12 March 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 26/02/2020 as required by conditions 10 – 28 of consent DL-2018-108538-00.

All recorded parameters, except dissolved copper at bore GW02, were below consent trigger limits.

Kind Regards,

Christine Oakey
Senior Environmental Management Consultant
4Sight Consulting Ltd

Matawhero Log Yard (Eastland Port) - E004

Monthly Bore Monitoring

Attn: Christine Oakey (christineo@4sight.co.nz)

Sample Date: 26/02/2020 Sampler: Dion Williams DO Probe: MER 138

Daily Summary Sheet

Weather Conditions: Overcast but fine.

Tidal Flow: High tide.

	GW02	New Monitoring Bore
Bore Conditions:	Good	Good
Surrounds Conditions:	Good	Good
Purging Results:	Approximately 4L (2 days prior to sampling)	20L purged then a slow muddy recovery

Comments: Bore GW02 pumped dry 2 days prior to sampling because of slow recovery. Monitoring bore had a poor recovery and was muddy.

Analysis Report

Customer:	Eastland Port	Date Received:	26/02/2020 10:45 AM
Address:	1 Kaiti Beach Road Gisborne, 4010	Date Completed:	4/03/2020 11:01 AM
Attention:	Christine Oakey	Purchase Order #:	

Sample Type: Water

	Units	2020001415 Bore GW02	2020001416 New Monitoring Bore
		26/02/2020 9:20	26/02/2020 10:30
Test			
Analytica Laboratories Report		20-08377	20-08377
Conductivity @25°C	µS/cm	1060	1030
Dissolved Oxygen Field Test*	g/m³	1.2	0.76
pH - Water		7.1	7.1
Salinity	ppt	0.5	0.5
Static Water Level	m	2.63	3.20
Temperature	°C	17.6	18.0

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

Report ID: 2020030411020596

Date Issued: 4/03/2020

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

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	APHA 23rd ed 2550 B

Authorised By:

Libby Dalcom
Senior Technician
KTP Microbiology

Certified By:

Brenda Overend
Laboratory Technician
KTP Chemistry and Microbiology

IANZ ACCREDITED LABORATORY

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

Methods marked with a * are not IANZ accredited.

"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.

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www.linnaeus.co.nz

Analytica Laboratories Limited
Ruakura Research Centre
10 Bisley Road
Hamilton 3214, New Zealand
Ph +64 (07) 974 4740
sales@analytica.co.nz
www.analytica.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: 20-08377
Submitted by: Linnaeus Laboratory Limited
Date Received: 27/02/2020
Date Completed: 3/03/2020
Order Number: 1,229
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	2020001415 Bore GW02	2020001416 New Monitoring Bore
			Date Sampled	26/02/2020	26/02/2020
Analyte	Unit	*Reporting Limit*		20-08377-1	20-08377-2
Copper	g/m³	*0.0002*		0.0027	0.00069
Lead	g/m³	*0.00005*		<0.000050	0.00045
Zinc	g/m³	*0.001*		0.025	0.0031

Total Petroleum Hydrocarbons - Water

			Client Sample ID	2020001415 Bore GW02	2020001416 New Monitoring Bore
			Date Sampled	26/02/2020	26/02/2020
Analyte	Unit	*Reporting Limit*		20-08377-1	20-08377-2
C7-C9	g/m³	*0.2*		<0.2	<0.2
C10-C14	g/m³	*0.2*		<0.2	<0.2
C15-C36	g/m³	*0.3*		<0.3	<0.3
C7-C36 (Total)	g/m³	*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).

IANZ ACCREDITED LABORATORY

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.

Emily Hanna, B.Sc.
Trace Elements Team Leader

Rong Zhang
Technician