

7 October 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 30/09/2019 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: 30/09/2019

Sampler: Dion Williams

DO Probe: MER 138

Daily Summary Sheet

Weather Conditions: Dry, overcast. No rain in last 48 hours.

Tidal Flow: Outgoing

	GW02	New Monitoring Bore
Bore Conditions:	Good, clean	Good, clean
Surrounds Conditions:	Long grass but dry	Maintained, dry grass
Purging Results:	Purged dry 30 minutes prior to sampling - 7L. Sampled straight into bottles.	Initially murky, turned clear, good recovery. 50L purged.

Comments: _____

Analysis Report

Customer: Eastland Port	Date Received: 30/09/2019 11:10 AM
Address: PO Box 402 053 Tutukaka, 0153	Date Completed: 4/10/2019 12:21 PM
Attention: Oliver Bone	Purchase Order #:

Sample Type: Water

	Units	2019008046 Bore GW02	2019008047 New Monitoring Bore
		30/09/2019 10:50	30/09/2019 10:30
Test			
Analytica Laboratories Report		19-33868	19-33868
Conductivity @25°C	µS/cm	980	1060
Dissolved Oxygen Field Test*	g/m ³	2.2	7.5
pH - Water		7.1	7.0
Salinity	ppt	0.4	0.5
Static Water Level	m	2.03	1.93
Temperature	°C	14.4	17.5

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



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: 19-33868
 Submitted by: Linnaeus Laboratory Limited
 Date Received: 1/10/2019
 Date Completed: 4/10/2019
 Order Number: 0948
 Reference: 0948

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			2019008046 Bore GW02	2019008047 New Monitoring Bore
Date Sampled			30/09/2019	30/09/2019
Analyte	Unit	Reporting Limit	19-33868-1	19-33868-2
Copper	g/m ³	0.0002	0.00069	0.00048
Lead	g/m ³	0.00005	<0.000050	<0.000050
Zinc	g/m ³	0.001	0.0033	<0.0010

Total Petroleum Hydrocarbons - Water

Client Sample ID			2019008046 Bore GW02	2019008047 New Monitoring Bore
Date Sampled			30/09/2019	30/09/2019
Analyte	Unit	Reporting Limit	19-33868-1	19-33868-2
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

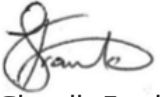
Method Summary

Soluble Trace Elements

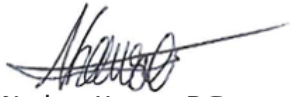
Samples were analysed as received by the laboratory using ICP-MS following a 0.45µm membrane filtration (except when field filtered). (In house procedure based on US EPA 200.8).

TPH in Water

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



Sharelle Frank, B.Sc. (Tech)
Technologist



Nathan Howse, B.Sc.
Technologist

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: 2019100412220050

Date Issued: 4/10/2019

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

