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Port

**Matawhero Logyard Annual Report**

For Eastland Port Limited

August 2021

## REPORT INFORMATION AND QUALITY CONTROL

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## 1 INTRODUCTION

Eastland Port Limited (hereafter, Eastland) hold resource consent issued by Gisborne District Council for the discharge of stormwater from the Matawhero Logyard to the Awapuni Drain (DW-2019-106195-01 and WI-2019-106213-01). The consents require an annual report to be submitted covering the matters identified in Condition 8 of the resource consent.

**Condition 8** of the resource consent states:

*'The Consent Holder shall keep a record of all monitoring analyses and inspections results undertaken in accordance with the conditions of this consent and shall submit these records to the Council annually and also immediately upon written request. The Consent Holder shall immediately notify the consent authority in writing of any non-compliance with any condition of this Consent and shall keep a record of this and the action(s) taken to address the matter of non-compliance. These records shall be submitted to the Council annually and also immediately upon written request.'*

*The consent holder shall produce a report annually by the 30 of June each year for the previous calendar year to the satisfaction of the Environmental Services Manager. The report shall include:*

- Annual volume of cargo entering and leaving the facility
- A description of any modifications to the operation of the site.
- Non compliances with consent conditions and action taken
- Complaints and action
- Monitoring inspections and outcome
- Water quality monitoring results and an interpretive summary of results and any recommendations.'

This report presents the 2021 Annual Report, for the period 1 April 2019 to 31 March 2020. It has been prepared by 4Sight Consulting Ltd (4Sight) to be submitted on behalf of Eastland Port.

## 2 ANNUAL VOLUME OF CARGO ENTERING AND LEAVING THE FACILITY

Over the 2020/21 year (01 April 2020 – 31 March 2021) the volume of cargo that entered the facility was 315,145 tonnes and the volume that left the facility was 312,277 tonnes.

## 3 DESCRIPTION OF MODIFICATIONS TO THE OPERATION OF THE SITE

There have been no modifications to the operation of the site over the 2020/21 year, excluding the consented development of cell 3 which was completed in July 2020.

## 4 NON-COMPLIANCES WITH CONSENT CONDITIONS AND ACTION TAKEN

A summary of non-compliance with consent conditions and actions taken over the 2020/21 year are presented in Table 1 below.

Table 1: Non-compliance and actions taken over the 2020/21 year

Date	Non-compliance	Action taken
26/06/2020	Surface water sampling - total suspended solids, BOD <sub>5</sub> , total nitrogen, dissolved reactive phosphorus, total resin acids, and dissolved copper exceeded the consent trigger limits.	Site inspection undertaken on 17 July 2020. GDC were notified of the exceedence on 10 August 2020.

## 5 COMPLAINTS AND ACTION

One complaint was recorded over the 2020/21 year. A dust complaint was lodged by a Council officer on 23 December 2020. A site visit was undertaken shortly after receiving the complaint, which confirmed that there was a visible discharge of dust beyond the site boundary. The complaint details were then forwarded onto the Log Yard Manager at 11.20 am. The Log yard Manager advised they were short of resources on that day given the proximity to Christmas but gave an undertaking to use the watercart at the earliest opportunity to dampen the dry surfaces. This was considered acceptable given that there were no sensitive activities occurring on adjacent sites. The details of the response were then conveyed back to the Council officer who lodged the complaint.

## 6 MONITORING INSPECTIONS AND OUTCOME

A summary of the monitoring inspections and outcomes over the 2020/21 year are presented in Table 2 below.

Table 2: Monitoring inspections and outcomes over the 2020/21 year

Date	Inspection notes	Outcome
26/06/2020	2020 Quarter 2 water quality monitoring	Water quality sampling completed
17/11/2020	Stormwater pond inspection	No outcome
Monthly	Swale drains inspections	Cleared at least monthly

## 7 WATER QUALITY MONITORING RESULTS

A summary of the surface water monitoring results (Table 3) and groundwater results (Table 4) for the 2020/21 year are presented below. Sampling was not undertaken in Quarter 3 2020, Quarter 4 2020, or Quarter 1 2021. Advice from the contractors who undertake this sampling work is that there were not suitable opportunities for samples to be collected during discharge periods which are most often of very short duration. 4Sight have followed this up with the contractors and a more finely tuned monitoring of rainfall events and short period discharges from the site has been implemented to facilitate more opportunities for sampling.

Table 3: Summary of surface water monitoring results for the 2020/21 year. Consent trigger limit exceedances at Site 2 and 3 are highlighted purple.

Parameter	Units	Consent trigger limits (10m below confluence)	Quarter 2 2020		
			26 June 2020		
			Stormwater retention ponds outlet (MLYSW Site 1)	Awapuni Drain 10m downstream (MLYSW Site 2)	Awapuni Drain 10m upstream (MLYSW Site 3)
pH	-LOG(H <sup>+</sup> )	6.5 – 8.5	7.1	7.3	7.7
Temperature	Celsius	Changed by more than 3°C	13.4	13.5	13.6
Total Suspended Solids	g/m <sup>3</sup>	100 g/m <sup>3</sup> above background site	220	310	21
Volatile Suspended Solids	g/m <sup>3</sup>	No limit	52	83	6
BOD <sub>5</sub>	g/m <sup>3</sup>	20	62	30	3
Total Petroleum Hydrocarbons	g/m <sup>3</sup>	15	<0.7	<0.7	<0.7
Total Tannins	g/m <sup>3</sup>	Indicator test only	17.4	6.8	1.6
Total Nitrogen	g/m <sup>3</sup>	0.4	5.6	0.94	2.0
Soluble Inorganic Nitrogen	g/m <sup>3</sup>	0.4	<0.011	<0.011	0.77

Parameter	Units	Consent trigger limits (10m below confluence)	Quarter 2 2020		
			26 June 2020		
			Stormwater retention ponds outlet (MLYSW Site 1)	Awapuni Drain 10m downstream (MLYSW Site 2)	Awapuni Drain 10m upstream (MLYSW Site 3)
Dissolved Reactive Phosphorus	g/m <sup>3</sup>	0.1	0.029	0.21	0.76
Total Phenols	g/m <sup>3</sup>	0.72	0.03	0.02	<0.02
Dissolved Oxygen	g/m <sup>3</sup>	Not less than 4	1.81	4.49	8.60
Conductivity	µmhos/cm	Indicator test only	672	1590	2730
Total Resin Acids	g/m <sup>3</sup>	0.06	1.7439	0.2489	<0.0001
Light Absorbance	AU cm <sup>-1</sup>	Indicator test only	0.048	0.042	0.037
Dissolved Copper	g/m <sup>3</sup>	0.0025	0.004	0.0036	0.0022
Dissolved Lead	g/m <sup>3</sup>	0.0094	0.0042	0.0029	<0.0001
Dissolved Zinc	g/m <sup>3</sup>	0.031	0.021	0.0159	<0.002

Table 4: Summary of groundwater monitoring results for the 2020/2021 year

Parameter	Units	Consent trigger limits (at sump tile drainage outlet)	Limit from background samples at the sump tile drainage outlet	Quarter 2 2020		
				26 June 2020		
				MLY GW 01	MLY GW 02	Sump Tile Drainage
Groundwater level	m	No limit	No limit	1.17	0.89	n/a
pH	-LOG(H <sup>+</sup> )	6.5 – 8.5	6.5 - 8.5	7.1	6.9	7.5
Conductivity	µmho/cm	0.3 above background	866.3	918	923	593
Total Petroleum Hydrocarbons	g/m <sup>3</sup>	15	15	<0.7	<0.7	<0.7
Total Resin Acids	g/m <sup>3</sup>	0.06 above background	n/a	n.s	n.s	0.0958
Total Nitrogen	g/m <sup>3</sup>	0.6 above background	1.49	0.36	0.20	1.16

## 7.1 Summary of water quality results and recommendations

### 7.1.1 Surface Water

The results of the quarterly water quality monitoring completed on 26 June showed that total suspended solids, BOD<sub>5</sub>, total nitrogen, dissolved reactive phosphorus, total resin acids, and dissolved copper exceeded the consent trigger limits at the downstream compliance point. However total nitrogen and dissolved reactive phosphorus also exceeded the consent trigger limits at the upstream site.

In accordance with Condition 25 the site was inspected to identify possible causes of non-compliance after receiving results from Hill Laboratories on 08 July 2020. This inspection was undertaken on 17 July 2020 and no issues were identified. Gisborne District Council were notified of the exceedences via email on 10 August 2020 after receiving the trace resin acid analysis results from Scion on 03 August 2020.

### 7.1.2 Groundwater

The results of the quarterly groundwater monitoring completed on 26 June 2020 showed that there were no exceedences of the consent trigger limits at the sump tile drainage outlet (compliant point). Total resin acids were not sampled by the sampling contractor as they did not have enough sampling bottles. This has been discussed with them to ensure they have the correct bottles available for sampling.

## 8 CONCLUSION

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The site is being managed to an appropriate standard. The surface water sediment interception system is performing to design expectations. The Awapuni Drain is a highly modified receiving environment of low ecological value and sensitivity. The water quality in the Drain is complex in terms of tidal influences and is likely governed by a range of other influences not related to, or exacerbated by, the operations on or stormwater discharges from the site.

