

12 February 20

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 30/01/2020 as required by conditions 10 – 28 of consent DL-2018-108538-00.

All recorded parameters were below consent trigger limits.

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)

Sample Date: 30/01/2020

Sampler: Dion Williams

DO Probe: MER 139

Daily Summary Sheet

Weather Conditions: Overcast but warm

Tidal Flow: Incoming, flowing in normal direction (downstream).

	GW02	New Monitoring Bore
Bore Conditions:	Good	Good
Surrounds Conditions:	Good	Good
Purging Results:	Purged 4L day before, no immediate recovery. Sampled well, only 4L in bore.	Not a continuous purge, but recovery okay each time. Muddy water whole time so pumped for 1 hour to get clearish sample (approx. 40L)

Comments:

Analysis Report

Customer: Eastland Port	Date Received: 30/01/2020 10:00 AM
Address: 1 Kaiti Beach Road	Date Completed: 7/02/2020 12:17 PM
Gisborne, 4010	
Attention: Oliver Bone	Purchase Order #:

Sample Type: Water

	Units	2020000744 Bore GW02	2020000745 New Monitoring Bore
		30/01/2020 8:20	30/01/2020 9:48
Test			
Analytica Laboratories Report		20-03721	20-03721
Conductivity @25°C	µS/cm	991	921
Dissolved Oxygen Field Test*	g/m ³	1.24	0.74
pH - Water		7.1	7.1
Salinity	ppt	0.4	0.4
Static Water Level	m	2.42	2.86
Temperature on Site	°C	17.4	16.8

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

Test Standards:

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

Authorised By:

Yvonne Wruck
Dip. Biopharmacology
KTP Molecular Diagnostics

Certified By:

Tom Needham
Technician
KTP Chemistry and Microbiology



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: 2020020712171216

Date Issued: 7/02/2020

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 Laboratory Limited
 4 Banks Street
 Gisborne 4010
 Attention: Shanna Hickling
 Phone: 06 867 8512
 Email: shanna@linnaeus.co.nz

Lab Reference: 20-03721
 Submitted by: Linnaeus Laboratory Limited
 Date Received: 31/01/2020
 Date Completed: 5/02/2020
 Order Number: 1149
 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.

Elements in Water (Soluble)

Client Sample ID			2020000744 - Bore GW02	2020000745 - New Monitoring Bore
Date Sampled			30/01/2020	30/01/2020
Analyte	Unit	Reporting Limit	20-03721-1	20-03721-2
Copper	g/m ³	0.0002	0.00086	0.00033
Lead	g/m ³	0.00005	<0.000050	<0.000050
Zinc	g/m ³	0.001	0.013	<0.0010

Total Petroleum Hydrocarbons - Water

Client Sample ID			2020000744 - Bore GW02	2020000745 - New Monitoring Bore
Date Sampled			30/01/2020	30/01/2020
Analyte	Unit	Reporting Limit	20-03721-1	20-03721-2
C7-C9	g/m ³	0.2	<0.2	<0.2
C10-C14	g/m ³	0.2	<0.2	<0.2
C15-C36	g/m ³	0.3	<0.3	<0.3
C7-C36 (Total)	g/m ³	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. (In accordance with in-house procedure based on US EPA 8015).



Emily Hanna, B.Sc.

Trace Elements Team Leader



Rong Zhang

Technician

