                             | MLA           | Cryo only                  |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG609             | Susie Wood            | <b>Lake Pupuke, Auckland, NZ</b>                        | 15/04/14               |                             | MLA           | Cryo only                  |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|-----------------------------------|------------------------|-----------------------------|---------------|-------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                   |                        |                             |               |             |
| <i>Leptolyngbya</i> sp.                                                     | CAWBG634             | Susie Wood |                                   | 06/09/16               | RH5                         | MLA           | Cryo only   |
| <i>Limothrix</i> sp.                                                        | CAWBG541             | Susie Wood |                                   | 22/09/11               | CYN92                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG24              | Susie Wood |                                   | 20/09/07               | CYN47                       | MLA           | Live + Cryo |
| <i>Microcoleus autumnalis</i>                                               | CAWBG25              | Susie Wood |                                   | 02/10/07               | CYN48                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG26              | Susie Wood |                                   | 20/09/07               | CYN49                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG32              | Susie Wood |                                   | 01/07/09               | CYN53                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG33              | Susie Wood |                                   | 01/07/09               | CYN55                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG34              | Susie Wood |                                   | 01/07/09               | CYN56                       | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG36              | Mark Heath | Avalon Duck Pond, Wellington, NZ  | 23/09/11               | VUW1                        | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG37              | Mark Heath | Lake Heneley, Masterton, NZ       | 23/09/11               | VUW2                        | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG38              | Mark Heath | Wainuiomata River, Wellington, NZ | 23/09/11               | VUW3                        | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG39              | Mark Heath | Wainuiomata River, Wellington, NZ | 23/09/11               | VUW4                        | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG40              | Mark Heath | Waingongoro River, Stratford, NZ  | 23/09/11               | VUW5                        | MLA           | Cryo only   |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|-------------------------------------|------------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                     |                        |                             |               |           |
| <i>Microcoleus autumnalis</i>                                               | CAWBG42              | Mark Heath | Wainuiomata River, Wellington, NZ   | 23/09/11               | VUW7                        | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG43              | Mark Heath | Akatarawa River, Wellington, NZ     | 23/09/11               | VUW8                        | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG44              | Mark Heath | Wainuiomata River, Wellington, NZ   | 23/09/11               | VUW9                        | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG45              | Mark Heath | Wainuiomata River, Wellington, NZ   | 23/09/11               | VUW10                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG46              | Mark Heath | Wainuiomata River, Wellington, NZ   | 23/09/11               | VUW11                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG47              | Mark Heath | Wainuiomata River, Wellington, NZ   | 23/09/11               | VUW12                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG48              | Mark Heath | Hutt River, Wellington, NZ          | 23/09/11               | VUW14                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG50              | Mark Heath | Pelorus River, Nelson, NZ           | 23/09/11               | VUW16                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG51              | Mark Heath | Mangatinoka Stream Manawatu, NZ     | 23/09/11               | VUW17                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG52              | Mark Heath | Mangatinoka Stream Manawatu, NZ     | 23/09/11               | VUW18                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG53              | Mark Heath | Mangaroa River, Wellington, NZ      | 23/09/11               | VUW19                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG54              | Mark Heath | Rangataiki River, Bay of Plenty, NZ | 23/09/11               | VUW20                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG55              | Mark Heath | Whakatane River, Bay of Plenty, NZ  | 23/09/11               | VUW21                       | MLA           | Cryo only |



## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|----------------|----------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                |                                  |                       |                             |               |           |
| <i>Microcoleus autumnalis</i>                                               | CAWBG56              | Mark Heath     | Waimana River, Bay of Plenty, NZ | 23/09/11              | VUW22                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG57              | Mark Heath     | Godley River Tributary, NZ       | 23/09/11              | VUW23                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG58              | Mark Heath     | Tukituki River, Hawkes Bay, NZ   | 23/09/11              | VUW24                       | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG71              | Francine Smith | Kaipoi River, NZ                 | 22/09/11              | UCFS13                      | MLA or BG11   | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG501             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN113                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG502             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN114                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG503             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN115                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG504             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN116                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG505             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN117                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG506             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN118                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG507             | Mark Heath     | Hutt River Wgt. NZ               | 23/09/11              | CYN119                      | MLA           | Cryo only |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|-----------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |           |
| <i>Microcoleus autumnalis</i>                                               | CAWBG508             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN120                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG509             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN121                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG510             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN122                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG511             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN123                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG512             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN124                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG513             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN125                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG515             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN127                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG516             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN128                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG517             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN129                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG518             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN130                      | MLA           | Cryo only |
| <i>Microcoleus autumnalis</i>                                               | CAWBG520             | Mark Heath | Hutt River Wgt. NZ              | 23/09/11              | CYN132                      | MLA           | Cryo only |

## Freshwater Algae

| Phylum/Class/Species                                                        | Cawthron code number | Isolator       | Site of Isolation and/or source | Date of entry to CICC | Original strain designation | Culture Media | Comment     |
|-----------------------------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------|-----------------------------|---------------|-------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                |                                 |                       |                             |               |             |
| <i>Microcoleus autumnalis</i>                                               | CAWBG521             | Mark Heath     | Hutt River Wgt. NZ              | 23/09/11              | CYN133                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG523             | Francine Smith | Bowenvale Reserve, NZ           | 15/03/10              | UCFS12                      | MLA or BG11   | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG527             | Francine Smith | Ashley River, NZ                | 15/03/10              | UCFS04                      | MLA or BG11   | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG528             | Francine Smith | Waiau River, NZ                 | 15/03/10              | UCFS05                      | MLA or BG11   | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG529             | Francine Smith | Waiau River, NZ                 | 15/03/10              | UCFS07                      | MLA or BG11   | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG623             | Susie Wood     | Kaikoura                        | 06/09/16              |                             | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG635             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-01                      | MLA           | Live + Cryo |
| <i>Microcoleus autumnalis</i>                                               | CAWBG636             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-02                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG637             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-03                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG638             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-04                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG639             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-05                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG640             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-06                      | MLA           | Cryo only   |
| <i>Microcoleus autumnalis</i>                                               | CAWBG641             | Susie Wood     | Cardrona River, Wanaka, NZ      | 13/11/18              | Car-07                      | MLA           | Cryo only   |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|------------------------------------------------------------|------------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                                            |                        |                             |               |                            |
| <i>Microcoleus autumnalis</i>                                               | CAWBG642             | Susie Wood | Cardrona River, Wanaka, NZ                                 | 13/11/18               | Car-08                      | MLA           | Cryo only                  |
| <i>Microcoleus autumnalis</i>                                               | CAWBG643             | Susie Wood | Cardrona River, Wanaka, NZ                                 | 13/11/18               | Car-09                      | MLA           | Cryo only                  |
| <i>Microcoleus autumnalis</i>                                               | CAWBG644             | Susie Wood | Cardrona River, Wanaka, NZ                                 | 13/11/18               | Car-10                      | MLA           | Cryo only                  |
| <i>Microcoleus autumnalis</i>                                               | CAWBG645             | Susie Wood | Cardrona River, Wanaka, NZ                                 | 13/11/18               | Car-11                      | MLA           | Cryo only                  |
| <i>Microcoleus autumnalis</i>                                               | CAWBG646             | Susie Wood | Cardrona River, Wanaka, NZ                                 | 13/11/18               | Car-12                      | MLA           | Cryo only                  |
| <i>Microcoleus glaciei</i>                                                  | CAWBG22              | Susie Wood | Red Hills #4                                               | 20/09/07               | CYN38                       | MLA           | Cryo only                  |
| <i>Microcoleus glaciei</i>                                                  | CAWBG23              | Susie Wood |                                                            | 02/10/07               | CYN39                       | MLA           | Cryo only                  |
| <i>Microcoleus</i> sp.                                                      | CAWBG63              | Susie Wood | <b>Cleopatra Pond ,<br/>Pyramid Trough,<br/>Antarctica</b> | 12/08/10               | CYN66                       | MLA           | Not available<br>Cryo only |
| <i>Microcoleus</i> sp.                                                      | CAWBG27              | Susie Wood | Hutt River                                                 | 17/10/07               | CYN50                       | MLA           | Cryo only                  |
| <i>Microcoleus</i> sp.                                                      | CAWBG28              | Susie Wood |                                                            | 02/10/07               | CYN51                       | MLA           | Cryo only                  |
| <i>Microcoleus</i> sp.                                                      | CAWBG61              | Susie Wood | <b>Cleopatra Pond,<br/>Pyramid Trough,<br/>Antarctica</b>  | 12/08/10               | CYN64                       | MLA           | Not available<br>Cryo only |
| <i>Microcoleus</i> sp.                                                      | CAWBG94              | Susie Wood |                                                            | 22/09/11               | CYN75                       | MLA           | Cryo only                  |
| <i>Microcoleus</i> sp.                                                      | CAWBG549             | Susie Wood |                                                            | 23/09/11               | CYN104                      | MLA           | Cryo only                  |

## Freshwater Algae

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| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |               |                                 |                       |                             |               |             |
| <i>Microcoleus</i> sp.                                                      | CAWBG550             | Susie Wood    |                                 | 23/09/11              | CYN105                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG551             | Susie Wood    |                                 | 23/09/11              | CYN106                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG552             | Susie Wood    |                                 | 23/09/11              | CYN107                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG553             | Susie Wood    |                                 | 23/09/11              | CYN108                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG554             | Susie Wood    |                                 | 23/09/11              | CYN109                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG555             | Susie Wood    |                                 | 23/09/11              | CYN110                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG556             | Susie Wood    |                                 | 23/09/11              | CYN111                      | MLA           | Cryo only   |
| <i>Microcoleus</i> sp.                                                      | CAWBG557             | Susie Wood    |                                 | 23/09/11              | CYN112                      | MLA           | Cryo only   |
| <i>Microcystis aeruginosa</i>                                               | CAWBG624             | Susie Wood    | Lake Rotorua, Kaikoura, NZ      | 06/09/16              | RotoA                       | MLA           | Cryo only   |
| <i>Microcystis aeruginosa</i>                                               | CAWBG617             | Susie Wood/JP | Lake Rotorua, Kaikoura, NZ      | 21/11/16              | RotoD                       | MLA           | Live + Cryo |
| <i>Microcystis panniformis</i>                                              | CAWBG06              | Susie Wood    |                                 | 30/11/05              | CYN17                       | MLA           | Cryo only   |
| <i>Microcystis wesenbergii</i>                                              | CAWBG07              | Susie Wood    |                                 | 30/11/05              | CYN18                       | MLA           | Cryo only   |
| <i>Microcystis wesenbergii</i>                                              | CAWBG08              | Susie Wood    | Lake Hakanoa                    | 20/09/07              | CYN26                       | MLA           | Cryo only   |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------|---------------------------------|-----------------------|-----------------------------|---------------|-------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |            |                                 |                       |                             |               |             |
| <i>Microcystis wesenbergii</i>                                              | CAWBG09              | Susie Wood |                                 | 20/09/07              | CYN34                       | MLA           | Cryo only   |
| <i>Microcystis wesenbergii</i>                                              | CAWBG647             | Susie Wood |                                 | 06/09/16              | Strain 2                    | MLA           | Live + Cryo |
| <i>Microcystis wesenbergii</i>                                              | CAWBG648             | Susie Wood |                                 | 06/09/16              | Strain5                     | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG10              | Susie Wood |                                 | 02/10/07              | CYN04                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG11              | Susie Wood | Lake Hakanoa, Huntly            | 30/11/05              | CYN06                       | MLA           | Live + Cryo |
| <i>Microcystis</i> sp.                                                      | CAWBG12              | Susie Wood |                                 | 30/11/05              | CYN07                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG13              | Susie Wood |                                 | 30/11/05              | CYN08                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG14              | Susie Wood |                                 | 30/11/05              | CYN09                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG15              | Susie Wood |                                 | 30/11/05              | CYN10                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG16              | Susie Wood |                                 | 30/11/05              | CYN11                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG17              | Susie Wood |                                 | 30/11/05              | CYN12                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG18              | Susie Wood |                                 | 30/11/05              | CYN21                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG19              | Susie Wood |                                 | 30/11/05              | CYN27                       | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG559             | Susie Wood | Lake Virginia, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |

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|-----------------------------------------------------------------------------|----------------------|------------------|---------------------------------|-----------------------|-----------------------------|---------------|-------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                  |                                 |                       |                             |               |             |
| <i>Microcystis</i> sp.                                                      | CAWBG560             | Susie Wood       | Lake Virginia, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG561             | Susie Wood       | Lake Virginia, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG562             | Susie Wood       | Lake Virginia, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG563             | Susie Wood       | Lake Pauri, Wellington, NZ      | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG566             | Susie Wood       | Lake Pauri, Wellington, NZ      | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG569             | Susie Wood       | Lake Horowhenua, Wellington, NZ | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG570             | Susie Wood       | Lake Pauri, Wellington, NZ      | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG579             | Susie Wood       | Lake Westmere, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG580             | Susie Wood       | Lake Westmere, Wellington, NZ   | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG587             | Susie Wood       | Lake Rotomanu, Taranaki, NZ     | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG604             | Susie Wood       | Lake Waitawa, Wellington, NZ    | 15/04/14              |                             | MLA           | Cryo only   |
| <i>Microcystis</i> sp.                                                      | CAWBG706             | Jonathan Puddick | Lake Waitawa, NZ                | 17/06/21              |                             | MLA           |             |
| <i>Nodularia spumigena</i>                                                  | CAWBG20              | Susie Wood       |                                 | 20/09/07              | CYN43                       | MLA           | Cryo only   |
| <i>Nodularia spumigena</i>                                                  | CAWBG21              | Susie Wood       | Lake Forsyth, NZ                | 02/10/07              | CYN45                       | MLA           | Live + Cryo |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|------------------|----------------------------------------------------------|-----------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                  |                                                          |                       |                             |               |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG703             | Susie Wood       | Whakaki Lagoon, Hawkes Bay, NZ                           | 17/06/21              | Hawkes Bay A                | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG704             | Susie Wood       | Whakaki Lagoon, Hawkes Bay, NZ                           | 17/06/21              | Hawkes Bay B                | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG709             | Laura Kelly      | Whakaki Lagoon, Hawkes Bay, NZ                           | 17/06/21              | Whakaki 1                   | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG712             | Jonathan Puddick | Lake Forsyth, NZ                                         | 17/06/21              | Wairewa 1                   | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG713             | Jonathan Puddick | Lake Forsyth, NZ                                         | 17/06/21              | Wairewa 3                   | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG714             | Jonathan Puddick | Lake Forsyth, NZ                                         | 17/06/21              | Wairewa 7                   | MLA           |                            |
| <i>Nodularia spumigena</i>                                                  | CAWBG715             | Jonathan Puddick | Lake Forsyth, NZ                                         | 17/06/21              | Wairewa 9                   | MLA           |                            |
| <i>Nostoc</i> sp.                                                           | CAWBG29              | Susie Wood       |                                                          | 12/08/10              | CYN63                       | MLA           | Cryo only                  |
| <i>Nostoc</i> sp.                                                           | CAWBG30              | Susie Wood       |                                                          | 31/08/09              | CYN62                       | MLA           | Cryo only                  |
| <i>Nostoc</i> sp.                                                           | CAWBG67              | Susie Wood       | <b>Tut Pond , Nostoc Mat, Pyramid Trough, Antarctica</b> | 12/08/10              | CYN70                       | MLA           | Not available<br>Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG77              | Francine Smith   | <b>Lake Ruataniwha, NZ</b>                               | 22/09/11              | UCFS25                      | MLA or BG110  | Cryo only                  |
| <i>Nostoc</i> sp.                                                           | CAWBG79              | Francine Smith   | <b>Lake Middleton, NZ</b>                                | 22/09/11              | UCFS27                      | MLA or BG110  | Cryo only                  |
| <i>Nostoc</i> sp.                                                           | CAWBG93              | Susie Wood       |                                                          | 22/09/11              | CYN74                       | MLA           | Cryo only                  |



## Freshwater Algae

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| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                       |                                 |                       |                             |               |           |
| <i>Nostoc</i> sp.                                                           | CAWBG121             | Jodie Wall, L. Rhodes | Waihou Stream, NZ               | 22/09/11              | CAWJW23                     | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG625             | Susie Wood            |                                 | 06/09/16              | Nostoc 1                    | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG626             | Susie Wood            |                                 | 06/09/16              | Nostoc 2                    | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG627             | Susie Wood            |                                 | 06/09/16              | Nostoc 3                    | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG628             | Susie Wood            |                                 | 06/09/16              | Nostoc 5                    | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG629             | Susie Wood            |                                 | 06/09/16              | Nostoc 6                    | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG663             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG666             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG667             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG668             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG669             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG670             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG671             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |
| <i>Nostoc</i> sp.                                                           | CAWBG673             | Susie Wood            |                                 | 29/05/19              |                             | MLA           | Cryo only |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|----------------|---------------------------------------------------|-----------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                |                                                   |                       |                             |               |                            |
| <i>Nostoc</i> sp.                                                           | CAWBG674             | Susie Wood     |                                                   | 29/05/19              |                             | MLA           | Cryo only                  |
| <i>Nostoc</i> sp.                                                           | CAWBG702             | Unknown        | NZ                                                | 17/06/21              | Mann5-2                     | MLA           |                            |
| <i>Oscillatoria</i> sp.                                                     | CAWBG534             | Susie Wood     |                                                   | 22/09/11              | CYN83                       | MLA           | Cryo only                  |
| <i>Oscillatoria</i> sp.                                                     | CAWBG538             | Susie Wood     |                                                   | 22/09/11              | CYN87                       | MLA           | Cryo only                  |
| <i>Phormidium priestleyi</i>                                                | CAWBG68              | Susie Wood     | Tut Pond , Nostoc Mat, Pyramid Trough, Antarctica | 12/08/10              | CYN71                       | MLA           | Not available<br>Cryo only |
| <i>Planktotrix</i> sp.                                                      | CAWBG35              | Susie Wood     |                                                   | 01/07/09              | CYN61                       | MLA           | Cryo only                  |
| <i>Planktotrix</i> sp.                                                      | CAWBG59              | Susie Wood     |                                                   | 01/07/09              | VUW25/CYN60                 | MLA           | Cryo only                  |
| <i>Planktotrix</i> sp.                                                      | CAWBG616             | Susie Wood     | Pukepuke, Auckland, NZ                            | 15/04/14              |                             | MLA           | Cryo only                  |
| <i>Pseudanabaena</i> sp.                                                    | CAWBG49              | Mark Heath     | Whakatikei River, Wellington, NZ                  | 23/09/11              | VUW15                       | MLA           | Cryo only                  |
| <i>Pseudanabaena</i> sp.                                                    | CAWB530              | Francine Smith | Selwyn River, NZ                                  | 15/03/10              | UCFS01                      | MLA or BG11   | Cryo only                  |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|----------------|-------------------------------------------|-----------------------|-----------------------------|---------------|-------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                |                                           |                       |                             |               |             |
| <i>Pseudanabaena</i> sp.                                                    | CAWBG531             | Francine Smith | Waiau River, NZ                           | 15/03/10              | UCFS06                      | MLA or BG11   | Cryo only   |
| <i>Scytonema</i> cf. <i>crispum</i>                                         | CAWBG72              | Francine Smith | South Island Drinking Water Reservoir, NZ | 22/09/11              | UCFS15                      | MLA or BG110  | Live + Cryo |
| <i>Scytonema</i> cf. <i>crispum</i>                                         | CAWBG73              | Francine Smith | Lake Alexandrina, NZ                      | 22/09/11              | UCFS16                      | MLA or BG110  | Cryo only   |
| <i>Scytonema</i> cf. <i>crispum</i>                                         | CAWBG74              | Francine Smith | Lake Benmore, NZ                          | 22/09/11              | UCFS17                      | MLA or BG110  | Cryo only   |
| <i>Scytonema</i> cf. <i>crispum</i>                                         | CAWBG524             | Francine Smith | Groynes Recreational Reserve, NZ          | 15/03/10              | UCFS10                      | MLA or BG11   | Live + Cryo |
| <i>Scytonema</i> cf. <i>fritschii</i>                                       | CAWBG75              | Francine Smith | Lake Sarah                                | 22/09/11              | UCFS23                      | MLA or BG110  | Cryo only   |
| <i>Scytonema</i> sp.                                                        | CAWBG630             | Susie Wood     |                                           | 06/09/16              | RH1                         | MLA           | Cryo only   |
| <i>Scytonema</i> sp.                                                        | CAWBG631             | Susie Wood     |                                           | 06/09/16              | RH2                         | MLA           | Cryo only   |
| <i>Scytonema</i> sp.                                                        | CAWBG632             | Susie Wood     |                                           | 06/09/16              | RH3                         | MLA           | Cryo only   |
| <i>Scytonema</i> sp.                                                        | CAWBG633             | Susie Wood     |                                           | 06/09/16              | RH4                         | MLA           | Cryo only   |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|-------------------|---------------------------------------------|-----------------------|-----------------------------|---------------|----------------------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                   |                                             |                       |                             |               |                            |
| <i>Synechocystis</i> sp.                                                    | CAWBG542             | Susie Wood        |                                             | 22/09/11              | CYN93                       | MLA           | Cryo only                  |
| <i>Tolypothrix</i> sp.                                                      | CAWBG76              | Francine Smith    | Lake Ruataniwha                             | 22/09/11              | UCFS24                      | MLA or BG110  | Cryo only                  |
| <i>Wilmottia murrayi</i>                                                    | CAWBG95              | Susie Wood        |                                             | 22/09/11              | CYN76                       | MLA           | Cryo only                  |
| <i>Wilmottia</i> sp.                                                        | CAWBG522             | Francine Smith    | Bowenvale Reserve, NZ                       | 15/03/10              | UCFS11                      | MLA or BG11   | Cryo only                  |
| Unidentified sp.<br>Chroococcales                                           | CAWBG64              | Susie Wood        | Colin 'deep', Pyramid Trough, Antarctica    | 12/08/10              | CYN67                       | MLA           | Not available<br>Cryo only |
| Unidentified sp.<br>Chroococcales                                           | CAWBG66              | Susie Wood        | Cleopatra Pond , Pyramid Trough, Antarctica | 12/08/10              | CYN69                       | MLA           | Not available<br>Cryo only |
| Unidentified sp.<br>Chroococcales                                           | CAWBG97              | Susie Wood        |                                             | 22/09/11              | CYN78                       | MLA           | Cryo only                  |
| Unidentified sp.<br>Chroococcales                                           | CAWBG99              | Susie Wood        |                                             | 22/09/11              | CYN81                       | MLA           | Cryo only                  |
| Unidentified sp.<br>Merismopediaceae                                        | CAWBG749             | Lena Schallenberg | Lake Ellesmere, NZ                          | 09/09/21              | EJ2                         | MLA           | Not available              |
| Unidentified sp.<br>(cf <i>Microcystis</i> sp. or <i>Woronichia</i> sp.)    | CAWBG611             | Susie Wood        | Spectacle Lake, Auckland, NZ                | 15/04/14              |                             | MLA           | Cryo only                  |
| Unidentified sp.<br>Nostocales                                              | CAWBG92              | Susie Wood        |                                             | 13/08/10              | CYN73                       | MLA           | Cryo only                  |

## Freshwater Algae

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|-----------------------------------------------------------------------------|----------------------|-------------------|-----------------------------------|------------------------|-----------------------------|---------------|---------------|
| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                   |                                   |                        |                             |               |               |
| Unidentified sp.<br>Nostocales                                              | CAWBG536             | Susie Wood        |                                   | 22/09/11               | CYN85                       | MLA           | Cryo only     |
| Unidentified sp.<br>Nostocales                                              | CAWBG537             | Susie Wood        |                                   | 22/09/11               | CYN86                       | MLA           | Cryo only     |
| Unidentified sp.<br>Nostocales                                              | CAWBG544             | Susie Wood        |                                   | 22/09/11               | CYN96                       | MLA           | Cryo only     |
| Unidentified sp.<br>Pseudanabaenaceae                                       | CAWBG41              | Mark Heath        | Wainuiomata River, Wellington, NZ | 23/09/11               | VUW6                        | MLA           | Cryo only     |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG545             | Susie Wood        |                                   | 22/09/11               | CYN97                       | MLA           | Cryo only     |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG716             | Lena Schallenberg | Lake Havea, NZ                    | 22/07/21               | HWJ4                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG717             | Lena Schallenberg | Lake Hayes, NZ                    | 22/07/21               | HJ2.1                       | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG718             | Lena Schallenberg | Lake Wanaka, NZ                   | 22/07/21               | WAJ14                       | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG719             | Lena Schallenberg | Lake Wakatipu, NZ                 | 22/07/21               | WKJ5                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG720             | Lena Schallenberg | Lake Johnson, NZ                  | 22/07/21               | JJ3                         | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG721             | Lena Schallenberg | Lake Hayes, NZ                    | 22/07/21               | HJ5                         | MLA           | Not available |

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| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                   |                                 |                       |                             |               |               |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG722             | Lena Schallenberg | Lake Ellesmere, NZ              | 22/07/21              | EJ12                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG723             | Lena Schallenberg | Lake Hayes, NZ                  | 09/09/21              | HJ6                         | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG724             | Lena Schallenberg | Lake Wanaka, NZ                 | 09/09/21              | WAJ5                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG726             | Lena Schallenberg | Lake Wanaka, NZ                 | 09/09/21              | WAJ 10                      | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG728             | Lena Schallenberg | Lake Wanaka, NZ                 | 09/09/21              | WAJ13                       | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG729             | Lena Schallenberg | Lake Wanaka, NZ                 | 09/09/21              | WAJ15                       | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG732             | Lena Schallenberg | Lake Wakatipu, NZ               | 09/09/21              | WKJ3                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG733             | Lena Schallenberg | Lake Wakatipu, NZ               | 09/09/21              | WKJ4                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG734             | Lena Schallenberg | Lake Wakatipu, NZ               | 09/09/21              | WKJ7                        | MLA           | Not available |

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| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                   |                                 |                       |                             |               |               |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG735             | Lena Schallenberg | Lake Wakatipu, NZ               | 09/09/21              | WKJ7b                       | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG736             | Lena Schallenberg | Lake Wakatipu, NZ               | 09/09/21              | WKJ8                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG737             | Lena Schallenberg | Lake Hawea, NZ                  | 09/09/21              | HWJ3                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG738             | Lena Schallenberg | Lake Hawea, NZ                  | 09/09/21              | HWJ5                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG739             | Lena Schallenberg | Lake Hawea, NZ                  | 09/09/21              | HWJ6                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG740             | Lena Schallenberg | Lake Hawea, NZ                  | 09/09/21              | HWJ7                        | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG741             | Lena Schallenberg | Lake Johnson, NZ                | 09/09/21              | JJ1                         | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG742             | Lena Schallenberg | Lake Johnson, NZ                | 09/09/21              | JJ2                         | MLA           | Not available |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG745             | Lena Schallenberg | Lake Ellesmere, NZ              | 09/09/21              | EJ5                         | MLA           | Not available |

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| <b>Phylum Cyanophyta</b><br><b>Class Cyanophyceae</b><br>(Blue-green algae) |                      |                          |                                  |                       |                             |               |               |
| Unidentified sp.<br>Synechococcaceae                                        | CAWBG747             | Lena Schallenberg        | Lake Ellesmere, NZ               | 09/09/21              | EJ12b                       | MLA           | Not available |
| Unidentified sp.                                                            | CAWBG90              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW17                     | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG525             | Francine Smith           | Selwyn River, NZ                 | 15/03/10              | UCFS08                      | MLA or BG11   | Cryo only     |
| Unidentified sp.                                                            | CAWBG578             | Susie Wood               | Lake Westmere,<br>Wellington, NZ | 15/04/14              |                             | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG596             | Susie Wood               | Spectacle Lake,<br>Auckland, NZ  | 15/04/14              |                             | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG81              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW02                     | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG82              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW04                     | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG83              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW06                     | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG84              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW08                     | MLA           | Cryo only     |
| Unidentified sp.                                                            | CAWBG88              | Jodie Wall,<br>L. Rhodes | Lake Omapere, NZ                 | 22/09/11              | CAWJW12                     | MLA           | Cryo only     |