

8 August 19

Sally McKinnon  
Senior Contaminated Land and Ground Water Scientist  
Gisborne District Council  
15 Fitzherbert Street,  
PO Box 747,  
Gisborne 4010

By e-mail: Sally.McKinnon@gdc.govt.nz

Dear Sally,

**Re: Matawhero Logyard Cell 3 bore monitoring: Consent - DL-2018-108538-00**

Please see below the results of the monitoring undertaken on 31/07/2019 as required by conditions 10 – 28 of consent DL-2018-108538-00.

All recorded parameters were below consent trigger limits. As such, no further actions are required in terms of compliance.

Kind Regards,

**Oliver Bone**  
Ecology Consultant  
**4Sight Consulting Ltd**

# Matawhero Log Yard (Eastland Port) - E004

Monthly Bore Monitoring

Attn: Oliver Bone ([oliverb@4sight.co.nz](mailto:oliverb@4sight.co.nz))



Sample Date: 31/07/2019

Sampler: Dion Williams

DO Probe: 138

## Daily Summary Sheet

Weather Conditions: Fine weather. Not rained for 3 days

Tidal Flow: \_\_\_\_\_

	GW02	New Monitoring Bore
Bore Conditions:	Good	Good
Surrounds Conditions:	Grass cut, logs close by	Grass cut, tidy
Purging Results:	Pumped directly into bottles. No purging beforehand. Couldn't guarantee any water after a purge.	5 litres, before sampling. Clear water.

Comments: \_\_\_\_\_

## Analysis Report

Customer: Eastland Port

Date Received: 31/07/2019 10:45 AM

Address: PO Box 402 053  
Tutukaka, 0153

Date Completed: 7/08/2019 3:29 PM

Attention: Oliver Bone

Purchase Order #:

Sample Type: Water

	Units	2019006624 Bore GW02	2019006625 New Monitoring Bore
		31/07/2019 10:00	31/07/2019 10:36
<b>Test</b>			
Analytica Laboratories Report		19-25901	19-25901
Conductivity @25°C	µS/cm	866	1060
Dissolved Oxygen Field Test*	g/m <sup>3</sup>	3.5	0.80
pH - Water		7.0	6.9
Salinity	ppt	0.4	0.5
Static Water Level	m	1.40	1.51
Temperature	°C	13.5	14.3

Comments: These samples were also analysed by Analytica Laboratories. Please see attached report.

Test Standards:

Test	Methodology
Conductivity @25°C	APHA 23rd Ed 2510 B
Salinity	APHA 23rd Ed 2520 B
pH - Water	APHA 23rd 4500-H+ B
Temperature	APHA 23rd ed 2550 B
Static Water Level	*
Analytica Laboratories Report	
Dissolved Oxygen Field Test*	APHA 23rd Ed 4500 OG

Authorised By:

Libby Dalcom  
Senior Technician  
KTP Microbiology

Certified By:

Brenda Overend  
Laboratory Technician  
KTP Chemistry and Microbiology



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

Methods marked with a \* are not IANZ accredited.

This report shall not be reproduced except in full, without written approval of the laboratory.

"Detailed activity" stating the start and completion dates and times of individual tests have not been recorded on this report. This information is available upon request.

Report ID: 2019080703295181

Date Issued: 7/08/2019

Linnaeus, PO Box 1199, 4 Banks St, Gisborne 4040, New Zealand GST No. 125-375-855  
Tel: +64 6 8678512 Freephone: 0800 254 662 Email: info@linnaeus.co.nz  
www.linnaeus.co.nz



## Certificate of Analysis

Linnaeus  
 4 Banks Street  
 Gisborne 4010  
 Attention: Steve Donnelly  
 Phone: 06 867 8512  
 Email: libby@linnaeus.co.nz

Lab Reference: 19-25901  
 Submitted by: Dion Williams  
 Date Received: 1/08/2019  
 Date Completed: 5/08/2019  
 Order Number: 852  
 Reference: 852

Sampling Site: Matawhero Log Yard (Eastland Port)

### Report Comments

Samples were collected by yourselves (or your agent) and analysed as received at Analytica Laboratories. Samples were in acceptable condition unless otherwise noted on this report.

### Elements in Water (Soluble)

Client Sample ID			2019006624	2019006625
Date Sampled			31/07/2019	31/07/2019
Analyte	Unit	Reporting Limit	19-25901-1	19-25901-2
Copper	g/m <sup>3</sup>	0.0002	0.0016	0.0012
Lead	g/m <sup>3</sup>	0.00005	<0.000050	<0.000050
Zinc	g/m <sup>3</sup>	0.001	0.014	0.0033

### Total Petroleum Hydrocarbons - Water

Client Sample ID			2019006624	2019006625
Date Sampled			31/07/2019	31/07/2019
Analyte	Unit	Reporting Limit	19-25901-1	19-25901-2
C7-C9	g/m <sup>3</sup>	0.2	<0.2	<0.2
C10-C14	g/m <sup>3</sup>	0.2	<0.2	<0.2
C15-C36	g/m <sup>3</sup>	0.3	<0.3	<0.3
C7-C36 (Total)	g/m <sup>3</sup>	0.5	<0.5	<0.5

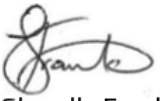
### Method Summary

#### Soluble Trace Elements

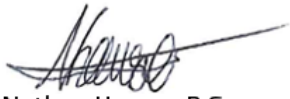
Samples were analysed as received by the laboratory using ICP-MS following a 0.45µm membrane filtration (except when field filtered). (In house procedure based on US EPA 200.8).

#### TPH in Water

Solvent extraction, silica cleanup, followed by GC-FID analysis (C7-C36). MFE Petroleum Industry Guidelines.



Sharelle Frank, B.Sc. (Tech)  
Technologist



Nathan Howse, B.Sc.  
Technologist

