

From: Karlien Heyns-5440
Sent: 15 Jan 2020 08:22:41 +1300
To: monitoring
Subject: FW: TN & Chla results attached (December Pelorus - QCS)
Attachments: ek8645.pdf, ek8645.csv, ej8644.csv, ej8644.pdf

Good morning

For consent numbers

U140296 Ngamahau; U140295 Kopaua; U140294 Waitata

Regards
Karlien

From: Mike Crump [mailto:Mike.Crump@niwa.co.nz]
Sent: Tuesday, 14 January 2020 12:39 PM
To: Karlien Heyns-5440
Subject: TN & Chla results attached (December Pelorus - QCS)

Mike Crump
Principal Technician - Water Quality
Group Manager - Water Quality Laboratory
+64-7-856-1739 |
National Institute of Water & Atmospheric Research Ltd (NIWA)
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NIWA HAMILTON WATER QUALITY LABORATORY

CLIENT : Karlien Heyns
 Marlborough District Council
 15 Seymour Street
 Blenheim

LOT NUMBER : 2019001329
 SF NUMBER : EK 8645
 JOB NUMBER : HN20LB/TEST

CHECKED : MC
 APPROVED : MC
 REPORT DATE : 14/01/2020

JOB : Pelorus Sound

Temperature of samples on receipt at the NIWA Hamilton Water Quality Lab: 5°C

NIWA ID	Client ID	Date Collected	Date Received	TN mg/m3	Chla mg/m3
EK1	2020968	17/12/2019	18/12/2019	176	3.9
EK2	2020969	17/12/2019	18/12/2019	178	2.5
EK3	2020970	17/12/2019	18/12/2019	220	0.8
EK4	2020971	17/12/2019	18/12/2019	242	2.1
EK5	2020972	17/12/2019	18/12/2019	198	0.3
EK6	2020973	17/12/2019	18/12/2019	157	1.3
EK7	2020974	17/12/2019	18/12/2019	189	1.4
EK8	2020975	17/12/2019	18/12/2019	152	1.3
EK9	2020976	17/12/2019	18/12/2019	177	0.7
EK10	2020977	17/12/2019	18/12/2019	158	1.8
EK11	2020978	17/12/2019	18/12/2019	167	0.9
EK12	2020979	17/12/2019	18/12/2019	204	1.3

A summary of methods used and detection limits is as follows.

Parameter	Description	Detection Limit	Method
Chlorophyll a(Chla)	Acetone pigment extraction, spectrofluorometric measurement.	0.1	A*10200H
Total Nitrogen(TN)	Persulphate digest, auto cadmium reduction, FIA	10	Lachat

**Samples are held at the laboratory for two months after reporting of results.
 After this date they are discarded unless otherwise advised by the submitter.
 These samples were analysed as received at the laboratory.**



NIWA HAMILTON WATER QUALITY LABORATORY

CLIENT : Karlien Heyns
Marlborough District Council
15 Seymour Street
Blenheim

LOT NUMBER : 2019001322
SF NUMBER : EJ 8644
JOB NUMBER : HN20LB/TEST

CHECKED : MC
APPROVED : MC
REPORT DATE : 14/01/2020

JOB : Queen Charlotte Sound

Temperature of samples on receipt at the NIWA Hamilton Water Quality Lab: 5°C

NIWA ID	Client ID	Date Collected	Date Received	TN mg/m3	Chla mg/m3
EJ1	20202946	16/12/2019	17/12/2019	219	2.0
EJ2	20202947	16/12/2019	17/12/2019	194	0.7
EJ3	20202948	16/12/2019	17/12/2019	164	0.7
EJ4	20202949	16/12/2019	17/12/2019	204	1.8
EJ5	20202950	16/12/2019	17/12/2019	205	0.3
EJ6	20202951	16/12/2019	17/12/2019	214	0.6
EJ7	20202952	16/12/2019	17/12/2019	170	1.4
EJ8	20202953	16/12/2019	17/12/2019	165	0.5
EJ9	20202954	16/12/2019	17/12/2019	181	1.5

A summary of methods used and detection limits is as follows.

Parameter	Description	Detection Limit	Method
Chlorophyll a(Chla)	Acetone pigment extraction, spectrofluorometric measurement.	0.1	A*10200H
Total Nitrogen(TN)	Persulphate digest, auto cadmium reduction, FIA	10	Lachat

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