

18 April 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 29/03/2019 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

Comments:

Attn: James Gallacher (James.Gallacher@eastland.nz)

New Bore: Static Water Level: 2.55m, Temperature: 18.1°C, DO: 4.23 mg/L						

Sample Date:	29/03/20	19 Time:	Bore GW02: 1120 New Bore: 1215	Sampler:	DW	DO Probe:	139		
Daily Sum	mary She	et							
Weather C	Conditions: _	Slightly raining.							
ī	Fidal Flow: _	Usual.							
Bore C	Conditions: _	Bores had water. N	New bore very muddy,	presumably fr	rom install.				
Surronds C	Conditions: _	Very mucky and m	uddy, particularly Bor	e GW02.					
Purgir	ng Results:	Straight into bottle	es for Bore GW02, poo	r recovery. 50l	L purge for n	ew bore before	sampling.		

Bore GW02: Static Water Level: 2.10m, Temperature: 20.1°C, DO: 3.58 mg/L



PO:



### **Analysis Report**

Customer:	Eastland Port	Date Received:	29/03/2019 1:00 PM
Address:	PO Box 1048	Date Completed:	8/04/2019 4:36 PM
	Gisborne, 4040		
Attention:	James Gallacher	Purchase Order #:	

Sample Type: Water

	Units	2019003231 Bore GW02	2019003232 New Monitoring Bore
		29/03/2019 11:20	29/03/2019 12:15
Test			
Analytica Laboratories Report		19-10423	19-10423
Conductivity @25°C	µS/cm	775	955
pH - Water		7.0	7.0
Salinity	ppt	0.3	0.4

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

Noted: Extra long pumping time on 'New Monitoring Bore' site to get muddy water off. This may be due to it being a new bore.

Test Standards:

Test	Methodology		
Analytica Laboratories Report			
Conductivity @25°C	APHA 23rd Ed 2510 B		
pH - Water	APHA 23rd 4500-H+ B		
Salinity	APHA 23rd Ed 2520 B		

Authorised By:

Tom Needham B.Sc Environmental Science and Marine Biology Masters of Marine Conservation Certified By:

Verdette Vedders Laboratory Technician KTP Chemistry and Microbiology

Medden.



Tests indicated as not accredited are outside the scope of the laboratory's 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: 2019040804445586

Date Issued: 8/04/2019

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## Certificate of Analysis

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

Submitted by:Dion WilliamsDate Received:30/03/2019Date Completed:4/04/2019Order Number:662Reference:662

19-10423

Lab Reference:

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.

#### Soluble Heavy Metals in Water

	Client Sample ID		2019003231	2019003232
	Date Sampled		29/03/2019	29/03/2019
Analyte	Unit	Reporting Limit	19-10423-1	19-10423-2
Arsenic	g/m <sup>3</sup>	0.0005	0.0006	0.0009
Beryllium	g/m <sup>3</sup>	0.00001	0.00001	<0.00001
Boron	g/m <sup>3</sup>	0.005	0.087	0.114
Cadmium	g/m <sup>3</sup>	0.00001	<0.00001	0.00004
Chromium	g/m <sup>3</sup>	0.0002	<0.0002	<0.0002
Copper	g/m <sup>3</sup>	0.0002	<0.0002	0.0013
Lead	g/m <sup>3</sup>	0.00005	<0.00005	<0.00005
Mercury	g/m <sup>3</sup>	0.0001	<0.0001	<0.0001
Nickel	g/m <sup>3</sup>	0.0002	0.0006	0.0019
Zinc	g/m <sup>3</sup>	0.001	0.0036	0.0014

#### **Total Petroleum Hydrocarbons - Water**

	Client	t Sample ID	2019003231	2019003232
	Da	te Sampled	29/03/2019	29/03/2019
Analyte	Unit	Reporting Limit	19-10423-1	19-10423-2
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



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation, with the exception of tests marked \*, which are not accredited.

### **Method Summary**

Soluble Trace Elements

**TPH in Water** 

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).

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

Sharelle Frank, B.Sc. (Tech) Technologist

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Tom Featonby, M.Sc. Technologist