Mangati Catchment

Joint Monitoring Programme
Annual Report
2021-2022

Technical Report 2022-14





Taranaki Regional Council Private Bag 713 Stratford

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Executive summary

This report is the Annual Report for the period July 2021 to June 2022 by the Taranaki Regional Council (the Council) describing the monitoring programme associated with 13 industries within the catchment of the Mangati Stream, Bell Block.

Overall, a high level of environmental performance was achieved by the consent holders in the industrial area of the Mangati Stream catchment.

The Mangati catchment has, in the past, been heavily utilised for the disposal of stormwater and wastewaters from a large number of industrial sites. As a consequence of inadequate treatment and management of discharges and minimal dilution capacity in the past, the water quality and aquatic ecosystems of the stream were significantly impacted. The Mangati Stream catchment is listed in the Regional Freshwater Plan for Taranaki (Appendix III) as having been identified for enhancement of natural, ecological and amenity values, and life supporting capacity. The Council has addressed this by requiring consents for discharges from every industrial site within the catchment that has significant potential for contamination. A combined monitoring programme has been implemented by Council to monitor these discharges, and since the 2002-2003 year a holistic approach has been applied to the monitoring of abstractions and discharges to all media.

During the 2021-2022 monitoring period a total of 16 water discharge consents, four air discharge consents and one discharge to land consents were held by industries in this catchment. This report covers the results and findings during this monitoring period for these 21 consents, which contain a total of 221 special conditions that the consent holders must satisfy. It represents the 25th report produced by Council to cover water discharges by industries within the catchment and their effects, and is the 15th combined report to cover abstractions and discharges to all media.

Monitoring during the year under review included 50 site inspections, discussions with site operators over site management, 27 discharge samples, six receiving water samples, 16 macroinvertebrate samples, two deposition gauging surveys, and several odour surveys.

Historically, chemical and biological monitoring results for the Mangati catchment have shown there to be a two-stage reduction in water quality, one below the main stormwater outlet from Tegel Foods poultry processing plant, the other below the industrial drain which joins the stream at the main highway.

Receiving water monitoring results for the year were generally in line with historical ranges. However, as occasionally noted in recent years, the results at the top of the catchment for some parameters (suspended solids, turbidity, biological oxygen demand and dissolved reactive phosphorus) were elevated when compared to sites sampled within and below the industrial area.

During the period under review, the instream dissolved zinc and copper concentrations met the appropriate USEPA acute or chronic exposure guidelines in all six samples. None of the instream samples taken during the period under review exceeded the 0.025 g/m^3 Regional Freshwater Plan unionised ammonia guideline, or the 0.9 g/m^3 total ammonia national guideline.

Overall, the results of the survey indicated that macroinvertebrate health was generally 'poor' for the surveyed sites in the Mangati Stream. However, macroinvertebrate health was similar among the surveyed sites and in particular between the 'control' and 'impact' sites and there was not sufficient evidence to indicate that there had been any recent preceding poor water quality that had a significant effect on macroinvertebrate communities in the Mangati.

There were no non-compliances recorded in the Mangati catchment during the period under review which related to the consented companies monitored under this catchment programme.

During the year, Barton Holdings Limited demonstrated a **good** level of environmental and administrative performance and compliance with their resource consent defined in Appendix II.

During the year, First Gas Ltd demonstrated a **high** level of environmental and administrative performance with their resource consent.

During the year, Greymouth Petroleum Acquisition Company Limited demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

During the year, J Swap's level of environmental and administrative performance were both **high** as defined in Appendix II.

During the year, McKechnie Aluminium Solutions Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent

During the year, NPDC demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent.

During the year, Nexans New Zealand Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consents.

During the year, OMV New Zealand Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent.

During the year, Schlumberger demonstrated a **high** level of environmental and administrative performance and compliance with their resource consents.

During the year, Tasman Oil Tools Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent.

During the year, Tegel Foods Ltd (Feed Mill) demonstrated a **high** level of environmental performance and compliance with their resource consent. The Company demonstrated a **high** level of administrative performance as defined in Appendix II.

During the year, Tegel Foods Ltd (Poultry Processing) demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

During the year, TIL Freighting Ltd demonstrated a **high** level of environmental performance and compliance with their resource consent. The Company demonstrated a **good** level of administrative performance as defined in Appendix II.

During the year under review, W Abraham Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent.

For reference, in the 2021-2022 year, consent holders were found to achieve a high level of environmental performance and compliance for 88% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 10% of the consents, a good level of environmental performance and compliance was achieved.

In terms of overall environmental and compliance performance by the consent holders over the last several years, this report shows that overall the consent holders' performance remained at a high level in the year under review.

This report includes recommendations for the 2022-2023 year, including a recommendation relating to an optional review of consents 2335-4 and 3470-4-1 in June 2023.

Table of contents

				Page
1		Introduction	on	1
	1.1	Complia	ance monitoring programme reports and the Resource Management Act 1991	1
		1.1.1	Introduction	1
		1.1.2	Structure of this report	3
		1.1.3	The Resource Management Act 1991 and monitoring	4
		1.1.4	Evaluation of environmental and administrative performance	4
	1.2	Resourc	e consents	5
	1.3	Monitor	ing programme	9
		1.3.1	Introduction	9
		1.3.2	Programme liaison and management	9
		1.3.3	Site inspections	9
		1.3.4	Discharge sampling	9
		1.3.5	Receiving water sampling	9
		1.3.6	Air monitoring	9
		1.3.7	Macroinvertebrate surveys	10
		1.3.8	Fish survey	10
		1.3.9	Data review	10
		1.3.10	Hydrological and environmental telemetry	10
2		Barton Ho	oldings Ltd	11
	2.1	Site des	cription	11
	2.2	Results		11
		2.2.1	Inspections	11
		2.2.2	Results of discharge monitoring	13
	2.3	Evaluation	on of performance	13
3		First Gas L	.td	15
	3.1	Site des	cription	15
	3.2	Results		16
		3.2.1	Inspections	16
	3.3	Evaluation	on of performance	17
4		Greymout	h Petroleum Acquisitions Company Ltd	18
	4.1	Site des	cription	18
	4.2	Results		20

		4.2.1	Inspection	ns		20			
		4.2.2	Results of	f discharge mo	onitoring	20			
	4.3	Evaluati	on of perfo	rmance		21			
5		J Swap Co	ontractors Lt	actors Ltd					
	5.1	Site des	cription	tion					
	5.2	Results				23			
		5.2.1	Inspection	ns		23			
		5.2.2	Results of	f discharge mo	onitoring	24			
	5.3	Evaluati	on of perfo	rmance		25			
6		McKechni	ie Aluminiun	n Solutions Ltd	b	27			
	6.1	Site des	cription			27			
	6.2	Results				29			
		6.2.1	Inspection	ns		29			
		6.2.2	Results of	f discharge mo	onitoring	29			
	6.3	Evaluati	on of perfo	rmance		31			
7		New Plym	outh Distric	t Council		32			
	7.1	Site des	cription			32			
	7.2	Results				34			
		7.2.1	Inspection	ns		34			
		7.2.2	Results of	f stormwater c	discharge monitoring	34			
			7.2.2.1	De Havillar	nd Drive West	35			
			7.2.2.2	Connett Ro	oad West	35			
				7.2.2.2.1	Connett Road discharges to NPDC wetlands system	35			
				7.2.2.2.2	Connett Road West stormwater	36			
			7.2.2.3	NPDC indu	istrial drain	36			
			7.2.2.4	NPDC wetl	ands discharges to Mangati Stream	37			
	7.3	Evaluati	on of perfo	rmance		39			
8		Nexans N	ew Zealand	Ltd		40			
	8.1	Site des	cription			4(
	8.2	Results				4			
		8.2.1	Inspection	ns		4			
		8.2.2	Results of	f discharge mo	onitoring	4			
	8.3	Evaluati	on of perfo	rmance		42			
9		OMV Nev	v Zealand Lt	d		44			
	9.1	Site des	cription			44			

	9.2	Results			45
		9.2.1	Inspection	ns	45
		9.2.2	Results of	receiving environment monitoring	45
	9.3	Evaluati	on of perfor	rmance	46
10		Schlumbe	rger New Ze	ealand Ltd	47
	10.1	Site des	cription		47
	10.2	Results			48
		10.2.1	Inspection	ns	48
		10.2.2	Results of	f discharge monitoring	49
	10.3	Evaluati	on of perfor	rmance	50
11			il Tools Ltd		52
	11.1	Site des	cription		52
	11.2	Results			53
		11.2.1	Inspection	ns	53
		11.2.2	Results of	f discharge monitoring	54
	11.3	Evaluati	on of perfor	rmance	54
12		Tegel Foo	ds Ltd – Fee	d Mill	56
	12.1	Site des	cription		56
	12.2	Results			56
		12.2.1	Inspection	าร	56
		12.2.2	Results of	f discharge monitoring	57
		12.2.3	Air inspec	ctions	57
		12.2.4	Depositio	n gauging	58
	12.3	Evaluati	on of perfor	rmance	59
13		Tegel Foo	ds Ltd – Pou	ultry Processing Plant	61
	13.1	Site des	cription		61
	13.2	Results			62
		13.2.1	Inspection	ns	62
		13.2.2	Results of	freceiving environment monitoring	63
			13.2.2.1	De Havilland Drive stormwater discharges	63
			13.2.2.2	Tegel wetland discharges to Mangati Stream	63
	13.3	Evaluati	on of perfor	rmance	64
14		TIL Freigh	ting Ltd (op	erating as MOVe Freight Ltd)	68
	14.1	Site des	cription		68
	14.2	Results			69

		14.2.1	Inspection	ns	69
		14.2.2	Results of	receiving environment monitoring	71
	14.3	Evaluatio	on of perfor	mance	71
15		W Abraha	m Ltd		74
	15.1	Site des	cription		74
	15.2	Results			74
		15.2.1	Inspection	ns	74
	15.3	Evaluation	on of perfor	rmance	75
16		Mangati S	tream		77
	16.1	Water q	uality monit	toring	77
	16.2	Biologic	al monitorir	ng	80
		16.2.1	Macroinv	ertebrate surveys	80
			16.2.1.1	November 2021 survey	81
			16.2.1.2	March 2022 survey	82
17		Discussion	1		84
	17.1	Discussion	on of site p	erformance	84
	17.2	Environr	mental effec	ts of exercise of consents	84
	17.3	Evaluation	on of perfor	mance	84
	17.4			from the 2020-2021 Annual Report	84
	17.5			toring programme for 2022-2023	85
	17.6	Exercise	of optional	review of consent	86
18		Summary	of recomme	endations	87
Gloss	sary of o	common ter	ms and abb	reviations	88
Biblio	ography	and referer	nces		91
Арре	endix I	Resource co	nsents held	by industries in the Mangati catchment (alphabetical order)	
Арре	endix II	Categories	used to eva	luate environmental and administrative performance	
				List of tables	
Table	e 1	Resource	consents in	the Mangati Catchment	6
Table	e 2	Barton sto	ormwater sa	mpling results, site STW001138	13
Table	e 3			ance for Barton consent 7707-1	13
Table	e 4	-	-	ance for First Gas consent 4780-2	17
Table				ance for GPL consent 4664-3	21
Table		-	-	rer sampling results, site STW001151	2/

T-1-1- 7	LC CTM002000	2.4
Table 7	J Swap wetland stormwater sampling results, site STW002089	24
Table 8	Summary of performance for J Swap consent 10085-1	25
Table 9	MCK Paraite Road stormwater sampling results, site STW001014	30
Table 10	MCK onsite stormwater sampling results, site STW001028	30
Table 11	Summary of performance of MCK consent 3139-3	31
Table 12	NPDC de Havilland Drive West stormwater sampling results, site STW001054	35
Table 13	NPDC pond 1 influent stormwater sampling results, site STW001055	35
Table 14	NPDC industrial drain to Mangati Stream, site MGT000503	37
Table 15	NPDC wetland pond 3 discharge to Mangati Stream, site STW002056	37
Table 16	NPDC pond 4 overflow discharge to Mangati Stream, site STW002055	38
Table 17	Summary of performance for NPDC consent 4302-2	39
Table 18	Summary of performance for Nexans consent 4497-3	42
Table 19	Summary of performance for Nexans consent 5417-2	42
Table 20	OMV stormwater sampling results, site IND002013	45
Table 21	Summary of performance for OMV consent 3913-2	46
Table 22	Schlumberger stormwater sampling results, site STW001056	49
Table 23	Schlumberger mudplant stormwater sampling results, site STW002071	49
Table 24	Summary of performance for Schlumberger consent 5987-1	50
Table 25	Summary of performance for Schlumberger consent 6032-1	51
Table 26	Summary of performance for Tasman Tools consent 4812-2	54
Table 27	Tegel Feed Mill stormwater sampling results, site STW001015	57
Table 28	Air deposition results for Tegel feed mill, 9 December 2021	58
Table 29	Summary of performance for Tegel consent 2335-4	59
Table 30	Summary of performance for Tegel's consent 4038-6	60
Table 31	Tegel de Havilland Drive Pipe B stormwater sampling results, STW001130	63
Table 32	Tegel stormwater and wetland sampling results, 21 March 2022	63
Table 33	Summary of performance for Tegel consent 3470-4	64
Table 34	Summary of performance for Tegel consent 7389-1	65
Table 35	Summary of performance for Tegel consent 4026-3	66
Table 36	Summary of performance for Tegel consent 5494-2	67
Table 37	TIL stormwater sampling results	71
Table 38	Summary of performance for TIL consent 7578-1	71
Table 39	Summary of performance for TIL consent 6952-1	72
Table 40	Summary of performance for Abraham consent 7147-2	75
Table 41	Mangati Stream sampling sites	77

Table 42	Sampling sites in associated tributaries of the Mangati Stream	77
Table 43	Mangati Stream wet weather sampling results, March 2022	78
Table 44	Dissolved copper concentrations in the Mangati Stream	79
Table 45	Dissolved zinc concentrations in the Mangati Stream	80
Table 46	Biomonitoring sites in the Mangati Stream catchment	80
	List of figures	
Figure 1	Mangati Catchment	3
Figure 2	Location of consent holders, discharge sites, and surface water monitoring sites	8
Figure 3	NPDC stormwater reticulation system and sampling points	33
Figure 4	Location of Tegel feed mill's deposition gauges	58
Figure 5	Macroinvertebrate sampling sites in the Mangati Stream	81
Figure 6	Taxa number, MCI scores and SQMCI scores for each site, 8 November 2021	82
Figure 7	Taxa number, MCI scores and SQMCI scores for each site, 10 March 2022	83
	List of photos	
Photo 1	Mangati Reserve at Parklands Avenue	2
Photo 2	Mangati Stream at the Coast	2
Photo 3	Product in the new storage shed, November 2021	11
Photo 4	Drain sock in place, May 2022	12
Photo 5	View of stormwater catchment at First Gas site	15
Photo 6	Decommissioned wash bay, August 2020	16
Photo 7	Storage areas and bunding on GPL site, September 2020	18
Photo 8	New sediment retention pond, September 2020	19
Photo 9	Gravel filter bed installed on GPL pond discharge outlet, September 2020	19
Photo 10	View of PK stockpiled inside storage shed, July 2020	22
Photo 11	Truck wash, November 2021	23
Photo 12	Scrap sorting yard at MCK site, May 2020	27
Photo 13	Hazardous chemical storage and bunding, July 2020	28
Photo 14	NPDC stormwater pond 2, September 2021	34
Photo 15	Secure storage at Nexans site, May 2021	40
Photo 16	Bunded chemical storage, May 2022	44
Photo 17	Schlumberger yard and lay dawn area, October 2019	47
Photo 18	View of wash bay, October 2019	48

Photo 19	Sediment controls on Tasman Tools' perimeter drain, September 2020	52
Photo 20	View inside the freight loading tunnel, May 2022	69
Photo 21	Spill kits	70

1 Introduction

1.1 Compliance monitoring programme reports and the Resource Management Act 1991

1.1.1 Introduction

This report is for the period July 2021 to June 2022 by the Taranaki Regional Council (the Council) on the monitoring programme associated with 21 resource consents held by 13 consent holders in the Mangati Catchment.

This report includes the results and findings of the monitoring programme implemented by the Council in respect of these consents, which relate to discharges to water and emissions to air within the Mangati catchment.

One of the intents of the *Resource Management Act 1991* (RMA) is that environmental management should be integrated across all media, so that a consent holder's use of water, air, and land should be considered from a single comprehensive environmental perspective. Accordingly, the Council generally implements integrated environmental monitoring programmes and reports the results of the programmes jointly. This report discusses the environmental effects of the use of water, land and air by these consent holders, and is the 25th combined annual report by the Council for this catchment.

The Mangati Stream has a narrow catchment that runs from south to north in the lowland between the Waiwhakaiho and Waiongana River systems. The total catchment area is approximately 6.1 km². The length of the catchment, from the headwaters between Paraite and Corbett Roads to the sea at Bell Block beach, is approximately five kilometres.

The industrial area at Bell Block is situated mid-catchment (Figure 1). Historically, the industrial areas were located predominantly on the western side of the stream however ongoing development since 2016 has resulted in more sites on the eastern side. These sites fall under permitted activity rules and are not covered by this monitoring report. Upstream, land use is pastoral and horticultural. Downstream, the Mangati flows through the residential area of Bell Block. The Mangati Reserve (Photo 1), with its popular well maintained walkway, borders the stream immediately below the industrial area. The beach at the mouth of the stream is also a popular recreational area (Photo 2).

The Mangati Stream has been the subject of numerous pollution incidents in past years, the large majority of which have related to water discharges from the industrial area.

The Council's response to the continued pollution of the Mangati Stream has been to require licensing of discharges of wastewater or stormwater from sites where there is the potential for contamination to occur. Thus, the Mangati Stream Catchment Monitoring Programme was implemented to ensure compliance with these consents and to determine the effects of the discharges on the water quality and biota of the stream.

2



Photo 1 Mangati Reserve at Parklands Avenue



Photo 2 Mangati Stream at the Coast

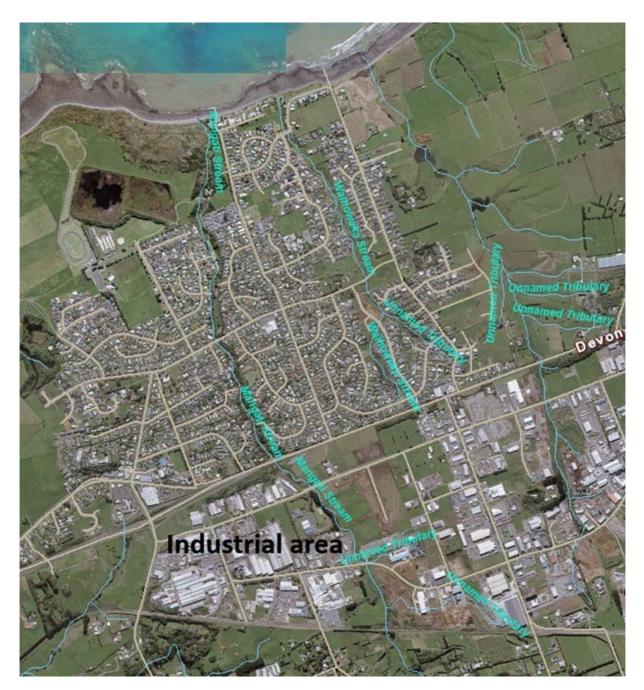


Figure 1 Mangati Catchment

1.1.2 Structure of this report

Section 1 of this report is a background section. It sets out general information about:

- consent compliance monitoring under the RMA and the Council's obligations;
- the Council's approach to monitoring sites though annual programmes;
- · the resource consents held by the companies in the Mangati catchment;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted in the catchment.

Sections 2-15 separately detail each company's onsite activities and performance.

In each **subsection 1** (e.g. section 2.1) there is a general description of the industrial activity and associated discharges, a photograph or map showing the location of the activity, and an outline of the matters covered by the company's permit/s.

Subsections 2 and 3 present the monitoring results of the company's activities during the period under review, including scientific and technical data, and any information on the Council's Register of Incidents.

Section 16 discusses the results of the monitoring of the Mangati Stream, their interpretation and their significance.

Section 17 discusses the general site performance of the consent holders within the catchment, their interpretation, and their significance for the environment in the immediate vicinity of the sites under discussion.

Section 18 presents recommendations to be implemented in the 2022-2023 monitoring year.

A glossary of common abbreviations and scientific terms, and a bibliography, are presented at the end of the report.

1.1.3 The Resource Management Act 1991 and monitoring

The RMA primarily addresses environmental 'effects' which are defined as positive or adverse, temporary or permanent, past, present or future, or cumulative. Effects may arise in relation to:

- a. the neighbourhood or the wider community around an activity, and may include cultural and socialeconomic effects;
- b. physical effects on the locality, including landscape, amenity and visual effects;
- c. ecosystems, including effects on plants, animals, or habitats, whether aquatic or terrestrial;
- d. natural and physical resources having special significance (for example recreational, cultural, or aesthetic); and
- e. risks to the neighbourhood or environment.

In drafting and reviewing conditions on discharge permits, and in implementing monitoring programmes, the Council is recognising the comprehensive meaning of 'effects' in as much as is appropriate for each activity. Monitoring programmes are not only based on existing permit conditions, but also on the obligations of the RMA to assess the effects of the exercise of consents. In accordance with Section 35 of the RMA, the Council undertakes compliance monitoring for consents and rules in regional plans, and maintains an overview of the performance of resource users and consent holders. Compliance monitoring, including both activity and impact monitoring, enables the Council to continually re-evaluate its approach and that of consent holders to resource management and, ultimately, through the refinement of methods and considered responsible resource utilisation, to move closer to achieving sustainable development of the region's resources.

1.1.4 Evaluation of environmental and administrative performance

Besides discussing the various details of the performance and extent of compliance by the consent holders, this report also assigns a rating as to each Company's environmental and administrative performance during the period under review. The rating categories are high, good, improvement required and poor for both environmental and administrative performance. The interpretations for these ratings are found in Appendix II.

For reference, in the 2021-2022 year, consent holders were found to achieve a high level of environmental performance and compliance for 88% of the consents monitored through the Taranaki tailored monitoring

programmes, while for another 10% of the consents, a good level of environmental performance and compliance was achieved.¹

1.2 Resource consents

The resource consents covered by the Mangati Catchment Joint Monitoring Programme are shown in Table 1 and their locations are shown in Figure 2. A total of 21 consents were included in the monitoring programme during the 2021-2022 monitoring period. Of these, 16 licence discharges to water, one licences a discharge to land, and four licence discharges to air. These consents include a total of 226 special conditions. There are a small number of other consented discharges in the catchment, such as agricultural discharges, which are not covered directly by this monitoring programme.

Outlines of the companies' activities and the special conditions on their consents are presented in Sections 2- 15 of this report, and copies of the full consents are given in numerical order in Appendix I.

Most stormwater discharge consents have the most recent standardised special conditions that;

- require the consent holder to adopt best practice;
- limit the area from which stormwater can be discharged;
- require the use of a stormwater treatment system;
- limit constituents of the discharge, with specific regard to pH, suspended solids and oil and grease;
- require that the discharge does not cause certain effects in the receiving waters;
- require that the consent holder maintain a spill contingency plan;
- require that the consent holder maintain and adhere to a management plan;
- require the consent holder to notify Council prior to making any changes to the site or site processes;
- set a lapse date (where applicable); and
- set dates for optional review.

¹ The Council has used these compliance grading criteria for more than 18 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

Table 1 Resource consents in the Mangati Catchment

Consent holder	Resource consent	Purpose	Granted	Next review date	Expiry date
		Water discharge permits			
Barton Holdings Ltd	7707-1	To discharge stormwater into the Mangati Stream	31 May 2011	-	1 June 2026
First Gas Ltd	4780-2	To discharge stormwater and vehicle wash water to the Mangati Stream	17 Dec 2015	June 2026	1 June 2032
Greymouth Petroleum Acquisitions Company Ltd	4664-3	To discharge treated stormwater from a pipe yard used for the cleaning and storage of casing and drilling equipment, and the storage of hazardous substances, onto and into land in circumstances where it may enter the Mangati Stream	6 Aug 2020	-	1 June 2026
J Swap Contractors Ltd	10085-1	To discharge stormwater from a transport depot into an unnamed tributary of the Mangati Stream	7 Oct 2015	June 2026	1 June 2032
McKechnie Aluminium Solutions Ltd	3139-3	To discharge stormwater (including cooling water) from an industrial site into an unnamed tributary of the Mangati Stream	2 Nov 2007	-	1 June 2026
New Plymouth District Council	4302-2	To discharge up to 5,200 L/s of stormwater from industrial sealed areas and roofs through piped stormwater systems into the Mangati Stream	11 Sept 2002	-	1 June 2020*
Nexans New Zealand Ltd	4497-3	To discharge stormwater and cooling water from an electric wire and cable manufacturing site into the Mangati Stream	25 June 2008	-	1 June 2026
OMV New Zealand Ltd	3913-3	To discharge stormwater from an industrial site into an unnamed tributary of the Mangati Stream	6 Aug 2020	June 2026	1 June 2032
Schlumberger New Zealand	5987-1	To discharge treated stormwater from a synthetic liquid mud plant and storage site into the Mangati Stream	8 June 2010	-	1 June 2020^
Ltd	6032-1	To discharge treated wash water and stormwater from a storage and maintenance premises for oil field exploration equipment into the Mangati Stream	27 Aug 2008	-	1 June 2020*
Tasman Oil Tools Ltd	4812-2	To discharge up to 112 L/s of stormwater including washdown water from a storage and maintenance yard for oil field drilling equipment into an unnamed tributary of the Mangati Stream	05 Aug 2014	-	1 June 2020*

Consent holder	Resource consent	Purpose	Granted	Next review date	Expiry date
Tegel Foods Ltd (Feedmill)	2335-4	To discharge stormwater from a stock/poultry feed manufacturing site to the NPDC stormwater drainage network	12 Feb 2014	June 2023	1 June 2026
Tegel Foods Ltd (Poultry	3470-4	To discharge stormwater from a poultry processing plant site to the New Plymouth District Council drainage network	23 Dec 2013	June 2023	1 June 2026
Plant)	7389-1	To discharge stormwater from a poultry processing plant via a wetland into the Mangati Stream	6 Aug 2020	-	1 June 2026
TIL Freighting Ltd (Move	6952-1	To discharge stormwater from a truck depot into and onto land in the vicinity of the Mangaone Stream in the Waiwhakaiho catchment	20 Sept 2006	-	1 June 2020*
Freight) 7578-1		To discharge stormwater from a truck depot into the Mangati Stream	20 Apr 2010	-	1 June 2026
		Air discharge permit			
Nexans New Zealand Ltd	5417-2	To discharge emissions into the air from an electric wire and cable manufacturing plant and associated activities	24 Feb 2015	June 2026	1 June 2032
Tegel Foods Ltd (Feedmill)	4038-6	To discharge emissions into the air from the milling and blending of grain and/or animal meals together with associated activities	23 Nov 2001	-	1 June 2020*
Tegel Foods Ltd (Poultry Plant)	4026-3	To discharge emissions into the air from the processing of animal matter and associated processes	16 June 2014	June 2026	1 June 2032
W Abraham Ltd	7147-2	To discharge emissions into the air from the operation of a crematorium including a natural gas-fired cremator	11 May 2015	June 2026	1 June 2032
	Discharges of waste to land				
Tegel Foods Ltd (Poultry Plant)	5494-2	To discharge poultry processing wastes by burial into land in the vicinity of the Mangati Stream in emergency circumstances only	24 Oct 2014	June 2026	1 June 2032

^{*} consent renewal underway ^ consent 5987-1 to be combined with 6032-1 renewal

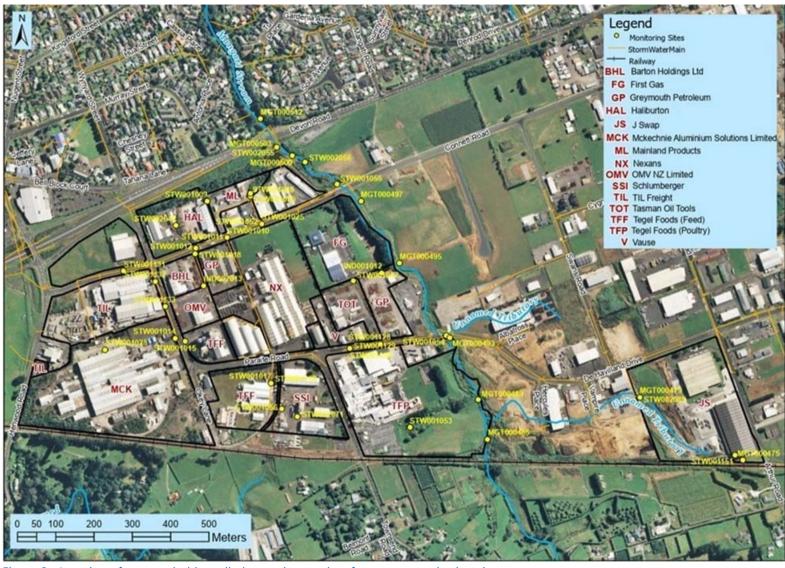


Figure 2 Location of consent holders, discharge sites, and surface water monitoring sites

1.3 Monitoring programme

1.3.1 Introduction

Section 35 of the RMA sets obligations upon the Council to gather information, monitor and conduct research on the exercise of resource consents within the Taranaki region. The Council is also required to assess the effects arising from the exercising of these consents and report upon them.

The Council may therefore make and record measurements of physical and chemical parameters, take samples for analysis, carry out surveys and inspections, conduct investigations and seek information from consent holders.

The monitoring programme for the industries in the Mangati catchment consisted of nine primary components.

1.3.2 Programme liaison and management

There is generally a significant investment of time and resources by the Council in:

- ongoing liaison with resource consent holders over consent conditions and their interpretation and application;
- discussion over monitoring requirements;
- preparation for any consent reviews, renewals or new consent applications;
- · advice on the Council's environmental management strategies and content of regional plans; and
- consultation on associated matters.

1.3.3 Site inspections

Council officers undertook 50 routine site inspections of the consent holders' sites. With regard to consents for discharges to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. During inspections at sites with air discharge consents, ambient monitoring of suspended particulate and other emissions were undertaken as appropriate.

1.3.4 Discharge sampling

The Council took 27 stormwater samples either via integrated catchment sampling runs or individually during wet weather inspections. Each sample was analysed for the expected contaminants and other physical characteristics of the discharges from each site.

1.3.5 Receiving water sampling

The Council took six receiving water samples during one integrated wet weather survey. Each sampling site (Figure 2) is located to serve as either an upstream control or downstream impact assessment site for any given discharge.

1.3.6 Air monitoring

The Council undertook odour surveys in the neighbourhood of each site during inspections and ambient and discharge dust monitoring was undertaken using hand held electronic equipment. The monitoring programme provides for deposition gauging to be conducted every three years, this was undertaken during the period under review, and will next be included in the 2024-2025 monitoring programme at selected locations in the vicinity of Tegel Poultry Ltd's feed mill site.

1.3.7 Macroinvertebrate surveys

A biological (macroinvertebrate) survey was performed on two occasions at eight sites in the Mangati Stream to determine whether or not the discharges of treated and untreated stormwater, treated wash water and cooling waters from the sites have had a detrimental effect upon the communities of the stream. Monitoring was undertaken on 8 November 2021 and 10 March 2022.

1.3.8 Fish survey

Electric fishing and spotlighting are techniques commonly used for the assessment of fish species present in waterways. The fish communities have been monitored in the past in three areas focused around MGT000491 (site A1), MGT000505 (site D) and MGT000550 (site F).

Electric fishing surveys have been undertaken intermittently with the previous surveys carried out in December 1990, March 2001, and June 2007. In the 2010-2011 year it was determined by the Council's freshwater biologist that spotlighting was a more appropriate method for this small stream, and so triennial spotlight fish surveys were recommended with the first of these carried out in March 2011 and again in the 2013-2014 and 2016-2017 periods.

In the March 2011 fish survey report it was suggested that future surveys may benefit from the inclusion of fyke nets set in the stream, to try and capture larger, more secretive fish. This was due to the fact that all fish found were less than two years old, and some fish that could be expected to inhabit this stream were not recorded, e.g. giant kokopu, longfin eel. It was concluded that although this may be cause for concern, it may also be as a result of the monitoring method, rather than being indicative of environmental effects.

Fish surveys are scheduled every three years and one was due to be undertaken during the 2019-2020 monitoring period. As a result of the Covid-19 2020 lockdown, this was undertaken during the 2020-2021 period instead. The next survey is scheduled to be undertaken during 2022-2023.

1.3.9 Data review

Special condition 4 of water abstraction consent 6357 held by Tegel Poultry Processing requires that their abstraction records are forwarded to Council by 31 July each year. Council undertakes reviews to ensure that the required records are being kept and that any abstraction has been managed according to the requirements of the consent.

Other data collected by consent holders and/or records that they are required to keep are requested periodically and reviewed by Council Officers for compliance with consent conditions.

1.3.10 Hydrological and environmental telemetry

During the 2021-2022 period the Council continued to maintain a hydrological and meteorological recording station at the bottom of the industrial catchment. This site had been fitted with a multi parameter sonde for the continuous monitoring of pH, conductivity, turbidity, dissolved oxygen and dissolved organic matter since the 2016-2017 period.

2 Barton Holdings Ltd

2.1 Site description

Barton Holdings Ltd (Barton) supplies liquid and dry stock feed from a 0.46 ha storage site at 21 Paraite Road, in the industrial area of Bell Block. GrainCorp Feeds Ltd originally operated this site, however during the 2017-2018 monitoring period, the consent was transferred to Barton.

Stormwater from the site discharges via the New Plymouth District Council (NPDC) reticulated system and stormwater ponds, into the Mangati Stream.

Barton holds water discharge permit **7707-1** to cover the discharge of stormwater into the Mangati Stream. This consent contains the standard special conditions as given in Section 1.2 and two additional special conditions requiring all hazardous substances to be bunded (Photo 4) and limiting the filtered carbonaceous BOD (CBOD) in the Mangati Stream below the mixing zone.

A copy of this permit is attached to this report in Appendix I.



Photo 3 Product in the new storage shed, November 2021

2.2 Results

2.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period, on 7 October 2021, and 4 May, 25 May and 14 June 2022.

7 October 2021

The doors to the large new storage shed were open showing a medium amount of product piled within (Photo 3). The odour emitting from the shed was minimal. There was some tracking of product from the shed across the yard, however this did not extend off the site. Filter socks were in place on stormwater drains and were well maintained and operating well. All chemicals were stored appropriately within the bunded area with no leaks or spills.

4 May 2022

There was minimal activity observed, with one truck leaving the large storage shed with product during the inspection. The yard was tidy and well swept. All storm water drains had filter socks in place, and these appeared to be in good condition. Several IBC's containing fluid were located in an un-bunded area, however these contained water only and were awaiting collection (the water was to prevent the empty containers blowing around in high winds). The older storage shed contained a medium amount of product and the silos in the bunded area were free from leaks or spillages. Rainwater within the bunded area of the silos was at a low level. Inspection of the large new shed on the eastern side of the site found both doors open; door one contained a medium amount of palm kernel product while door two had product piled to near the roof. The odour from both sheds was weak and was not discharging off of site.

25 May 2022

The yard and sheds were clean and tidy with no issues noted at the time of the inspection. The storm water drain socks were in place, however it was noted that these required cleaning. There were no palm kernel odours around the site.

25 May 2022

The site was relatively quiet with very little traffic movement. Storm water drains were protected by drain socks and appeared to be in good order (Photo 4). The yard and sheds were clean and tidy, with no issues observed at the time of inspection. No odours were noted.



Photo 4 Drain sock in place, May 2022

2.2.2 Results of discharge monitoring

The primary monitoring site is located at a manhole in the right of way along the western side of Greymouth Petroleum's offices (site STW001138).

The discharge point was visited on two occasions during the year and the results of the discharge monitoring are given in Table 2.

Table 2 Barton stormwater sampling results, site STW001138

Parameter	Unit	7 October 2021	21 March 2022	Consent limits
Temperature	°C	14.2	17.2	-
рН	рН	7.0	7.3	6-9
Conductivity	mS/cm	11.6	2.9	-
Suspended Solids	g/m³	60	13	100
Turbidity	FNU	23	3.8	-
TBOD	g O ₂ /m³	36	12	25
Total hydrocarbons	g/m³	<4	Visual pass	15*

The samples complied with consent conditions in place for pH, suspended solids and hydrocarbons. The total biological oxygen demand exceeded the consent limit of 25 g O_2/m^3 on one occasion (36 g O_2/m^3).

2.3 Evaluation of performance

A tabular summary of Barton's compliance record for the year under review is set out in Table 3.

Table 3 Summary of performance for Barton consent 7707-1

Pui	rpose: To discharge stormwater into the Mangati Steam		
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2.	Limits stormwater catchment area	Inspection	Yes
3.	Stormwater from loading/unloading area to be directed through a stormwater diversion system by 31 July 2011	Inspection	Yes
4.	Above ground hazardous substance storage to be bunded	Inspection and discussion with consent holder	Yes
5.	Limits on chemical composition of discharge	Discharge sampling	Mostly – one BOD exceeded limit
6.	Discharge cannot cause specified adverse effects in Mangati Stream	Receiving water sampling and observation	Yes
7.	Limit on filtered carbonaceous BOD of stream	Receiving water sampling and observation	N/A

Pur	pose: To discharge stormwater into	the Mangati Steam	
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
8.	Provision (by 31 July 2011) and maintenance of a contingency plan for action to be taken to prevent spillage	Received in 2011	No – plan due for update
9.	Provision (by 31 July 2011), maintenance and adherence to stormwater management plan	Received in 2011	No – plan due for update
10.	Written notification required regarding changes to activities at the site. Notification to include assessment of environmental effects	Inspection and discussion with consent holder	Yes
11.	Lapse of consent	Consent exercised	N/A
12.	Optional review provision re environmental effects and notifications of changes	No further option for review prior to expiry	N/A
this	Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent		Good Good

N/A = not applicable or not assessed

During the year, Barton Holdings Ltd demonstrated a good level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II

3 First Gas Ltd

3.1 Site description

First Gas Ltd (First Gas) operates a warehouse and gas pipe storage yard on the southern side of Connett Road West, adjacent to the Mangati Stream. Although the stormwater discharge from this site is consented, up to the end of the 2003-2004 monitoring period the consent holder had not been included in the compliance monitoring programme for the Mangati Catchment.

The area of the site is approximately 4 ha. The operation building and maintenance building along with sealed car parking area and access make up approximately 60 percent of the area (Photo 5). The remaining 40 percent is covered in grass. The maintenance shed is enclosed, and any wash water from inside the shed is directed to a holding system which is emptied by a licensed wastewater collector.



Photo 5 View of stormwater catchment at First Gas site

Discharges from the site are monitored as part of the combined discharge from the Connett Road stormwater (site STW001055), and periodically at the southern discharge point which enters the open stormwater drain below Tasman Oil and Greymouth Petroleum.

The site is considered to pose only a very low environmental risk and is therefore only scheduled for two inspections per year, however additional inspections are carried out on occasions when the inspecting officer is in the area. The onsite vehicle wash bay is currently decommissioned and no longer discharges to the stormwater system (Photo 6).

First Gas holds consent **4780-2** to discharge stormwater and vehicle wash water to the Mangati Stream. The consent contains the standard special conditions as set out in Section 1.2. It also contains extra conditions that are specific to the site, requiring any vehicle wash water be treated and the consent holder to sample and analyse the wash water.

A copy of the permit is attached to this report in Appendix I.



Photo 6 Decommissioned wash bay, August 2020

3.2 Results

3.2.1 Inspections

Two routine inspections were conducted at the site during the monitoring period, on 16 November 2021 and 12 May 2022.

16 November 2021

The site was generally tidy with all stormwater drains around the site clear. Inspection of the vehicle wash bay showed it was clean, with no evidence of use. Staff advised that they had decided to keep the vehicle wash bay consent, although in the short term they would not be using this. The flammable gas store was tidy and secure. There were minor earthworks in progress in the lower carpark area, with a drain being dug to allow surface water to run freely through the grassed area prior to discharge from site.

12 May 2022

The washdown area was clean, clear, and tidy with no evidence of recent use. The chemical shed was locked, however there were some containers on the ground outside. One of which contained an ecotoxic liquid and another was unlabelled. The inspecting officer noted that these should be locked in the hazardous chemical shed when they are not being used. The minor earthworks to help with extra drainage of surface water in the lower carpark were complete.

3.3 Evaluation of performance

A tabular summary of First Gas' compliance record for the year under review is set out in Table 4.

Table 4 Summary of performance for First Gas consent 4780-2

Condition requirement		Means of monitoring during period under review	Compliance achieved?
1.	Require best practice be adopted	Inspection and liaison	Yes
2.	Specifies catchment area	Inspection	Yes
3.	Require treatment of vehicle wash water	Wash bay decommissioned	N/A
4.	Limits on chemical composition of discharge	Visual inspection	Yes
5.	Sampling of wash water	Wash bay decommissioned	N//A
6.	Limits effects on receiving waters	Visual inspection and sampling	Yes
7.	Maintain contingency plan	Plan received with application	Yes
8.	Maintain and adhere to a management plan	Plan received with application	Yes
9.	Notification of changes to site processes	Inspections and liaison with staff	Yes
10.	Review condition	Next option for review June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent			High
Overall assessment of administrative performance in respect of this consent			High

N/A = not applicable or not assessed

During the period under review, First Gas demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

4 Greymouth Petroleum Acquisitions Company Ltd

4.1 Site description

Greymouth Petroleum Acquisitions Company Ltd's (GPL) pipe yard on De Havilland Drive, formerly operated by Fletcher Challenge Energy Taranaki Ltd (FCET), was established in 1986 as a storage area for well casing, drill pipe and other drilling and testing equipment used in the oil industry. The yard has been used for cleaning and preservation of casing and drill pipe (Photo 7).

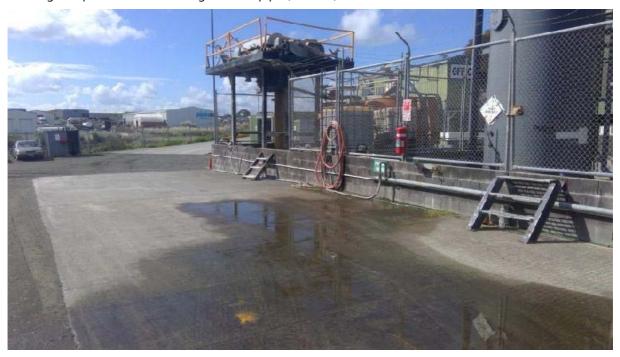


Photo 7 Storage areas and bunding on GPL site, September 2020

During development of the site, about 1 ha of the 1.48 ha area was levelled with a 2% slope eastward towards the Mangati Stream. The surface was overlain with filter cloth and metal. Perimeter drains were made along the western and northern boundaries (to divert stormwater from upslope around the site) and along the eastern boundary to collect stormwater runoff from the site itself. An oil skimmer interceptor was constructed on the eastern drain, above its junction with the northern drain, for removal of hydrocarbons. Separated hydrocarbons are skimmed off the surface of the separator as necessary and disposed of.

In the 2020-2021 period, a separate sediment retention pond was installed in the stormwater system below the interceptor but above the final holding pond (Photo 8). Originally the discharge from the holding pond entered a small open drain where it mixed with discharges from Tasman Oil Tools and First Gas prior to being discharged to the Mangati Stream. Works undertaken in the 2016-2017 monitoring period resulted in the discharges from First Gas and Tasman Tools being piped along the bottom of the dry stream bed and GPL stormwater discharging to a gravel filter bed laid over the top of the pipework (Photo 9). These works were undertaken to improve the quality of the discharges from the GPL site.



Photo 8 New sediment retention pond, September 2020



Photo 9 Gravel filter bed installed on GPL pond discharge outlet, September 2020

Greymouth Petroleum holds water discharge permit **4664-3** to cover the discharge of treated stormwater from a pipe yard used for the cleaning and storage of casing and drilling equipment, and the storage of hazardous substances. The consent contains the standard special conditions as given in Section 1.2.

A copy of this permit is attached to this report in Appendix I.

4.2 Results

4.2.1 Inspections

Three routine inspections were conducted at the site during the monitoring period, on 9 December 2021 and 2 February and 20 June 2022.

9 December 2021

The yard was compliant with all consent conditions at the time of the inspection.

2 February 2022

The site was observed to be tidy. Due to recent prolonged dry weather there was a lot of dust observed onsite. The inspecting officer noted that this should be monitored to ensure that dust did not become objectionable beyond the site boundary. The stormwater system was not discharging at the time of the inspection.

20 June 2022

The inspection was preceded by heavy rain and strong winds. The site was tidy and appeared in a similar state to the previous inspection. All stormwater was being collected and directed to the treatment system and it was noted that previous works to prevent stormwater overflowing the site during heavy rainfall had been successful. The first sediment retention pond was heavily laden with sediment and the water within it was discoloured. The second pit was also discoloured. Stormwater was discharging from site at the time of inspection. Good bunding practices appeared to be in place, with chemicals and drums stored appropriately. It was noted that hydrocarbon spills from vehicles/machinery had previously occurred as these were evident due to the wet conditions.

4.2.2 Results of discharge monitoring

The primary monitoring site for GPL's discharge is at site (IND001012) where it exits the gravel filter bed into a drain which discharges to the Mangati Stream. The recent stormwater upgrades and introduction of the gravel filter bed have reduced the frequency of discharge from the GPL site.

The site was visited twice for sampling during the period under review, however no discharge was occurring and as such no samples were collected. Copper, lead and zinc are monitored at this site as it is known that, historically, greases containing these contaminants were washed from pipes and the wash water was discharged to land. Although the grease currently used does not contain these elements, and the wash down wastewater is now directed to trade waste, this historical practice resulted in an elevated concentration of copper, lead and zinc in the soil on site. Shortly after taking over the site, Greymouth Petroleum undertook remediation work in the vicinity of the wash pad, stormwater basin and open drain exiting the site to address this. It is however noted that there is the potential for these contaminants to still be present in other areas of the site surface, and that they may become entrained in stormwater and discharged offsite.

4.3 Evaluation of performance

A tabular summary of GPL's compliance record for the year under review is set out in Table 5.

Table 5 Summary of performance for GPL consent 4664-3

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2.	Limit on stormwater catchment area	Inspection	Yes
3.	Stormwater to be discharged through treatment system	Observation at inspection	Yes
4.	Limits on chemical composition of discharge	No discharge at the time of sampling visit	N/A
5.	Consent holder to provide all weather access to sampling site	Inspection and liaison with consent holder	Yes
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Results of receiving water sampling and observation at the time of sampling	Yes
7.	Activities to be conducted in accordance with Environmental Management Plan	Inspection and liaison with consent holder	Yes
8.	Plan to be reviewed on request from Council or prior to changes at the site	Updated document supplied June 2020	Yes
9.	Optional review provision re environmental effects	No further provision for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			

N/A = not applicable or not assessed

During the year, Greymouth Petroleum Acquisitions Company Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

5 J Swap Contractors Ltd

5.1 Site description

J Swap Contractors Limit (J Swap) operate a feed store on the corner of Corbett Road and de Havilland Drive.

The site is predominantly used for the storage and dispatch of palm kernel expeller cattle feed (PK). There are two feed stores on the site in which PK is stored, screened and then loaded on to trucks for delivery (Photo 10). A small section of one of the buildings is occupied by Ballance Agri-Nutrients where fertilisers are stored and transferred.



Photo 10 View of PK stockpiled inside storage shed, July 2020

J Swap operate a truck wash onsite which sends wash water to trade waste. After 60 minutes of rain (with no washing activity) it then diverts stormwater from the wash pad to mix with roof water for discharges to an unnamed tributary of the Mangati Stream. This is done to minimise the entrainment of contaminants in the stormwater prior to discharge to the Mangati Stream. The site also contains a truck refuelling facility.

J Swap holds water discharge permit **10085-1** to discharge stormwater from a transport depot into an unnamed tributary of the Mangati Stream. This consent contains special consent conditions as given in Section 1.2., as well as five extra conditions that deal with site development and the provision of stormwater system designs and as built plans.

A copy of this permit is attached to this report in Appendix I.



Photo 11 Truck wash, November 2021

5.2 Results

5.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period, on 16 November 2021 and 4 May, 25 May and 14 June 2022.

16 November 2021

The truck wash had recently been used and there was an accumulation of sediment left within (Photo 11). The site manager explained the drivers have been told to clean down the bay once used to prevent the next truck tracking the sediment outside of the wash bay, he would speak to his drivers about this and remind them. The water within the truck wash was being captured and directed to the separator for disposal to trade waste. With rain earlier in the day the yard had not been swept (waiting for this to dry out) and there was some tracking of product from the sheds and across the yard. However, there was no sign of product tracking offsite. Inspection of the stormwater drains showed the filter socks were in place and in good condition.

4 May 2022

The site was tidy with very little activity. There was a minor amount of tracking of product from the storage shed. Palm kernel odour was detected at a weak level around the site. The truck wash was in use with grey water being captured and directed to the separator for disposal to trade waste. Stormwater drains throughout the site had filter socks in place and these were in good working condition. The site manager

advised that a contractor had been engaged to spray the sampling areas to provide access as per condition 5 of the consent.

25 May 2022

The site was clean, tidy and well maintained at the time of the inspection. Filter socks were in place in stormwater drains and these appeared to be in good working order. The truck wash area had recently been used and this was tidy with the water captured within for disposal to trade waste. There was a very weak palm kernel odour detected but this was only around the entry to the shed.

14 June 2022

The site was clean, tidy, and well maintained. There was no palm kernel odour detected during the inspection. The stormwater drains had filter socks in place which appeared to be in good working order. The truck wash area was being used and this was tidy with the water captured within for disposal to trade waste. The track area around the sampling points had recently been sprayed.

5.2.2 Results of discharge monitoring

Treated stormwater is discharged to the Mangati Stream in two places. Roof water combined with stormwater from the truck wash area discharges directly to the piped unnamed tributary of Mangati Stream (site STW001151) whilst waters from the other areas of the site are directed to a wetland constructed on top of the piped tributary. The wetland discharges via two floating decanters and a riser directly into the piped tributary (site STW002089).

The results of discharge monitoring for combined roof stormwater and the wetland discharges are given in Table 6 and Table 7 respectively.

Table 6 J Swap roof stormwater sampling results, site ST
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Parameter	Unit	16 Nov 2021	Consent limits
Temperature	°C	16.6	-
рН	рН	6.7	6-9
Conductivity	mS/m	11.7	-
Suspended solids	g/m³	4	100
Turbidity	FNU	1.7	-
CBOD ₅	g O ₂ /m³	4.1	5
TBOD	g O ₂ /m³	-	-
NH ₃	g/m³	0.000023	0.025*
NH ₄	g/m³	0.016	-
Total hydrocarbons	g/m³	4.9	15*

^{*} NH₃ limits apply to instream only (not discharge); Hydrocarbons measured in place of oil & grease

Table 7 J Swap wetland stormwater sampling results, site STW002089

Parameter	Unit	16 November 2021	Consent limits
Temperature	°C	17.1	-
рН	рН	6.8	6-9
Conductivity	mS/m	18.3	-
Suspended solids	g/m³	<3	100

25

Parameter	Unit	16 November 2021	Consent limits
Turbidity	FNU	1.1	-
CBOD ₅	g O ₂ /m³	1.2	5
NH₃	g/m³	0.00015	0.025*
NH ₄	g/m³	0.076	-
Total hydrocarbons	g/m³	<0.7	15*

^{*} NH₃ limits apply to instream only (not discharge); Hydrocarbons measured in place of oil & grease

All results for both sited were within consented limited and historical ranges. The quality of both site discharges continues to be maintained at a high standard, with consistently low concentrations of hydrocarbons, suspended solids, CBOD and nutrients.

5.3 Evaluation of performance

A tabular summary of J Swap's compliance record for the year under review is set out in Table 8.

Table 8 Summary of performance for J Swap consent 10085-1

Purpose: To discharge stormwater from a transport depot into an unnamed tributary of the Mangati Stream				
Condition requirement		Means of monitoring during period under review	Compliance achieved?	
1.	Adopt best practice	Inspection	Yes	
2.	Limit on catchment area	Inspection	Yes	
3.	Stormwater to be treated	Inspection/sampling	Yes	
4.	Limit on discharge constituents	Sampling	Yes	
5.	Maintain safe access to the sampling point	Inspection/sampling	Yes	
6.	Limit on effects	Sampling	Yes	
7.	Submit final stage one stormwater plans	Documents received	Yes	
8.	Construction as per plans	Construction completed	Yes	
9.	Provide as built plans for stage one	Documents received	No Only original design plan submitted	
10.	Provide plans for future stages prior to construction	No further development as yet	Yes	
11.	Provide as built plans for subsequent development	No further development as yet	Yes	
12.	Operate site as per management plan	Inspection	Yes	
13.	Provide contingency plan	Documents received	Yes	

Purpose: To discharge stormwater from a transport depot into an unnamed tributary of the Mangati Stream				
Condition requirement	Condition requirement Means of monitoring during period under review			
14. Notify Council prior to changes that could alter nature of discharge	Inspection and liaison with consent holder	Yes		
15. Lapse of consent	Consent exercised	N/A		
16. Review of consent	No further option for review prior to expiry	N/A		
Overall assessment of consent compli of this consent Overall assessment of administrative p	High High			

N/A = not applicable or not assessed

During the year, J Swap Contractors Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

6 McKechnie Aluminium Solutions Ltd

6.1 Site description

McKechnie Aluminium Solutions Ltd (MCK) operates a metal melting and extrusion plant that used to process copper, brass (copper/zinc) and aluminium. The copper and brass divisions have closed and the equipment has been removed from the site. The MCK manufacturing plant extends across the boundary between the Mangaone and Mangati catchments. Drainage from the eastern side of the site (aluminium processing areas) is into the Mangati Stream, whilst drainage from the western side of the site (historically copper and brass processing and now aluminium scrap storage and sorting) is to the eastern headwaters of the Mangaone Stream.

Stormwater from the eastern side of the plant flows into the Bell Block industrial drain through an underground system at two points along Paraite Road, one adjacent to (east of) the plant and one north of MCK's aluminium extrusion building. Cooling water is discharged from cooling of a press coil and heat treatment electrodes at the northern point.

About 2.7 ha of the site is under roof, comprising the old brass and copper processing buildings and the aluminium foundries, extrusion and finishing mills, and administration and utilities buildings. In the rest of catchment there are bunded areas for storage of chemicals and oils, oil/water separators, wastewater holding tanks and an open aluminium scrap yard (Photo 12). The majority of the aluminium sorting and storage is now done under cover in the Mangaone Stream catchment. Wastewater is sent to sewer, after pH neutralisation.



Photo 12 Scrap sorting yard at MCK site, May 2020

Since regular inspection by the Council began in 1982, MCK Metals, the former owner of the site, instituted a series of progressive upgrades of waste containment, treatment and disposal facilities, including:

- the construction of a wastewater neutralisation plant;
- · cessation of soakage trenches for disposal of wastewater;
- construction of bunds around chemical storage areas (Photo 13);
- diversion of effluent streams to sewer;
- · changes in solid waste management practice;
- the use of a mechanical sweeper for the cleaning of the scrap sorting yards; and
- the installation of baghouses in the brass and copper and aluminium foundries, thus reducing aerial deposition from the site.

A suite of contingency plans are in place in case of spillage. MCK operates an Environmental Management System, and specific contingency plans are included as individual Works Procedures within the McKechnie Aluminium Solutions Ltd Management System-Environmental Manual. All new work procedures that have an environmental aspect are incorporated into the documented system. The strengths of this new integrated system are that responsibilities are clearly defined, and that the whole system is reviewed regularly.



Photo 13 Hazardous chemical storage and bunding, July 2020

MCK holds water discharge permit **3139-3** to cover the discharge of stormwater (including cooling water) from an industrial site into an unnamed tributary of the Mangati Stream. This consent contains the standard special conditions as given in Section 1.2

The permit is attached to this report in Appendix I.

In addition to 3139-3, water discharge permit **1857-6** is held to discharge stormwater from the western part of the industrial site, adjacent to Henwood Road, to a tributary of the Mangaone Stream in the Waiwhakaiho catchment. McKechnie also holds air discharge consent **4034-3** to provide for the discharge of emissions into the air from extrusion and re-melting of aluminium and associated activities. The monitoring of these consents is discussed in a separate report.

6.2 Results

6.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period, on 16 November 2021 and 4 May, 25 May and 14 June 2022.

16 November 2021

The site was busy with normal operations. Swarf was tracking to the drains in the area of high traffic between the scrap area and the factory. Drain screens were in place and there was evidence of regular maintenance and clearing of swarf accumulations. All hazardous chemicals were appropriately contained. Rainwater within the bunding of the empty chemical drum storage area was at a high level and the site manager advised he would ensure this was removed. Well-equipped spill kits were in place throughout the site. The flammable liquid storage area was tidy with no sign of spills or leaks. There was evidence of a small diesel spill on the concrete area beside the diesel tank but this had not travelled to the stormwater drains and appeared worse than it was due to the earlier rain. All onsite drains were clear. The extension of the building housing the second powder coat line had been completed.

4 May 2022

The site was busy with normal operations. Traffic was particularly busy within the scrap area, with some swarf observed tracking to the drains. All drain screens were in place and appear to be regularly maintained to prevent blocking. All hazardous chemicals onsite were appropriately contained. Rainwater within bunding was at a low level. Spill kits were in place and in good condition throughout the site. The flammable liquid storage shed was tidy with no sign of spills or leaks. All drains were clear.

25 May 2022

The site was busy with normal operations. Stormwater drains contained drain screens, and were clean and clear at the time of the inspection. All of the oil and chemical areas were tidy and well maintained, with low levels of water in the bunded areas. Spill kits were located in relevant areas. The empty drum area was tidy and well organised.

14 June 2022

The site was busy with normal operations occurring. The storm water drains contained drain screens, and were clear at the time of the inspection. The oil and chemical areas were tidy and well maintained. There were very low levels of water in the bunded areas. The yard was clean, tidy and well maintained.

6.2.2 Results of discharge monitoring

MCK's eastern stormwater is monitored where it joins the Paraite Road stormwater drain, next to the plant entrance (site STW001014). The northern stormwater drain is monitored at a manhole within the plant (site STW001028).

Both sites were visited three times during the period under review, twice during wet weather surveys and once during a dry weather survey. During the dry weather run no discharge was occurring and therefore no samples were collected.

The results from discharge monitoring at both sites are given in Table 9 and Table 10.

Table 9 MCK Paraite Road stormwater sampling results, site STW001014

Parameter	Unit	16 Nov 2021	21 March 2022	Resource consent limits
Temperature	°C	17.3	15.8	-
рН	рН	6.9	6.8	6-9
Conductivity	mS/m	14.4	0.6	-
Suspended solids	g/m³	25	37	100
Turbidity	FNU	27	2.9	-
Total hydrocarbons	g/m³	4.7	<0.7	15*
Metals (acid soluble)				
Aluminium	g/m³	0.55	0.19	-
Copper	g/m³	0.074	0.034	-
Lead	g/m³	0.0058	0.004	-
Zinc	g/m³	0.62	0.20	-
Metals (dissolved)				
Copper	g/m³	0.042	0.0097	-
Zinc	g/m³	0.48	0.152	-

^{*}Hydrocarbons measured in place of oil & grease

Table 10 MCK onsite stormwater sampling results, site STW001028

Parameter	Unit	16 Nov 2021	21 March 2022	Resource consent limits
Temperature	°C	17.0	15.8	-
рН	рН	6.5	6.5	6-9
Conductivity	mS/m	12.7	0.2	-
Suspended solids	g/m³	<3	6	100
Turbidity	FNU	2.5	0.38	-
Total hydrocarbons	g/m³	<0.7	<0.7	15*
Metals (acid soluble)				
Aluminium	g/m³	0.074	<0.06	-
Copper	g/m³	0.0161	0.011	-
Zinc	g/m³	0.50	0.24	-
Metals (dissolved)				
Copper	g/m³	0.008	0.0049	-
Zinc	g/m³	0.46	0.23	-

^{*}HC measured in place of oil & grease

The samples complied with limits on the pH range, suspended solids and oil and grease.

Copper, lead and zinc levels are not specified in consent conditions, however these parameters are monitored because they are likely present on site, and the possibility exists of them becoming entrained within the discharge.

6.3 Evaluation of performance

A tabular summary of MCK's compliance record for the year under review is set out in Table 11.

Table 11 Summary of performance of MCK consent 3139-3

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects	Inspection and discussion with consent holder	Yes
2.	Consent to be exercised in accordance with application information	Inspection and discussion with consent holder	Yes
3.	Limit on stormwater catchment	Inspection	Yes
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Observation and receiving water sampling	Yes
5.	Limits on chemical composition of discharge	Discharge sampling	Yes
6.	Maintenance of a contingency plan	Updated plan received January 2018	Yes
7.	Maintenance of stormwater management plan	Plan received – update due	Yes
8.	Adherence to stormwater management plan	Observations and discussions at inspection	Yes
9.	Provision for consent to lapse if not exercised	Consent exercised	N/A
10.	Optional review provision re environmental effects	No further opportunity for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			

N/A = not applicable or not assessed

During the year, McKechnie Aluminium Solutions Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

7 New Plymouth District Council

7.1 Site description

The roads served by the main Bell Block industrial drainage system occupy a significant stormwater catchment area of 27.5 ha. This system also serves as a conduit for the carriage of the stormwater from the industrial sites in this area. When the application for the discharge consent was lodged, NPDC stated that 'NPDC has no physical control over accidental spills or deliberate disposal of contaminants into the stormwater system'.

The NPDC stormwater drainage system had three main discharge points; into the Mangati Stream at the bottom of De Havilland Drive West, into the Mangati Stream at the bottom of Connett Road West, and the industrial drain outlet into the unnamed tributary at the rear of the Mainland site.

At the time of the consent renewal in 2002, routine physicochemical monitoring of the discharge had shown that the discharge occasionally contained high levels of suspended solids, and generally contained elevated levels of ammoniacal nitrogen, copper and zinc. Results of biomonitoring in the receiving water had shown that although the quality of discharges from the industrial area was improving, the Mangati Stream continued to be severely impacted below the industrial area.

In order to try to mitigate the effects of the quality of the stormwater carried by the NPDC pipework, during the 2002-2003 monitoring period NPDC redesigned the way in which stormwater was directed to the stream from the Connett Road and Paraite Road areas. A constructed wetland was put in place with the intention of both upgrading the quality of water discharged to the Mangati Stream, and providing a mechanism for containment of any spills or contaminants from the industrial area. The broad scope for this project was to develop an integrated water and land management system for the middle Mangati catchment in which:

- Stormwater from industrial areas is captured and passed through a constructed wetland for trapping
 of litter, sediment, hydrocarbons (and chemical contaminants to the extent that this is feasible)
 before being discharged to the stream.
- Industrial land uses are physically and hydrologically isolated from the stream by the development of a riparian reserve.
- A riparian reserve providing public access, a utilities corridor and machine access for stream maintenance purposes is provided.
- Flood detention structures and ponding areas are developed as required and integrated into the riparian reserve development.

Construction of the four-pond system was completed in the 2002-2003 monitoring year.

The plans submitted to the Council indicated that under light rainfall conditions, the stormwater flows under Connett Road, and passes through a downstream defender pollutant entrapment device installed in the 300 mm pipeline in Connett Road, before entering pond 1 adjacent to Connett Road and the Mangati Stream (STW001055). The water from pond 1 flows through pond 2 (Photo 14) and into pond 3 from which it then discharges into the Mangati Stream (STW002056). When there is higher flow from moderate rainfall, stormwater will also discharge via the industrial drain outlet (STW001026) and unnamed tributary into pond 4, which then flows into pond 3. There is a provision for pond 4 to discharge into the Mangati Stream (STW002055) when the water level in the pond increases to a certain point. There is also a drainage channel from the unnamed tributary to the Mangati Stream (MGT000503) to allow the ponds to be bypassed under heavy rainfall conditions, when it was expected that the level of contaminants in the stormwater would be at their lowest due to the high rate of dilution (Figure 3).



Figure 3 NPDC stormwater reticulation system and sampling points

More recently, the eastern side of the Mangati catchment has been developed along de-Havilland Drive and Connett Rd. The de Havilland drive sites generally discharge to the Mangati via the stormwater network and currently there is no treatment infrastructure in this section of the network. The eastern Connett Rd area discharges to land via rain cells buried under the grass verges with a 150 ml overflow pipe discharging to the stream. In heavy rain events further overflow is provided by grass swales on the road verge.

NPDC holds permit **4302-2** to cover the discharge of up to 5,200 L/s of stormwater from industrial sealed areas and roofs. The consent has five conditions, which cover adoption of best practice to prevent or minimise adverse effect on the receiving environment, requirement for management plan, prevention and mitigation of any erosion, and review of conditions.

The permit is attached to this report in Appendix I.



Photo 14 NPDC stormwater pond 2, September 2021

7.2 Results

7.2.1 Inspections

Eight routine inspections were conducted at the discharge points during the monitoring period, on 22 September, 4 October, and 7 December 2021, and 2 February, 3 May, 12 May, 24 May, and 14 June 2022.

The inspections found the pond system to be working well. Flax and other vegetation were well established and there was no sign of erosion along the banks. The ponds were filling with reeds and other plant species and appeared to be working well to filter suspended solids.

7.2.2 Results of stormwater discharge monitoring

Stormwater is discharged to the Mangati Stream from the NPDC treatment wetlands, and from at various points from roads running through the industrial area. The results of monitoring in the Mangati Stream itself are reported in Section 16.1.

Stormwater that is discharged to the Mangati Stream from roads running through the industrial area is monitored at three points, De Havilland Drive West, Connett Road West, and the NPDC industrial drain.

Two NPDC stormwater drains terminate at the ponds system. Site STW001055 discharges into Pond 1, while STW001051 discharges directly to Pond 4.

The NPDC wetlands system has two locations discharging treated stormwater to the Mangati Stream. Pond 4 discharges at site STW002055, while pond 3 is at site STW002056.

7.2.2.1 De Havilland Drive West

The De Havilland Drive stormwater system discharges directly into the Mangati Stream (site STW001054). It has stormwater components from several small industrial sites, as well as part of Tegel Foods Ltd's (Tegel's) poultry processing plant on the southern side of the road, Ireland Roading and Construction Ltd's depot and MPC Kinetic Well Services workshop on the northern side of the road.

The site was visited once during the monitoring period during wet weather. Results of the sampling are displayed in Table 12.

Table 12 NPDC de Havilland Drive West stormwater sampling results, site STW001054

Parameter	Unit	22 March 2022	RFWP Guideline
Temperature	°C	18.4	-
рН	рН	6.4	6-9
Conductivity	mS/m	27.0	-
Suspended solids	g/m³	<3	100
Turbidity	NTU/FNU	0.65	-
TBOD ₅	g O ₂ /m³	0.8	-
NH ₃	g/m³	0.00042	-
NH ₄	g/m³	0.47	-
DRP	g/m³	0.108	-
Total hydrocarbons	g/m³	<0.7	15*

^{*}Hydrocarbons measured in place of oil & grease

The de Havilland Drive catchment area typically discharges high quality stormwater, due to its relatively small size and fewer inputs from industrial sites. This is shown in the low suspended solids concentrations and hydrocarbon results which are frequently below the limits of detection.

7.2.2.2 Connett Road West

The Connett Road stormwater system captures runoff from the remaining catchment area, which includes the majority of consented discharges as well as sites operating under permitted activity rules.

7.2.2.2.1 Connett Road discharges to NPDC wetlands system

Stormwater and runoff from the Connett Road carriageway discharges into pond 1 of the NPDC treatment wetland (site STW001055) as well as pond 4 (STW001051).

Pond 1 influent stormwater was sampled twice during the monitoring period (Table 13), while pond 4 influent was unable to be sampled once due to access restrictions.

Table 13 NPDC pond 1 influent stormwater sampling results, site STW001055

Parameter	Unit	4 October 2021	22 March 2022	RFWP Guideline
Temperature	°C	15.3	19.2	-
рН	рН	6.5	6.9	6-9
Conductivity	mS/m	6.4	13.2	-
Turbidity	NTU/FNU	4.9	0.21	-
TBOD5	g O ₂ /m ³	1.5	<0.4	-

Parameter	Unit	4 October 2021	22 March 2022	RFWP Guideline
Total hydrocarbons	g/m³	<0.7	<0.7	15*
Nutrients				
NH₃	g/m³	0.000077	<0.00003	-
NH ₄	g/m³	0.092	<0.01	-
DRP	g/m³	<0.004	<0.004	-
Metals (acid soluble)				
Copper	g/m³	0.0056	<0.01	-
Zinc	g/m³	0.109	<0.02	-
Metals (dissolved)				
Copper	g/m³	0.0032	0.0006	
Zinc	g/m³	0.098	0.0087	-

^{*}Hydrocarbons measured in place of oil & grease

BOD and conductivity results for the pond 1 influent indicate that the water entering the wetlands system was of sufficiently high quality at the time of sampling. There were low levels of dissolved metals detected in the influent, which are attributed to the various industries and activities that occur within this area.

7.2.2.2.2 Connett Road West stormwater

Samples are also collected from various locations in the reticulation system to assess the performance of individual consent holders. In total, four sites are routinely visited and samples collected if the stormwater system is flowing at that site at the time. These were either unable to be accessed safely, or were not discharging at the time of the visit during the 2021-2022 monitoring period.

NPDC stormwater middle Connett Road (STW001010): This site receives stormwater discharges from the MCK, Tegel Feed Mill, and TIL sites.

NPDC stormwater Central Drain (STW001011): This site receives stormwater discharges from Nexans, Schlumberger, Tegel Feed Mill, and Tegel Processing sites.

NPDC stormwater upper Connett Road (STW001012): This site receives stormwater discharges from Barton, OMV, and neighbouring properties.

NPDC stormwater lower Connett Road (STW001052): This site acts as an overflow to the industrial drain, and carries the combined discharges from the sites listed above as well as runoff from nearby road ways.

7.2.2.3 NPDC industrial drain

Along with the de Havilland Drive and Connett Road stormwater systems, a third reticulation point discharges to the Mangati Stream via an industrial drain situated to the rear of the Mainland Products site. This drain encompasses the northern perimeter of the Mangati industrial zone. The sampling site (STW001026) at this point includes discharges from the former Halliburton site (now operated by Egmont Honey), Mainland Products, a range of smaller permitted activity sites, and also high flow inputs from the NPDC Connett Road West storm pipe. There was no discharge from the site when visited on 22 March 2022.

The industrial drain flows into the Mangati at sampling site MGT000503. Chemical sampling results from this point are shown in Table 14.

Table 14 NPDC industrial drain to Mangati Stream, site MGT000503

Parameter	Unit	22 March 2022	RFWP Guideline
Temperature	°C	17.3	-
рН	рН	6.3	6-9
Conductivity	mS/m	13.1	-
DO	mg/l	6.61	-
DO	%	70	-
Suspended solids	g/m³	<3	100
Turbidity	NTU/FNU	0.9	-
COD	g O ₂ /m ³	<6	-
TBOD ₅	g O ₂ /m³	0.6	-
Total hydrocarbons	g/m³	< 0.7	15*
Nutrients			
NH ₃	g/m³	0.000024	-
NH ₄	g/m³	0.037	-
DRP	g/m³	<0.004	-
Metals (acid soluble)			
Copper	g/m³	<0.01	-
Zinc	g/m³	0.04	-
Metals (dissolved)			
Copper	g/m³	0.0012	-
Zinc	g/m³	0.049	-

^{*}Hydrocarbons measured in place of oil & grease

7.2.2.4 NPDC wetlands discharges to Mangati Stream

Water from the NPDC wetland pond 3 discharges into the Mangati Stream over a v-notch weir (STW002056). When there is higher flow from moderate rainfall, stormwater will also discharge into pond 4, which then flows into pond 3. There is also provision for pond 4 to discharge directly into the Mangati Stream (STW002055) when the water level in the pond increases to a certain height.

Samples were collected from the weir at pond 3 on two occasions. The overflow pipe from pond 4 to the Mangati Stream was also discharging on one of these visits, and samples were taken. The results are displayed in Table 15 and Table 16 respectively.

Table 15 NPDC wetland pond 3 discharge to Mangati Stream, site STW002056

Parameter	Unit	4 Oct 2021	22 March 2022	RFWP Guideline
Temperature	°C	14.3	17.3	-
рН	рН	6.4	6.7	6-9
Conductivity	mS/m	6.2	6.6	-
Suspended solids	g/m³	6	7	100
Turbidity	FNU	3.2	3.6	-

Parameter	Unit	4 Oct 2021	22 March 2022	RFWP Guideline
COD	g O ₂ /m³	6	14	-
CBOD ₅	g O ₂ /m³	<1.0	-	-
TBOD ₅	g O ₂ /m ³	1.2	1.6	-
Total hydrocarbons	g/m³	<0.7	<0.7	15*
Nutrients				
NH₃	g/m³	0.000057	0.00021	-
NH ₄	g/m³	0.081	0.13	-
DRP	g/m³	<0.004	<0.004	-
Metals (acid soluble)				
Aluminium	g/m³	0.083	<0.06	-
Copper	g/m³	0.0052	<0.01	-
Lead	g/m³	0.0005	<0.002	-
Zinc	g/m³	0.103	0.12	-
Metals (dissolved)				
Copper	g/m³	0.0031	0.0045	-
Zinc	g/m³	0.093	0.121	-

^{*}Hydrocarbons measured in place of oil & grease

Table 16 NPDC pond 4 overflow discharge to Mangati Stream, site STW002055

Parameter	Unit	4 Oct 2021	RFWP & ANZECC guideline values
Temperature	°C	14.3	-
рН	рН	6.4	6-9
Conductivity	mS/m	6.4	-
Suspended solids	g/m³	-	100
Turbidity	NTU	10.2	-
TBOD5	g O ₂ /m ³	1.6	-
Total hydrocarbons	g/m³	<0.7	15*
Nutrients	·		
NH ₃	g/m³	0.000019	-
NH ₄	g/m³	0.028	-
DRP	g/m³	<0.004	-
Metals (acid soluble)	·		
Copper	g/m³	0.0127	-
Zinc	g/m³	0.107	-
Metals (dissolved)			
Zinc	g/m³	0.079	-

^{*}Hydrocarbons measured in place of oil & grease

The results from chemical monitoring of stormwater from the NPDC reticulation and treatment wetlands indicated that all parameters complied with RFWP limits. Historical and current activities within this stormwater catchment have resulted in elevated levels of dissolved metals in the discharge, however these concentrations were within expected ranges. Dissolved metals concentrations in this area continue to show fluctuating trends, with higher concentrations noted during the summer low flow period.

7.3 Evaluation of performance

A tabular summary of NPDC's compliance record for the year under review is set out in Table 17.

Table 17 Summary of performance for NPDC consent 4302-2

Pu	Purpose: To discharge up to 5,200 litres/second of stormwater from industrial sealed areas and roofs			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Consent to be exercised in accordance with application information	Inspection and discussion with consent holder	Yes	
2.	Adoption of best practicable option to minimise effects	Inspection and discussion with consent holder	Yes	
3.	Provision of designs, specifications and operating procedures	Review of Council records	Yes	
4.	Prevention and mitigation of erosion	Inspection	Yes	
5.	Optional review provision re environmental effects	No further option for review prior to expiry	N/A	
cor	Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			

N/A = not applicable or not assessed

During the year, NPDC demonstrated a high level of environmental and administrative performance and compliance with their resource consent conditions as defined in Appendix II.

8 Nexans New Zealand Ltd

8.1 Site description

The electric wire and cable manufacturing plant of Nexans New Zealand Ltd (Nexans) was established on Paraite Road beside the railway line in 1967. The plant produces for both domestic and export markets. This company was previously known as Olex New Zealand Ltd.

The site occupies an area of 6.7 ha, of which about 85% is developed. A large variety and volume of chemicals, some potentially toxic, are stored on the site. The majority are stored within buildings in areas where they can be contained if spilled.

Chemicals are stored outside the buildings in two bunded areas. In one area, phthalate esters and liquid plasticisers are stored in three 50,000 L tanks. In another area, copper wire drawing liquor is stored in a 12,000 L above ground tank which is bunded. A security fence surrounds areas vulnerable to vandalism (Photo 15). All bunded areas are fitted with liquid level alarms and stormwater from within one of these bunds is discharged to the stormwater drains after appropriate quality checks. The other bund is used to harvest rainwater which is then used for cooling water.



Photo 15 Secure storage at Nexans site, May 2021

Nexans also holds an air discharge consent to cover the minor discharges associated with the Curing Continuous Velocity (CCV) process. This process involves the moulding of an insulating layer around a conductor at elevated temperatures in an inert nitrogen atmosphere. The discharge stream from this process has the condensates separated before the gas is released to atmosphere via a sparge nozzle above the factory roof. The gas discharged is predominantly nitrogen, but contains alkanes at less than 0.5%, and

acetophenone (10 ppm). Acetophenone has a sweet orange blossom odour and is not expected to give rise to any adverse environmental effects.

There is a contingency plan in place in case of spillages, with a revised plan dated July 2016 being received and accepted by the Council.

A comprehensive Environmental Management System has been put in place at the Nexans site, and a revised stormwater management plan was received in May 2015.

Nexans holds permit **4497-3** to discharge stormwater and cooling water from an electric wire and cable manufacturing site off Paraite Road, and air discharge permit **5417-2** to discharge emissions into the air from an electric wire and cable manufacturing plant and associated activities.

Copies of both permits are attached to this report in Appendix I.

8.2 Results

8.2.1 Inspections

Two routine inspections were conducted at the site during the monitoring period, on 16 November 2021 and 12 May 2022.

16 November 2021

The site was tidy with normal operations underway. The copper liquor tank bund was secure and free of excess rainwater, having been recently pumped. There were good records kept of times, dates and volumes of water pumped from the bund. All chemicals and oils were securely stored and bunded onsite, with no sign of spills or leakage. Stormwater filters were tidy and in place. Spill kits were positioned at various locations and were well stocked. There were no issues with dust or air discharges noted at the time of the inspection.

12 May 2022

The yard was tidy and well maintained. Storm water drains filter were clean and tidy. Spill kits were located in various, easily accessible positions around the site. A bunded diesel tank was being installed onsite, this contained a pad with a small bunding for minor spills. All chemical sheds were locked with the contents well labelled and listed in the sheds. The copper liquor bunded tank area was clean and tidy, with a good record of the drain being emptied.

8.2.2 Results of discharge monitoring

Stormwater from the Nexans site discharges to the industrial stormwater drain underneath Connett Road at two points; the one from the main loading area on the western side of the plant is opposite the entrance to Mainland Products; the other, from the remainder of the site, is about 100 metres further down Connett Road. The uppermost monitoring point for the eastern catchment (STW001025) is unaffected by other discharges. There was no discharge occurring when the site was visited during 2021-2022.

8.3 Evaluation of performance

A tabular summary of Nexans' compliance record for the year under review is set out in Tables 18 and 19

Table 18 Summary of performance for Nexans consent 4497-3

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2.	Limits stormwater catchment area	Inspection	Yes
3.	Above ground hazardous substance storage to be bunded and not to drain directly to stormwater catchment	Inspection and discussion with consent holder	Yes
4.	Limits on chemical composition of discharge	No discharge during sampling runs during monitoring period	N/A
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water and sediment sampling. Biomonitoring	Yes
5.	Maintenance of a contingency plan for action to be taken to prevent spillage	Review of documents provided. Plan on file dated July 2018	Yes
7.	Maintenance of stormwater management plan	Plan on file	Yes
3.	Written notification required regarding changes to activities at the site	Inspection and discussion with consent holder	Yes
9.	Provision for consent to lapse if not exercised	Consent has been exercised	N/A
10.	Optional review provision re environmental effects and notifications of changes (S.C.9)	No further opportunity for review prior to expiry	N/A
his	erall assessment of consent compliant consent erall assessment of administrative per	ce and environmental performance in respect of	High High

N/A = not applicable or not assessed

Table 19 Summary of performance for Nexans consent 5417-2

Pu	Purpose: To discharge emissions to air				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adoption of best practicable option to minimise effects	Inspections and liaison with consent holder	Yes		

Purpose: To discharge emissions to air				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
2.	Discharge not to give rise to offensive, objectionable or toxic dust or odour	Inspections	Yes	
3.	Control of emissions of CO, NO_2 , PM_{10} and SO_2	Not assessed during review period	N/A	
4.	Control on other emissions	Not assessed during review period	N/A	
5.	Consent holder to consult Council prior to making alterations to plant, processes or operations	Inspections and liaison with consent holder	Yes	
6.	Consent holder to maintain record of complaints	Not requested during review period	N/A	
7.	Report reviewing technological advances in the reduction and mitigation of emissions due in November each year	Report received November 2022	Yes	
8.	Optional review provision re environmental effects	No further option for review prior to expiry	N/A	
Overall assessment of consent compliance and environmental performance in respect of this consent			High	
Ov	erall assessment of administrative per	High		

N/A = not applicable or not assessed

During the year, Nexans New Zealand demonstrated a high level of environmental and administrative performance and compliance with their resource consents as defined in Appendix II.

9 OMV New Zealand Ltd

9.1 Site description

OMV New Zealand Ltd (OMV) currently manages a 1.08 ha site as a storage facility to support the offshore Maari Field.

The site is used for the storage and dispatch of off-shore equipment between drilling campaigns. This equipment includes chemicals and drill pipes. The drill pipes are either new, prior to them being prepared for use, or unused pipes returned from the off-site drilling activities. There is no pipe washing, preparation, or reconditioning of used pipes carried out at the site. Any equipment returned from off-shore is washed off-shore if required, and is clean when it is returned to the site.

Chemicals, of limited quantities and classes, are stored either under cover in the warehouse buildings, or in bunded shipping containers in the yard, prior to dispatch (Photo 16).



Photo 16 Bunded chemical storage, May 2022

Stormwater drains via a three-stage oil separator to the Bell Block industrial drainage system.

Prior to OMV leasing the site, the entire property had been developed, with the site being roofed, tar-sealed or metalled.

A wash facility is situated on the southern side of the site, and an automatic diverter valve diverts the discharge of washings to sewer via an oil separator when the wash pad is in use. Stormwater from the washing area, when the wash pad is not in use, continues to be directed to the Mangati Stream via an older oil separator. The wash pad is now permanently diverted to sewer.

OMV holds water discharge permit **3913-3** to cover the discharge of stormwater from an industrial site into an unnamed tributary of the Mangati Stream. The consent contains the standard special consent conditions as given in Section 1.2 with one modified condition that places a limit on the BOD concentration in the discharge.

A copy of this permit is attached to this report in Appendix I.

9.2 Results

9.2.1 Inspections

Two inspections were conducted during the monitoring period, on 7 October 2021 and 12 May 2022.

7 October 2021

The site was clean and tidy with no yard traffic observed.

12 May 2022

The site was clean and tidy. Drains and sumps were clear with no sign of contaminants. The quarantine area was well organised clean, clear and tidy. The bunded area was tidy and organised, however it was noted that two of the bunded containers needed attention, one was full of water and the other was missing the plug that holds the water.

9.2.2 Results of receiving environment monitoring

OMV's primary monitoring site is immediately below the oil separator that treats the site stormwater before it is discharged (IND002013). Samples were collected twice during the year. The results from chemical monitoring at this site are given in Table 20.

Table 20 OMV stormwater sampling results, site IND002013

Parameter	Unit	7 October 2021	21 March 2022	Consent limits
Temperature	°C	14.3	18.1	-
рН	рН	6.4	6.5	6-9
Conductivity	mS/m	3.5	1.2	-
Suspended solids	g/m³	8	27	100
Turbidity	FNU	7.9	3.5	-
COD	g O ₂ /m ³	34	20	
TBOD ₅	g O ₂ /m ³	5.3	2.6	16
Total hydrocarbons	g/m³	<0.7	<0.7	15*
NH ₃	g/m³	0.000145	-	-
NH ₄	g/m³	0.21	0.059	10

^{*}Hydrocarbons measured in place of oil & grease

The sampling showed that OMV continue to demonstrate good compliance with consented limits in the discharge. Suspended solids and ammoniacal nitrogen (NH₄) concentrations were consistently low for the duration of the monitoring period.

9.3 Evaluation of performance

A tabular summary of OMV's compliance record for the year under review is set out in Table 21.

Table 21 Summary of performance for OMV consent 3913-2

Pu	Purpose: To discharge stormwater from an industrial site into an unnamed tributary of the Mangati Stream				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes		
2.	Limits stormwater catchment area	Inspection	Yes		
3.	Limits on chemical composition of discharge	Sampling	Yes		
4.	Clear and safe all-weather access point for discharge sampling to be maintained	Sampling	Yes		
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Inspections and sampling	Yes		
6.	Maintenance of a site contingency plan	Updated plan received August 2019	Yes		
7.	Maintenance of stormwater management plan	Liaison with consent holder	Yes		
8.	Notification required regarding changes to activities at the site	Inspection and liaison with consent holder	N/A		
9.	Optional review provision re environmental effects	Next opportunity for review June 2026	Yes		
coı	Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent				

N/A = not applicable or not assessed

During the year, OMV New Zealand Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

10 Schlumberger New Zealand Ltd

10.1 Site description

Schlumberger New Zealand Ltd (Schlumberger) provides services to the oil production industry, and stores a range of hazardous substances in enclosed areas of the site (Photo 17). Washwater containing drilling mud and occasionally oil residue from down-hole tools occurs onsite, and this water is discharged to the stormwater system following treatment in an onsite interceptor.

The wash area is housed within a building that also contains the paint, waste, oil, and chemical storage areas (Photo 18). The floors within this building all drain to a common 1.5 m³ capacity sealed sump. The liquid collected in this sump can either be removed by a contractor for appropriate off-site disposal, or be pumped to the stormwater drainage system via an oil separator, which removes the oily waste and suspended solids from the effluent stream.



Photo 17 Schlumberger yard and lay dawn area, October 2019

Late in the 2013-2014 year Schlumberger acquired the MI Swaco New Zealand site, with consents being transferred to Schlumberger on 13 May 2014. This includes the operation of a Liquid Mud Plant (LMP) and a warehouse/storage facility.

Activities at the site involve the mixing of synthetic based muds to be used in hydrocarbon exploration, and storage of chemicals to be used in the mixing operations. The LMP comprises a series of tanks of up to 10.9 m in height that are used to mix up the drilling mud. Once mixed, the mud is tankered from the site. The LMP area is located outdoors and all stormwater and potential contaminants are captured and contained within the surrounding bunded area. All stormwater discharged from the bunded LMP area is treated via an interceptor.

The adjacent site contains a large outdoor laydown area and large warehouse/ workshop building. Sea transport containers containing flexitank bladders of synthetic fluid are stored in this laydown area pending the availability of storage space in the LMP area. The sea containers are transferred by swing-lift transporter to the bunded loading/unloading bay alongside LMP when the synthetic fluids are required for use.



Photo 18 View of wash bay, October 2019

The site is manned at all times when the mixing of chemicals occurs in the LMP, which minimises the potential of a spill occurring unnoticed. Sandbags and spill kits are also located on the site for use in the event of a spill to contain liquid chemicals and to place over stormwater drains to prevent discharge from the site

Schlumberger holds discharge permit **6032-1** to discharge treated wash water and stormwater from a storage and maintenance premises for oil field exploration equipment into the Mangati Stream. The Company also holds discharge permit **5987-1** to discharge treated stormwater from a synthetic LMP and storage site into the Mangati Stream, although this consent is in the process of being combined with 6032-1 to cover the entire site.

Copies of both permits are attached to this report in Appendix I.

10.2 Results

10.2.1 Inspections

Two routine inspections were conducted at the site during the monitoring period, on 16 November 2021 and 12 May 2022.

16 November 2021

There was no vehicle activity at the site and no sign of sediment or contaminants tracking offsite. The vehicle wash bay was clean and tidy. The laydown areas were clear with all chemicals appropriately bunded and stored. Drains and sumps were clear, with no hydrocarbon sheens visible. The mud tanks storage area was clean and the bunding was intact.

12 May 2022

The site was clean and tidy with minimal yard traffic. The mud tank bay was clean and tidy with spill kits easily accessible. The washdown bay was also clean and tidy. Drains and sumps were clear with no sign of contaminants.

10.2.2 Results of discharge monitoring

The site is graded such that the majority of the stormwater from the consented LMP and office complex area exits the site at the southwest corner. This is monitored at STW002071. The discharge flows through a stormwater pipe passing through the rest of the Schlumberger site (site STW001056).

Samples were collected twice from STW001056 and once from STW002071.

The results from chemical monitoring at site STW001056 are given in Table 22, and the results from the chemical monitoring at site STW002071 are given in Table 23.

Table 22 Schlumberger stormwater sampling results, site STW001056

Parameter	Unit	16 Nov 2021	21 March 2022	Consent limits
Temperature	°C	18.3	15.8	-
рН	рН	6.1	6.7	6-9
Conductivity	mS/m	8.3	4.4	-
Suspended solids	g/m³	5	66	100
Turbidity	NTU/FNU	5.9	15.5	-
COD	g O ₂ /m³	16	24	-
Total hydrocarbons	g/m³	<0.7	<0.7	15*
Nutrients				
NH₃	g/m³	-	0.000102	
NH ₄	g/m³	-	0.068	-
Metals (acid soluble)				
Copper	g/m³	-	<0.01	-
Lead	g/m³	0.000054	<0.002	-
Zinc	g/m³	-	0.06	-
Metals (dissolved)				
Copper	g/m³		0.0009	0.05
Zinc	g/m³	0.125	0.032	0.65

^{*}Hydrocarbons measured in place of oil & grease

Table 23 Schlumberger mudplant stormwater sampling results, site STW002071

Parameter	Unit	16 Nov 2021	Consent limits
Temperature	°C	18.3	-
рН	рН	6.1	6-9
Conductivity	mS/m	8.6	-
Suspended solids	g/m³	4	100
Turbidity	NTU/FNU	6.0	-
TBOD₅	g O ₂ /m ³	1.0	7
Total hydrocarbons	g/m³	<0.7	15*
Nutrients	utrients		
NH ₃	g/m³	0.000036	0.025

Parameter	Unit	16 Nov 2021	Consent limits
NH ₄	g/m³	0.064	-
Metals			
Copper (acid soluble)	g/m³	0.0047	-
Copper (dissolved)	g/m³	0.0043	0.05

^{*}Hydrocarbons measured in place of oil & grease

The results of sampling exhibited a high quality of the discharge from both parts of the plant. All results were within consented limits and expected ranges.

10.3 Evaluation of performance

A tabular summary of Schlumberger's compliance record for the year under review is set out in Tables 24 and 25.

Table 24 Summary of performance for Schlumberger consent 5987-1

Mangati Stream Means of monitoring during period under Complian			
	Condition requirement	review	achieved?
1.	Adoption of best practicable option to minimise effects	Inspection and liaison with consent holder	Yes
2.	Limit on stormwater catchment	Observation and liaison at inspection	Yes
3.	LMP discharge to be treated and managed as per stormwater management plan	Inspection and liaison with consent holder	Yes
4.	Limits on chemical composition of discharge	Discharge sampling	Yes
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes
6.	Preparation and maintenance of contingency plan re measures to prevent spillage or accidental discharge and avoid, remedy or mitigate effects	Updated plan received August 2019	Yes
7.	Preparation and maintenance of stormwater management plan re measures to minimise contaminants in the stormwater	Updated plan received August 2019	Yes
8.	Written notification required regarding changes to activities at the site	Inspection and liaison with consent holder	Yes
9.	Optional review provision re environmental effects or changes	Consent expired June 2020	N/A

Purpose: To discharge treated stormwate Mangati Stream	er from a synthetic liquid mud plant and storage sit	e into the
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative perf	ormance in respect of this consent	High

N/A = not applicable or not assessed

Table 25 Summary of performance for Schlumberger consent 6032-1

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Consent to be exercised in accordance with information submitted at application	Inspection and discussion with consent holder.	Yes
2.	Council to be advised in writing with assessment of effects prior to changes	Inspection and discussion with consent holder. No further changes	Yes
3.	Maintenance of plan for wash water treatment system	Updated plan received August 2019	Yes
4.	Maintenance of stormwater management plan	Updated plan received August 2019	Yes
5.	Limits on chemical composition of discharge	Sampling	Yes
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes
7.	Maintenance of a contingency plan for action to be taken to prevent spillage	Updated plan received August 2019	Yes
8.	Optional review provision re environmental effects and notifications of changes	Consent expired June 2020	N/A
9.	Prohibition of wastes containing degreasers, solvents or surfactants	Inspection and discussion with consent holder. Observations at sampling	Yes
his	s consent	pliance and environmental performance in respect of	High High

N/A = not applicable or not assessed

During the year, Schlumberger New Zealand Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consents as defined in Appendix II.

11 Tasman Oil Tools Ltd

11.1 Site description

Tasman Oil Tools Ltd (Tasman Tools) operates a 1.4 ha yard on De Havilland Drive for storage and maintenance of drill pipe, down-hole tools and other miscellaneous equipment used in the oil industry. New casing and drill pipe is cleaned to remove protective grease, which until recently contained some copper and zinc, and a high proportion of lead. Historically the wash water discharged to land and then flowed overland to an interceptor pit. Tasman Tools' yard is immediately upslope of the pipe yard of Greymouth Petroleum, where a similar activity is undertaken.

Washing is now undertaken in a roofed wash pad and directed to a three-stage oil separator and then to trade waste. Occasionally larger items are washed outdoors, however this requires notification to the Council prior to commencement.

Stormwater from the site is collected in open perimeter drains, treated in a three stage interceptor and setting pond, and then directed to the Mangati Stream (Photo 19).



Photo 19 Sediment controls on Tasman Tools' perimeter drain, September 2020

The discharge from the settling pond enters a common open stormwater drain that also receives stormwater from the adjacent properties of First Gas and Greymouth Petroleum. The drain reaches the Mangati Stream about 250 m below De Havilland Drive.

Improvements made at the site include the construction of a roofed wash pad, the installation of a three-stage oil separator to collect and treat equipment washings, the connection of the wash pad to trade waste sewer, the installation of a large shipping container to house oils and chemicals, and the installation of a paint locker.

Larger items are washed outside on a purpose built pad where the wash water is captured and directed to trade waste.

Due to elevated levels of copper being found in the stormwater discharged from the site, in April 2002 the Council investigated contaminant levels in soils on the site with samples taken from current and historical pipe storage areas and the gravelled pipe washing area. Although elevated levels of various metals were

found in the samples, the concentrations met the relevant industrial guideline levels. Stormwater sampling continued to indicate that there was a significant source of heavy metals on site due to historical activities and two possible conclusions were identified:

- A 'hot spot' containing a higher concentration of heavy metals was missed during the soil sampling exercise.
- Because the original source of heavy metals was from an historical activity that occurred in excess of five years ago, the loose surface soils containing the major portion of the heavy metals have been washed from the active areas of the site and had been retained in the settlement pond.

It was considered at that time, that the second conclusion was the more probable scenario and the accumulated sediment and sludge was removed from the settlement pond. Council has continued to monitor for the presence of copper, lead and zinc in the site stormwater discharge.

A contingency plan for spillage response is in place for the site, with the most recent document received in February 2018.

Tasman Oil holds water discharge permit **4812-2** to cover the discharge up to 112 L/s of stormwater including wash down water from a storage and maintenance yard for oil field drilling equipment into an unnamed tributary of the Mangati Stream. This consent contains the standard special conditions and four additional special conditions.

The permit is attached to this report in Appendix I.

11.2 Results

11.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period, on 10 September and 9 December 2021, and 2 February and 13 June 2022.

10 September 2021

The pipe rack wash pad area and the wash bay were both noted as requiring attention. Both areas had residue of oil/grease extending beyond the areas set-up to capture and treat contaminants. The site manager advised that the pipe rack wash pad had previously been identified as needing work to enlarge the pad and build walls at the ends in order to contain the washwater. The work weirs in the ring drain were working well and grasses in the drain were being maintained. The holding pond was discoloured but was not discharging. Grasses were evident downstream of the discharge point.

9 December 2021

The site was clean and tidy. It was noted that significant quantities of sediment were being captured before the pond and there was good vegetation growth below the discharge point.

2 February 2022

The pipe rack was in use with only water being used. The stormwater pond was half empty and contained clear water. Grasses were growing within the ring drain and no issues were noted with the stormwater system.

13 June 2022

The site was tidy with no issues noted. It appeared that all stormwater was being collected and directed to the treatment system. Stormwater was not discharging from the site at the time of inspection. Good bunding practices appeared to be in place with chemicals and drums stored appropriately.

11.2.2 Results of discharge monitoring

The primary monitoring site is at the discharge point from Tasman Tools' skimmer pit (site STW001057). There was no discharge from the site when visited during the 2021-2022 monitoring period.

11.3 Evaluation of performance

A tabular summary of Tasman Tools' compliance record for the year under review is set out in Table 26.

Table 26 Summary of performance for Tasman Tools consent 4812-2

Purpose: To discharge wash water and stormwater			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Consent to be exercised in accordance with information submitted in application, and conditions of consent	Inspection and discussion with consent holder	Yes
2.	Yard washing records to be kept and provided to Council on request	Not requested during period under review	N/A
3.	Council to be notified if yard washing more than 8 hours in any 7 days	No washing in the yard undertaken during monitoring period	Yes
4.	Council to be advised in writing with assessment of effects prior to changes	Inspection and liaison with consent holder. No changes	Yes
5.	Stormwater treatment system to be maintained satisfactorily	Inspection and liaison with consent holder	Yes
6.	Limits on chemical composition of discharge	Samples not collected during monitoring period	N/A
7.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes
8.	Maintenance of a contingency plan for action to be taken to prevent spillage	Plan last updated in February 2018	Yes
9.	Optional review provision re environmental effects and notifications of changes	No further provision for review	N/A
10.	Prohibition of wastes containing degreasers, solvents or surfactants	Inspection and discussion with consent holder. Observations at sampling	Yes
11.	Maintenance of stormwater management plan	Inspection and discussion with consent holder, and review of documentation on file	Yes
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			High High

N/A = not applicable or not assessed

During the year, Tasman Oil Tools Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

12 Tegel Foods Ltd – Feed Mill

12.1 Site description

The New Plymouth feed mill of Tegel Foods Ltd (Tegel) has been in operation on their 1.6 ha site on Paraite Road since 1968. Raw grain and supplements are processed into feed for central North Island divisions of the Company.

Raw materials are transported to the site by truck in bagged and bulk form, the largest component being various types of grain. Other raw materials are soft goods or feed supplements such as lime, meat and bone meals, broll, vitamins, and minerals. Liquids such as tallow, canola oil, or molasses are also used. The grain is ground and the meal is mixed and blended with various supplements and liquids according to requirements. The feed is then pelletised and bagged or stored in bulk, before being loaded onto trucks for dispatch.

Storage tanks for tallow (40 tonne), molasses (30 tonne), and canola oil (40 tonne) feed supplements are situated outside the mill. The "alimet" tank, in which the canola oil is stored, is situated within a bund. There is no bund around the tallow and molasses tanks owing to the high viscosity of the liquids. A dangerous goods store holds miscellaneous liquids such as weed sprays, paint and oils.

A grain storage facility is now operated by Tegel at a second site on Paraite Road opposite the original feed mill site. The grain is transported across the road to the feed mill as required. This site currently operates under permitted activity rules.

Tegel hold water discharge permit **2335-4** to discharge stormwater from a stock/poultry feed manufacturing site to the NPDC stormwater drainage network; and air discharge permit **4038-6** to cover the discharge of emissions into the air from the milling and blending of grain and/or animal meals together with associated activities.

Copies of both permits are attached to this report in Appendix I.

12.2 Results

12.2.1 Inspections

Four routine inspections were conducted during the monitoring period, on 10 September and 7 December 2021, and 4 March and 20 June 2022.

10 September 2021

The site in general was tidy and site sweeping had continued through lockdown. Tegel Staff explained that the need for training of staff had been identified as being required to ensure all staff were minimising tracking of product from the sheds, this was being undertaken. The area around the silos was identified as another area where training was required. The drain wardens were in good working order. No odour offensive or objectionable were detected around the site.

7 December 2021

The site was clean and tidy at the time of the inspection, with no significant issues noted.

4 February 2022

Product was noted around the site from vehicle tracking, as well as debris accumulating in corners. The drain wardens did not appear to be full and were being maintained. The stormwater interceptor unit was set to manual and was in the off position as waterblasting had recently been undertaken nearby.

20 June 2022

The site was tidy in general, with maintenance schedules being maintained to sweep product off the roadways. The filter bags within the stormwater sumps appeared to be in good order, however one bag was sitting in water and it was noted that this should be raised. Best practice appeared to be in place with shed entrances free of product and no vehicle tracking evident.

12.2.2 Results of discharge monitoring

Stormwater from the Tegel feed mill site discharges to the NPDC network and then to the NPDC wetlands. The stormwater enters the networks at two points; one is on Paraite Road and the other is via the central drain. The primary monitoring site is at a manhole over the stormwater drain at the northern entrance to the mill from Paraite Road (site STW001015). The site is not influenced by discharges from other sources.

The site was sampled once during the monitoring period, the results are given in Table 27.

Table 27 Tegel Feed Mill stormwater sampling results, site STW001015

Parameter	Unit	21 March 2022	Consent limits
Temperature	°C	16.3	-
рН	рН	6.8	6-9
Conductivity	mS/m	1.6	-
Suspended solids	g/m³	32	100
Turbidity	NTU/FNU	3.6	-
COD	g O ₂ /m³	28	-
TBOD ₅	g O ₂ /m³	11	25
Total hydrocarbons	g/m³	<0.7	15*
Nutrients			
NH ₃	g/m³	0.00031	-
NH ₄	g/m³	0.162	-
DRP	g/m³	0.088	-

^{*}Hydrocarbons measured in place of oil & grease

All parameters were within consented limits and historical ranges for the monitoring period.

12.2.3 Air inspections

The inspections focus on assessing the relevant emission sources to air particularly:

- the cyclonic dust extraction systems;
- the boiler and exhaust gas stack;
- general processing areas within the plant;
- raw and finished material storage areas (including the main silos);
- and conveyance system within the factory.

In addition to this any changes to the mill which could have an effect upon local air quality were also checked.

The feed mill site was inspected on 10 September and 7 December 2021, and 4 March and 20 June 2022.

The site was inspected in a variety of wind and weather conditions. During the period under review, no visible emissions were found from the emission abatement equipment, the processing buildings or the dry goods/grain storage sheds at any of the inspections. No issues were noted with regards to dust.

12.2.4 Deposition gauging

Many industries emit dust from various sources during operational periods. In order to assess the effects of the emitted dust, industries have been monitored using deposition gauges.

Deposition gauges are basically buckets elevated on a stand to about 1.6 m. The buckets have a solution in them to ensure that any dust that settles out of the air is not re-suspended by wind.

Guideline values used by the Council for dust deposition are 4 g/m²/30 days or 0.13 g/m²/day deposited matter. Consideration is given to the location of the industry and the sensitivity of the surrounding community, when assessing results against these values.

Deposition gauging is carried out triennially at the sites, this was undertaken during the 2021-2022 period, and the results are presented in Table 28 with the deposition gauges' locations shown in Figure 4.



Figure 4 Location of Tegel feed mill's deposition gauges

Table 28 Air deposition results for Tegel feed mill, 9 December 2021

Site	Air deposition weight	Number of days	Particulate deposited	Volume air deposition samples
	g	days	g/m²/d	L
AIR009101	0.0459	20	0.07	2.8
AIR009102	0.0256	20	0.04	2.6
Consent limits	-	-	0.13	-

The deposition gauging results did not exceed the consent limit of 0.13 g/m²/day at either site. No dust complaints were received during the gauge deployment.

12.3 Evaluation of performance

A tabular summary of Tegel's compliance record for the year under review is set out in Tables 29 and 30.

Table 29 Summary of performance for Tegel consent 2335-4

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects on the environment, particularly with respect to BOD	Inspection and discussion with consent holder	Yes
2.	Limits stormwater catchment area	Inspections	Yes
3.	Limits on chemical composition of discharge	Sampling of discharges	Yes
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes
5.	Wastewater tank to be replaced with trade waste connection by 30 November 2014	Installation complete	Yes
6.	Provision of performance based improvement programme by 1 April 2014	Received July 2014	Yes
7.	Performance report to be provided by 1 July each year	Received	Yes
8.	Maintenance of a contingency plan for action to be taken to prevent spillage	Up-to-date as of February 2018	Yes
9.	Prepare and maintain stormwater management plan	Updated plan received September 2022	Yes
10.	Written notification required regarding changes to activities at the site	No changes during monitoring period	Yes
11.	Optional review provision re environmental effects	Next opportunity for review June 2023, recommendation attached in Section 17.6	N/A
this	consent	ce and environmental performance in respect of	High High

N/A = not applicable or not assessed

Table 30 Summary of performance for Tegel's consent 4038-6

Purpose: To discharge emissions into the air from the milling and blending of grain and/or animal meals together with associated activities

togetner with associated activities			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to prevent or minimise effects on the environment	Inspection and discussion with consent holder.	Yes
2.	No alterations that might change the nature/quantity of discharge without prior consultation with Council	No changes during monitoring period	Yes
3.	Maintenance of plan to prevent accumulation of dust in stormwater catchment	Inspection and discussion with consent holder	Yes
4.	Limit on point source particulate emissions (125 mg/m³)	Not assessed during monitoring period	N/A
5.	Limit on dust deposition beyond boundary (4.0 mg/m²/day)	Deposition gauging indicated compliance	Yes
6.	Limit on boundary suspended particulates (3 mg/m³)	Not assessed during monitoring period	N/A
7.	Keep, and make available, records of all dust and smoke incidents	Inspection of records and discussion with consent holder	Yes
8.	Clearance of accumulated dust	Inspection	Yes
9.	Optional review provision re environmental effects	Consent has expired	N/A
thi	s consent	ce and environmental performance in respect of	High High
Ov	erall assessment of administrative per	formance in respect of this consent	

N/A = not applicable or not assessed

During the year, Tegel Foods Ltd (Feed Mill) demonstrated an overall high level of environmental performance and a high level of administrative performance with their resource consents as defined in Appendix II.

13 Tegel Foods Ltd – Poultry Processing Plant

13.1 Site description

Tegel Foods Ltd (Tegel) operates a poultry processing plant on Paraite Road in the south-east corner of the Bell Block industrial area. The plant processes, on average, 65,000 birds per day, but has the capacity to process 105,000 per day.

Poultry are delivered in plastic crates to the hanging area where they are hung on a chain line, in a semienclosed area under a roof with two exhaust fans discharging to the atmosphere. Slaughter is accomplished via stunning and bleeding, and then the carcasses are scalded and plucked. The chickens then enter a primary processing stage where they are prepared to a 'dressed' stage prior to secondary processing or alternatively chilling and dispatch as whole chickens. The refrigeration system in place utilises ammonia as a coolant replacing a carbon dioxide based system. Primary and secondary processed chickens are chilled and frozen on site before being moved off site for storage.

All materials to be rendered, including feathers, are transferred by screw conveyer into trucks and removed off site to Taranaki By-Products Ltd for further processing. Blood is pumped to a holding tank prior to discharge.

Wastewaters such as cooling water, blowdown, and process water, along with truck wash water are directed to trade waste sewer. Modifications have been made to divert runoff from the live bird reception area and yard to the trade waste system also. Areas with potential for spillage of chemicals have been bunded. Spill containment equipment is on site.

Stormwater from a developed area of 1.7 ha discharges to the Mangati catchment at two points. Drainage from most of the site flows to a small wetland on the southern side of the plant that feeds into the Mangati Stream. Drainage from the relatively small remainder, including the car park and part of the load-out area in the north western area of the site, flows into the NPDC De Havilland Drive stormwater drain.

Major construction activities occurred at the site during the 2002-2003 monitoring period. In large, upgrades have been driven by the relocation of processing activities from the Te Horo region to the New Plymouth site. New structures included a new crate wash, concreting in the area around the ammonia plant, and 5,000 m² of roofing, which covers the bird reception area, renderable waste storage area, and areas that flowed to both the stormwater and trade waste catchments. A new chlorinated water tank has been installed within a bunded area that drains to trade waste.

Additional expansions at the site have also included a new cool store and load out area, and a sausage plant.

Contingency plans in place for the site include a contingency plan in case of spillage, a contingency plan for burial to land, and a contingency plan for discharge to air.

Discharge to water

Tegel hold water discharge permit **3470-4** to discharge stormwater from a poultry processing plant site to the NPDC drainage network; and discharge permit **7389-1** to cover the discharge of stormwater from a poultry processing plant via a wetland into the Mangati Stream.

Discharge to air

Tegel holds air discharge permit **4026-3** to discharge emissions into the air from the processing of animal matter and associated processes.

Discharge to land

Tegel hold discharge permit **5494-2** to discharge poultry processing wastes by burial into land in the vicinity of the Mangati Stream in emergency circumstances only.

Copies of all permits are attached to this report in Appendix I.

13.2 Results

13.2.1 Inspections

Four routine inspections were conducted during the monitoring period, on 10 September and 7 December 2021, and 4 February and 20 June 2022. These inspections focused on the discharge of stormwater (consents 3470-4 and 7389-1) and air discharges (consent 4026-3). The consent for the discharge of contaminants to land (5494-2) was not exercised during the period under review.

10 September 2021

Drain wardens were being maintained and appeared to be clean. The majority of the site that flows to De Havilland Drive is mostly roadway, this was clean and tidy. No visual effects were noted within the Mangati Stream.

7 December 2021

The site was tidy and clean and no issues or concerns were noted throughout the inspection. The stormwater sumps were being well managed and temporary repairs to leaks were under control, with no sign of discharges onto the site. It was noted that an old painted line, marking the point where discharges switch from trade waste to stormwater, could do with fresh paint. The wetland appeared in good order, the screen was clean and tidy, and the discharge clear with no effects noted downstream. The odour noted around the trade waste pond was distinct but not unpleasant and no odour was noted offsite.

4 February 2022

Wash water containing a high nutrient content was flowing down a building wall and onto the ground following damage from equipment hitting a trap that captures the leaks and directs these to trade waste. Previous leaks had dried in situ and were a reasonable distance from a nearby stormwater sump. Action to replace and repair the catch tray was underway, as well as steps to protect the tray so it would be protected from damage in future. The liquid that flowed onto the ground was to be cleaned up immediately. Another area where there was leakage from a building had been identified, and steps had been made to remedy this. The stormwater sumps were tidy and clean.

20 June 2022

In general the site was tidy and clean. The stormwater drain filters are being maintained and cleaned and appeared in good order. Work on the buildings that leak was ongoing. The majority of chemicals were bunded. Primary bunding was discussed in one area that discharges to trade waste. There was no discharge from site into the wetland. The wetland had a healthy appearance. It was noted that the central channel through the first section of wetland had all but disappeared as the flow-path of stormwater had changed and vegetation had grown in the channel. There was no visual impact of the discharge downstream of the processing plant. Eels were noted resting near the downstream outfall at De Havilland Drive. No odour was detected around the wastewater pond, nor offsite and downstream of the pond.

13.2.2 Results of receiving environment monitoring

13.2.2.1 De Havilland Drive stormwater discharges

Stormwater from the northern and eastern parts of the site is discharged via three lateral connections to NPDC's network on de Havilland Drive (STW001130, STW001129 and STW001128). A sample was collected from site STW001130 during the wet weather survey in March 2022, while the other sites were not discharging. Results are shown in Table 31.

Table 31 Tegel de Havilland Drive Pipe B stormwater sampling results, STW001130

Parameter	Description	21 March 2022	Consent limits
Temperature	°C	15.8	-
рН	рН	6.6	6-9
Conductivity	mS/cm	0.5	-
Suspended Solids	g/m³	30	100
Turbidity	NTU	7.4	-
TBOD ₅	g O ₂ /m³	1.0	15
Nutrients			
NH ₃	g/m³	0.000062	-
NH ₄	g/m³	0.052	-
DRP	g/m³	0.004	-

^{*}HC measured in place of oil & grease

The results show that the Tegel discharge to the de Havilland Drive stormwater network was of a consistently good standard, with all parameters measured within consented conditions.

13.2.2.2 Tegel wetland discharges to Mangati Stream

Site STW001053 is the point at which Tegel discharges stormwater to the polishing wetland. Stormwater from the site is screened and flows over a low weir and series of rip raps before entering the wetland. Samples are collected of the discharge as it flows over the weir due to access limitations.

The outlet from the wetland to the stream (site MGT000489) is considered to be the discharge point when assessing compliance with consent conditions. Comparison of results for this site with STW001053 allows for assessment of the treatment performance of the wetland.

Both sites were sampled once during the monitoring period. Results are shown in Table 32.

Table 32 Tegel stormwater and wetland sampling results, 21 March 2022

	Site	STW001053	MGT000489	
Parameter	Description	Tegel stormwater to wetland	Tegel wetland to Mangati Stream	Consent limits
Temperature	°C	15.5	15.8	-
рН	рН	7.0	6.8	6-9
Conductivity	mS/m	1.4	5.0	-
Suspended Solids	g/m³	8	5	100
DO	mg/L	-	8.31	

	Site	STW001053	MGT000489	
Parameter	Description	Tegel stormwater to wetland	Tegel wetland to Mangati Stream	Consent limits
	%	-	85	
Turbidity	NTU	2.4	2.6	-
COD	g O ₂ /m³	14	-	
CBOD	g O ₂ /m³	-	<1.0	-
TBOD ₅	g O ₂ /m ³	3.2	2.3	15
Nutrients				
NH ₃	g/m³	0.00083	0.00055	0.025
NH ₄	g/m³	0.30	0.31	-
DRP	g/m³	0.122	0.085	-

^{*}Hydrocarbons measured in place of oil & grease

The discharge from the wetland was observed to be within the consent limits for BOD, unionised ammonia, hydrocarbon, pH and suspended solids in all samples.

13.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 33 to 36.

Table 33 Summary of performance for Tegel consent 3470-4

Pui	Purpose: To discharge stormwater from a poultry processing plant site to NPDC's drainage network			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Adoption of best practicable option to minimise effects on the environment, particularly with respect to BOD	Inspection and discussion with consent holder	Yes	
2.	Limits stormwater catchment area	Inspection	Yes	
3.	Limits on chemical composition of discharge	Sampling and analysis of discharges	Yes	
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes	
5.	Provision of stormwater network analysis by 28 February 2014	Review of documents provided July 2014	Yes	
6.	Maintenance of contingency plan	Plan provided	Yes	
7.	Maintenance of and adherence to a stormwater management plan	Plan provided	Yes	

Pu	Purpose: To discharge stormwater from a poultry processing plant site to NPDC's drainage network				
	Condition requirement Means of monitoring during period under review		Compliance achieved?		
8.	Written notification required regarding changes to activities at the site	Inspection and discussion with consent holder. No changes occurred which may alter the nature of the discharge	N/A		
9.	Optional review provision re environmental effects and notifications of changes	Next opportunity for review June 2023, recommendation attached in section 17.6	N/A		
thi	erall assessment of consent compli s consent erall assessment of administrative	High High			

N/A = not applicable or not assessed

Table 34 Summary of performance for Tegel consent 7389-1

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2.	Limits stormwater catchment area	Inspection	Yes
3.	All stormwater directed through treatment system (wetland), and wetland to be maintained to ensure effective treatment	Inspection and discussion with consent holder	Yes
4.	Above ground hazardous substance storage to be bunded and not to drain directly to stormwater catchment	Inspection and discussion with consent holder	Yes
5.	Limits on chemical composition of discharge	Sampling and analysis of discharges	Yes
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Receiving water sampling	Yes
7.	Limit on filtered carbonaceous BOD change in stream (2 g/m³)	Receiving water sampling	Yes
8.	Wetland to be maintained to ensure maximum effluent treatment at all times	Inspection and discussion with consent holder and sampling	Yes
9.	Riparian fencing to be completed as per plan by 31 December 2010	Inspection by Council Land Management Officers	Yes
10.	Maintenance of a contingency plan for action to be taken to prevent spillage	Plan provided	Yes
11.	Maintenance of and adherence to a stormwater management plan	Plan provided	Yes

Pur	Purpose: To discharge stormwater from a poultry processing plant via a wetland into the Mangati Stream			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
12.	Written notification required regarding changes to activities at the site	Inspection and discussion with consent holder. No changes occurred which may alter nature of discharge	N/A	
13.	Optional review provision re environmental effects and notifications of changes	No further opportunity for review prior to expiry	N/A	
con	erall assessment of consent complian sent erall assessment of administrative per	ce and environmental performance in respect of this	High High	

N/A = not applicable or not assessed

Table 35 Summary of performance for Tegel consent 4026-3

Purpose: To discharge emissions into the air from the processing of animal matter and associated processes				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes	
2.	No alterations that might change the nature/quantity of discharge without prior consultation with the Council	Inspection and discussion with consent holder. Review of documents provided to the Council	N/A	
3.	Offensive and objectionable odours beyond boundary not permitted	Inspection and discussion with consent holder. Complaint response	Yes	
4.	No offal or blood to go to wastewater pond	Inspection and discussion with consent holder	Yes	
5.	Contingency plan to be maintained and regularly updated	Plan provided	Yes	
6.	Operation and maintenance plan re special conditions of consent and particular aspects of Tegel's activities	Plan provided	Yes	
7.	Optional review provision re environmental effects	Next opportunity for review June 2026	N/A	
thi	Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			

N/A = not applicable or not assessed

Table 36 Summary of performance for Tegel consent 5494-2

Purpose: To discharge poultry processing wastes by burial into land in the vicinity of the Mangati Stream in emergency circumstances only

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	To be exercised in emergency only, as confirmed by Council	Not exercised during period under review	N/A
2.	Details to be provided to Council prior to exercise of consent	Not exercised during period under review	N/A
3.	Adopt BPO to prevent or minimise adverse effects	Not exercised during period under review	N/A
4.	Burial trenches to be more than 25 m from any surface water body	Not exercised during period under review	N/A
5.	Base of burial trenches to be located above groundwater level	Not exercised during period under review	N/A
6.	Consent holder to maintain records of disposal	Not exercised during period under review	N/A
7.	Maintain and update a Burial Management Plan	Updated plan received August 2014	Yes
8.	Lapse of consent June 2032		N/A
9.	Optional review provision re environmental effects	Next opportunity for review June 2026	N/A
this	erall assessment of consent compliants consent erall assessment of administrative per	High High	

N/A = not applicable or not assessed

During the year, Tegel Foods Ltd – Poultry Processing demonstrated a high level of environmental and administrative performance and compliance with their resource consents as defined in Appendix II.

14 TIL Freighting Ltd (operating as MOVe Freight Ltd)

14.1 Site description

TIL Freighting Ltd (TIL) (operating as MOVe Freight Ltd), operates a truck depot from a 5.7 ha site from which goods for various industries are transported throughout the country. The site was established in 2005. The three primary industries using TIL's transport services are food and beverage, agriculture, and petroleum/gas exploration. Some of the materials handled or transported through the site are classified as hazardous substances and others, although not classified as hazardous substances, would result in adverse environmental effects if discharged to water.

The site straddles the Mangati Stream/Mangaone Stream catchment boundary, and therefore TIL holds consents to discharge stormwater in each of these catchments.

Activities in the Mangaone catchment include a container storage area, a truck parking area, a truck wash facility and Ross Graham Motors workshop.

The truck wash facility has a wash water separator, which directs stormwater into the stormwater system and any truck wash into the sewage system. The separator is a "Smart Valve", which works by directing all water from the truck wash pad to trade waste whenever it is in use (i.e. if any tap is turned on). While the truck wash is not in use, water is directed to stormwater after a certain amount of rainfall.

The truck park and container storage areas have sumps that collect stormwater, and direct it through a 300 mm pipe to the stormwater settlement pond. The pond, which is approximately 350 m² in area and 3 m deep, has an overflow outlet pipe. However, it was anticipated that the pond would be large enough for the stormwater to soak away, without overflows occurring.

The consent for this area was granted prior to the development of the site. At the time the consent was processed it was considered that, as the truck wash water is discharged to trade waste, and stormwater is directed to the stormwater settlement pond to soak away, there should be no direct discharge to surface water and therefore no adverse environmental effects were anticipated.

The eastern area of the site (approximately 2.60 ha) is piped to NPDC's reticulated stormwater system at three points, and discharges to the Mangati Stream via the NPDC's constructed wetland.

A large proportion of this area of the site is roofed (approximately 1.26 ha) (Photo 20) and the remainder is predominantly hard paved or metalled. Activities within the stormwater catchment include parking, loading, storage and heavy vehicle movements.

The stormwater discharges from three points, all of which contain a mixture of roof stormwater and yard stormwater. The northern catchment is predominantly leased, and contains KMC Engineering, the Coca-Cola distribution loading area and parking, and has a low traffic volume. It discharges to the NPDC system at Connett Road.

The central catchment is used for loading and storage, and has high heavy traffic volume. This area discharges to the NPDC system on Paraite Road in front of the loading tunnel. The southern catchment contains molasses storage and loading facilities, container storage, privately leased storage sheds and a wash bay used for cleaning imported containers to the standards required by the Ministry of Primary Industries (MPI). It is subject to a lower volume of heavy traffic movement and discharges to the NPDC system in front of the building leased by Turners and Growers.

TIL Ltd holds water discharge permit **7578-1** to cover the discharge of stormwater into the Mangati Stream; and discharge permit **6952-1** to cover the discharge of stormwater from a truck depot into and onto land in the vicinity of the Mangaone Stream in the Waiwhakaiho catchment.

Copies of both permits are attached to this report in Appendix I.



Photo 20 View inside the freight loading tunnel, May 2022

14.2 Results

14.2.1 Inspections

Three routine inspections were conducted at the site during the monitoring period, on 6 July 2021, and 4 May, 25 May and 14 June 2022.

6 July 2021

A follow-up inspection was conducted with John Fisher from Fishers Contracting who had been engaged by TIL to remediate the issues identified during the previous inspection which had resulted in an abatement notice. The four stormwater grates in the tunnel had been removed and replaced with full metal covers. As the drains only capture water from the roof of the tunnel building it was considered a better option would be to cover them fully rather than have open grates with spill covers and concrete nibs/bunding. The edges of each manhole cover would be filled with silicone to prevent any chance of spilled liquid entering the stormwater. The carpark had recently been swept, however there was some accumulation of sand in some areas of the gutter. This was due to cars being parked at the time of sweeping and some areas were not able to be reached, this would be manually shovelled by staff. The gutter leading to the tunnel was tidy and free of sand and the yard was also tidy. Filter socks had been installed on all open grated stormwater drains throughout the site yard. John advised that he was investigating an alternative system 'Enviropod', which would be easier to maintain than the current system. Two new spill kits were in place in the tunnel, they were well equipped and free of rubbish. Storage areas A and B still contained the green wheelie bin spill kit containers and they were not well equipped (some contained rubbish). The inspecting officer noted that having spill kits in a single colour throughout the site would enable them to be identified in times of crisis

and avoid them being mistaken for rubbish bins. The site was compliant with consent conditions at the time of the inspection and the issues identified in the abatement notice had been remediated.

4 May 2022

The site was busy with several trucks being unloaded by forklift. All freight was appropriately stored and in good condition with no sign of spills or leaks. As per the remediated works within the tunnel, the four stormwater covers have been changed to full metal to prevent any spillages from entering the stormwater system, however the inspecting officer noted that the third cover had been opened and left ajar, this needed to be closed off. Filter socks were observed on all open grated stormwater drains throughout the site yard, and these were in good condition. Red and yellow coloured spill kits were in position, well equipped, and readily available about site (Photo 21). Inspection of the carpark leading to the tunnel showed there to be the regular accumulation of sand in the gutter and the consent holder was asked to have this cleaned as per the agreement (staff member to shovel). The laydown area was tidy with no signs of sediment tracking offsite.

25 May 2022

It was reasonably quiet on site, with minimal truck movements. The sand that was present during the previous inspection had been cleaned, it was noted by the inspecting officer that this will be an ongoing maintenance task. One drain at the entrance to the tunnel and one drain at the exit required filter socks to be fitted. Broken pallets and bits of plastic wrap were noted in the tunnel, this was discussed with staff. In general the yard was clean, tidy and well maintained and compliant at the time of inspection.

14 June 2022

The site was reasonably quiet, with minimal truck movements. The yard was clean, tidy and well maintained with gutters tidy and free of sand. The tunnel was tidy and the storm water drains contained drain filter socks. However one drain at the entrance and one drain at the exit required socks to be fitted.



Photo 21 Spill kits

14.2.2 Results of receiving environment monitoring

There are no limits on the constituents of the discharge directed to the on-site stormwater pond that discharges onto and into land in the Waiwhakaiho/Mangaone Stream catchment, and so this is not currently programmed for sampling.

Two stormwater monitoring points have been identified on the TIL site for the areas of the site discharging to the Mangati Stream via the NPDC reticulated stormwater network and stormwater ponds.

Stormwater from the south eastern area of the site, which contains the rented storage sheds, the molasses storage and transfer area, the MPI wash pad, and Turners & Growers is sampled from a stormwater drain on Paraite Road in front of Turners & Growers' southern entrance (site, STW001133).

Stormwater from the north eastern area of the site, which contains the rest of the active areas including the freight tunnel, entranceways, and storage areas, is sampled from a stormwater drain on Paraite Road in front of the main truck exit (STW001132).

The sites were visited twice during the year, both during wet weather. The results from chemical monitoring at both locations are given in Table 37.

All results complied with relevant consent limits.

Table 37 TIL stormwater sampling results

	Site	STW001132 Main exit 7 Oct 2021 21 Mar 2022		STW0	Consent	
Parameter	Description			7 Oct 2021	21 Mar 2022	limits
Temperature	°C	14.4	nd	14.3	16.5	-
рН	рН	6.8	nd	6.9	6.9	6-9
Conductivity	mS/cm	3.8	nd	5.1	1.1	-
Suspended Solids	g/m³	20	nd	22	<3	100
Turbidity	FNU	15	nd	24	1.1	-
TBOD ₅	g O ₂ /m ³	4.0	nd	5	4.5	7
Total hydrocarbons	g/m³	<0.7	nd	0.7	VP	15*
DRP	g/m³	0.087	nd	0.054	0.029	-

^{*}Hydrocarbons measured in place of oil & grease, nd = no discharge, VP = visual pass

14.3 Evaluation of performance

A tabular summary of TIL's compliance record for the year under review is set out in Table 38 and 39.

Table 38 Summary of performance for TIL consent 7578-1

Pui	Purpose: To discharge stormwater to the Mangati Stream					
Condition requirement Means of monitoring during period under compliance comp						
1.	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes			
2.	Limits stormwater catchment area	Inspection and discussion with consent holder	Yes			

Pur	Purpose: To discharge stormwater to the Mangati Stream					
	Condition requirement	Means of monitoring during period under review	Compliance achieved?			
3.	Above ground hazardous substance storage to be bunded	Inspection and discussion with consent holder	Yes			
4.	Limits on chemical composition of discharge	Inspection and sampling	Yes			
5.	Discharge cannot cause specified adverse effects surface water	Observation at inspection	Yes			
6.	Maintenance of and adherence to contingency plan, reviews to be within two years	Plan dated September 2009 on file, update underway	Yes but plan due for update			
7.	Maintenance of and adherence to stormwater management plan, reviews to be within two years	Plan dated September 2009 on file, update underway	Yes but plan due for update			
8.	Written notification required regarding changes to activities at the site that alters nature of discharge	Inspection and discussion with consent holder. No changes	N/A			
9.	Provision for lapse of consent	Consent exercised	N/A			
10.	Optional review provision re environmental effects or notification of changes	No further opportunity for review prior to expiry	N/A			
	Overall assessment of consent compliance and environmental performance in respect of this					
	isent erall assessment of administrative perfol	rmance in respect of this consent	Good			

N/A = not applicable or not assessed

Table 39 Summary of performance for TIL consent 6952-1

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
	Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2.	Limits stormwater catchment area	Inspection and discussion with consent holder	Yes
	Provision of stormwater management plan prior to exercise of consent	Review of Council records and of any correspondence or documents submitted	Yes
	Provision of contingency plan prior to exercise of consent	Review of Council records and of any correspondence or documents submitted	Yes
	All stormwater to be treated in accordance with special conditions	Inspection	Yes

Purpose: To discharge stormwater from a truck depot into and onto land in the vicinity of the Mangaone Stream in the Waiwhakaiho catchment

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
6.	Design, management and maintenance of stormwater system to be as per application	Inspection and discussion with consent holder	Yes
7.	Above ground hazardous substance storage to be bunded	Inspection and discussion with consent holder	Yes
8.	Direct discharge to surface water prohibited. Thirty metre buffer zone between discharge to land and any surface water	Observation at inspection	Yes
9.	Provision for lapse of consent	Consent exercised	N/A
10.	Optional review provision re environmental effects	Consent has expired	N/A
this	erall assessment of consent compliance someont	High High	
Ove	erall assessment of administrative perfor	mance in respect of this consent	_

N/A = not applicable or not assessed

During the year, TIL Freighting Ltd demonstrated an overall high level of environmental performance and a good level of administrative performance with their resource consents as defined in Appendix II.

15 W Abraham Ltd

15.1 Site description

W Abraham Ltd (Abraham) operates a crematorium on Swans Road, Bell Block. Approximately 250 cremations occur per year in the gas-fired cremator. Abraham hold consent **7147-2** to discharge emissions into the air from the operation of the cremator. The permit is attached to this report in Appendix I.

The actual and potential adverse effects arising from the operation of the cremator are a result of the discharges to air from the incomplete combustion of natural gas, human remains and caskets. Hazardous air pollutants (HAP) discharged from cremators include carbon dioxide, carbon monoxide, water vapour, nitrogen oxides, inhalable particulate, hydrogen chloride (if plastics are present), trace metals including mercury, and other volatile organic compounds. The stack is approximately 20 m in height which enables effective dispersal of HAPs so that concentrations at ground level are not likely to exceed the relevant health-based assessment criteria at any location beyond the boundary of the Site.

Discharges may also result in amenity effects including visible smoke, odour and particulate deposition. At the time of consent application it was noted that the adverse amenity effects from the crematorium have the potential to be significant given the sensitive nature of crematorium activities. However, the location of the facility in an industrial area, the use of modern equipment, and proper operation means that any visible emissions are not likely to result in offensive or objectionable effects.

The adverse effects of cremator discharges can be minimised by in-stack instrumental monitoring and management of measures. The conditions of the consent set out monitoring and management measures including;

- Continuous instrumental monitoring of opacity and chamber temperature. The opacity meter is interlocked with a control system which switches off the burners when a certain threshold is
- Maintenance the flue, ducting and cremator to prevent 'leaking' of emissions.
- Removal of metal or PVC casket fittings and other prohibited items.
- Maintaining the chamber temperature above 750 °C.
- The chamber is interlocked so that caskets cannot be loaded until the correct temperature is reached.

Apart from the opacity meter there are no other in-stack instrumental monitors, however, these may be installed if Council has reason to believe the discharges are having a significant adverse effect.

15.2 Results

15.2.1 Inspections

Site inspections were conducted on 21 July, 22 November 2021, 21 February, and 13 June 2022 to assess compliance with the consent conditions. The inspections focused on visible emissions, odour, smoke opacity monitor reading, furnace temperature records, and the condition of the plant and environmental effects.

Visible emissions or odours were not detected upwind or downwind of the site during the routine inspections undertaken. Temperature and smoke opacity data indicated that the plant was being operated in a satisfactory manner. The site was fully compliant with the conditions of the consent at the time of the inspections.

15.3 Evaluation of performance

A tabular summary of Abraham's compliance record for the year under review is set out in Table 40 below.

Table 40 Summary of performance for Abraham consent 7147-2

Pui	Purpose: To discharge emissions to air from a crematorium					
	Condition requirement	Means of monitoring during period under review	Compliance achieved?			
1.	Adoption of best practicable option to minimise effects	Inspection and discussion with consent holder	Yes			
2.	Consent to be exercised in accordance with application documentation	Inspection and discussion with consent holder	Yes			
3.	Consultation required prior to making alterations to plant, process or operations	Inspections and liaison with consent holder	Yes			
4.	Notification prior to maintenance	Inspections and liaison with consent holder	Yes			
5.	Emissions maintained to a practicable minimum	Inspections	Yes			
6.	Cremator and ducting to be gas tight such that discharge of gases, other than through the stack, are prevented	Inspections	Yes			
7.	Flue and ducting to be adequately insulated to prevent specified effects	Inspections	Yes			
8.	Reasonable steps to reduce the quantity of materials combusted	Inspections	Yes			
9.	Consent holder to remove external casket fittings containing metals or PVC prior to combustion	Inspections and liaison with consent holder	Yes			
10.	Interlock required to prevent introduction of a coffin to the primary chamber unless secondary chamber temperature is above 750°C	Confirmed at inspection	Yes			
11.	Minimum stack height of 8 m	Inspection	Yes			
12.	Secondary chamber and it's outlet to be above 750°C, with steps to be taken to increase temperature if it falls below 750°C	Inspection and discussion with consent holder	Yes			
13.	Cremator shall have two combustion zones with specified minimum residence time and temperature in second chamber. As built diagrams and drawings demonstrating compliance to be provided prior to exercising consent	Built as proposed	Yes			
14.	Not more than two one-minute averages of the opacity readings shall exceed 20% obscuration per cremation	Inspection and discussion with consent holder	Yes			

Purpose: To discharge emissions to air from a crematorium					
Condition requirement	Means of monitoring during period under review	Compliance achieved?			
15. Limits maximum carbon monoxide concentration at outlet of secondary chamber (100 mg/m³)	Not monitored. Meter to be installed if adverse effects noted	Yes			
16. Opacity of exhaust gasses to be continuously monitored and recorded	Records checked at inspection	Yes			
17. Temperature of gasses to be continuously monitored and recorded	Records checked at inspection	Yes			
18. Maintenance of a schedule of maintenance and calibration	Inspection and discussion with consent holder	N/A			
19. Control of emissions of CO, NO_2 , PM_{10} and SO_2 to not exceed relevant air quality standards	Not monitored. Meter to be installed if adverse effects noted	N/A			
20. Control of other emissions so not hazardous, noxious or dangerous	Inspections	Yes			
21. Control of odours so not offensive or objectionable	Inspections, no complaints received	Yes			
22. Definition of offensive or objectionable		N/A			
23. Consent holder to undertake emission testing if requested	Not requested during period under review	N/A			
24. Consent holder to provide monitoring results on request	Not requested during period under review	N/A			
25. Review of consent conditions	Next opportunity for review in June 2026	N/A			
	nd environmental performance in respect of this	High			
consent Overall assessment of administrative perforn	nance in respect of this consent	High			

N/A = not applicable or not assessed

During the year, W Abraham Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

16 Mangati Stream

16.1 Water quality monitoring

Sampling of the Mangati Stream was scheduled to be carried out twice during wet weather and once during dry conditions. One wet weather survey was undertaken during 2021-2022.

Six sites on the Mangati Stream directly, and three sites on associated tributaries were monitored. These sites traverse the industrial area and include a point at the coast. The locations of the monitoring sites are shown in Figure 2, and are described in Tables 41 and 42.

Table 41 Mangati Stream sampling sites

Site	Location	GPS (NZTM)	Site code
Mangati above Tegel (poultry processing plant)	Below railway bridge approx 100 m above inflow from the wetland that receives Tegel discharge	E 1700106 N 5677953	MGT000485
Mangati below Tegel (poultry processing plant)	Approx 200 m below the wetland that receives Tegel's discharge and 40 m above De Havilland Drive	E 1700007 N 5678217	MGT000493
Mangati above Connett Road	Immediately above the end of Connett Road about 200 m below Greymouth Petroleum and Tasman Oil discharge	E 1699775 N 5678573	MGT000497
Mangati above industrial drain	Below pond 3 discharge and immediately above pond 4 and industrial drain direct discharges	E 1699596 N 5678691	MGT000500
Mangati below industrial drain	Approx 50 m below State Highway 3	E 1699513 N 5678787	MGT000512
Mangati at coast	Opposite NPDC sewage pumping station approx 30 m from high water mark	E 1699215 N 5680409	MGT000550

Table 42 Sampling sites in associated tributaries of the Mangati Stream

Site	Location	GPS (NZTM)	Site code
Mangati above J Swap	Unnamed trib. above the J Swap site. Immediately below the railway bridge and above piped section.	E 1700772 N 5677898	MGT000475
Mangati at J Swap riser from wetland	Piped tributary below the J Swap wetland. Accessed via base of wetland riser	E 1700503 N 5678062	MGT000479
Mangati below GPL/Tasman Tools	Piped tributary discharging immediately below GPL site. Accessed via Mangati walkway.	E 1699876 N 5678411	MGT000498

Sampling runs are always undertaken from the top towards the bottom of the catchment. There are occasionally anomalies in results between sites within sampling runs, owing to differences between velocity of the stream and movement downstream of samplers, and to changing flow conditions during and after rainfall events.

Table 43 Mangati Stream wet weather sampling results, March 2022

	Site	MGT000485	MGT000493	MGT000497	MGT000500	MGT000512	MGT000550	RFWP
Parameter	Description	Above industrial area	Above de Hav Dr	Above Connett Rd	Below Pond 3	Below wetlands	Mangati at Coast	Guidelines
Temperature	°C	15.7	16.3	16.7	16.9	17.0	16.9	-
рН	рН	7.1	7.3	7.1	7.1	7.2	7.1	6-9
Conductivity	mS/m	19.2	20.7	21.2	20.2	20.1	20.2	-
D.O.	mg/L	7.68	7.48	6.48	7.07	7.64	7.07	-
DO	%	78	77	67	74	80	74	-
Suspended solids	g/m³	91	11	5	3	3	3	100
Turbidity	FNU	51	4.6	3.5	2.5	2.8	2.5	-
CBOD	g O ₂ /m³	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	-
TBOD	g O ₂ /m³	6.6	1.1	1.0	0.8	1.0	0.8	-
Nutrients								
NH₃	g/m³	0.00067	0.00095	0.00077	0.00085	0.0009	0.00085	0.025
NH ₄	g/m³	0.174	0.164	0.200	0.196	0.187	0.196	-
NNN	g/m³	0.75	-	-	-	-	-	-
DRP	g/m³	0.020	<0.004	<0.004	<0.004	0.006	<0.004	-

Samples were collected from six sites in the Mangati Stream in wet weather with moderate flow conditions in March 2022. Results are displayed in Table 43.

Overall, the results are considered to provide a good indication of the range of water quality conditions in the stream at the various sites. Historical results have been biased towards wet weather conditions due to the fact that the Council has historically programmed three wet weather surveys and one dry weather survey per year.

Of particular note are the pH ranges, and the suspended solids and unionised ammonia (NH_3) concentrations, which were all within and/or well below the guidelines from the Regional Fresh Water Plan for Taranaki. This has not historically been the case for this catchment, which has a long and varied history with water quality.

It has been noted that BOD and nutrients at the upstream sites have been increasing over the past few years and this may be linked to agricultural activities in semi-rural upper reaches of the Mangati catchment. Slight elevations in nutrient concentration are routinely detected immediately below the outlet of the NPDC wetlands (MGT000512) indicating there are still contributions from the stormwater system of these contaminants.

Ammonia levels were not found to be particularly elevated in any of the surveys and none of the stream samples taken during period under review exceeded the 0.025 g/m³ RFWP unionised ammonia guideline limit for the protection of aquatic ecosystems. All ammoniacal nitrogen results were below the 0.9 g/m³ national guideline.

As with previous monitoring, phosphorus concentrations were found to generally decrease in a downstream direction indicating that rural activity is likely the biggest source.

There are several guidelines for zinc and copper for assessing water quality in terms of suitability for sustaining aquatic life. The United States Environmental Protection Agency (USEPA), in defining metals criteria for protection of freshwater aquatic life, has adopted the use of dissolved metals as most closely approximating the bio available fraction of metal in the water column. Previously, water quality criteria were based on total recoverable metal concentration.

The water quality criteria for dissolved copper and zinc, for water of hardness 50 g/m³ CaCO₃, are 0.005 g/m³ for Cu and 0.058 g/m³ for Zn respectively as a four day average, for chronic (long term) exposure. The corresponding criteria for acute (4-hour) exposure are 0.007 g/m³ for Cu and 0.064 g/m³ for Zn. Acute criteria only are applicable to wet weather sampling results, whereas both chronic and acute exposure criteria are applicable to dry weather sampling results.

Dissolved copper and zinc analyses were routinely carried out in the Mangati Stream, and results are displayed below in Tables 44 and 45.

Table 44 Dissolved copper concentrations in the Mangati Stream

	MGT000485	MGT000493	MGT000497	MGT000500	MGT000512	MGT000550
22 March 2022	0.0028	0.0008	0.0008	0.0009	0.0009	0.0012
10-yearly minimum	< 0.0005	< 0.0005	0.0008	0.0008	0.0008	< 0.001
10-yearly maximum	0.003	0.006	0.005	0.005	0.0119	0.006

Table 45 Dissolved zinc concentrations in the Mangati Stream

	MGT000485	MGT000493	MGT000497	MGT000500	MGT000512	MGT000550
21 March 2022	0.0064	0.0051	0.0051	0.0111	0.0106	0.0104
10-yearly minimum	< 0.0010	<0.005	0.0033	0.0035	0.0042	0.0042
10-yearly maximum	0.034	0.17	0.034	0.084	0.087	0.088

All six samples collected during the wet weather survey were below the USEPA chronic and acute exposure limits for both dissolved copper and dissolved zinc, and generally were close to the lowest concentrations found at any time within the last ten years.

16.2 Biological monitoring

Biological surveys produce a measure of time-integrated effects of discharges on water quality of a waterway, as opposed to the "snapshot" measure of a chemical sampling survey.

16.2.1 Macroinvertebrate surveys

The routine surveys for the period under review were carried out on 8 November 2021 and 10 March 2022. These were the 52nd and 53rd surveys for this programme. The reports for these surveys are available upon request. The "tributary" referred to in the reports is the main industrial storm drain (site MGT000503, sampled during chemical sampling surveys).

The surveys measure the "health" of the stream in terms of the presence and abundance of benthic macroinvertebrates (bottom dwelling life) and microflora. There are eight fixed sites, as described in Table 46 and Figure 5. The uppermost site is above the influence of any known industrial discharge. There are five sites above and three below the pond 3 discharge from the wetland.

Table 46 Biomonitoring sites in the Mangati Stream catchment

Site No	Site code	Grid reference	Location
А	MGT000488	E1700095 N5678043	Mangati Stream, 20 m upstream of swampy tributary
A2	MGT000490	E1700062 N5678084	Mangati Stream, 100 m downstream of swampy tributary
A1	MGT000491	E1700018 N5678166	Mangati Stream, 50 m upstream of De Havilland Drive
A3	MGT000497	E1699775 N5678573	Mangati Stream, 10 m above Connett Road
В	MGT000500	E1699596 N5678691	Mangati Stream above the industrial tributary, below wetland
D2	MGT000512	E1699513 N5678787	Mangati Stream, 20 m downstream SH3
Е	MGT000520	E1699385 N5679103	Mangati Stream, 400 m below Devon Road
F	MGT000550	E1699215 N5680409	Mangati Stream, 50 m above Bell Block beach

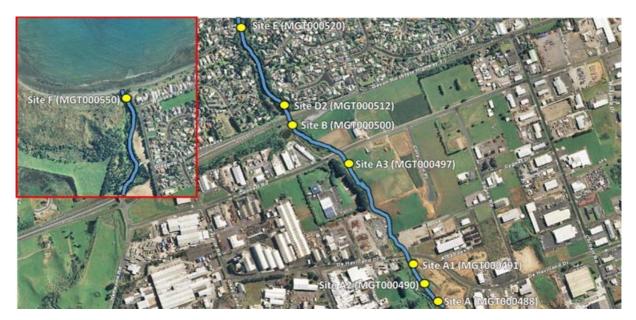


Figure 5 Macroinvertebrate sampling sites in the Mangati Stream

The reports assess the quality of the water in terms of macroinvertebrate diversities (number of taxa), Macroinvertebrate Community Index (MCI) values, and Semi-Quantitative Macroinvertebrate Community Index (SQMCI) values.

The MCI is a measure of the overall sensitivity of the macroinvertebrate community to the effects of organic pollution in stony streams. It is based on the presence/absence of taxa with varying degrees of sensitivity to environmental conditions. The SQMCI takes into account taxa abundance as well as sensitivity to pollution, and may reveal more subtle changes in communities, particularly if non-organic impacts are occurring. Significant differences in either the MCI or the SQMCI between sites indicate the degree of adverse effects (if any) of the discharges being monitored.

Past biological surveys of the Mangati Stream have recorded poor macroinvertebrate communities with limited numbers of taxa and low MCI values, particularly downstream of the industrial tributary. Small, slow flowing coastal streams draining farmland and industrial areas are not expected to support a large number of macroinvertebrate taxa. High MCI values are not expected in the lowland reaches of soft-bedded streams with farmland or urban catchments because not many high scoring, 'sensitive' taxa are suited to these conditions. However, the abundance and MCI values recorded at some sites downstream of the tributary have been unusually low even for these conditions. A summary and conclusions of the macroinvertebrate survey reports are given below.

16.2.1.1 November 2021 survey

Macroinvertebrate richness among the surveyed sites differed by up to 12 taxa though this was largely due to the low richness found at site D2. Excluding site D2 there was a more typical seven taxa richness difference between sites. The three upper sites (13-16 taxa) had moderate to moderately low taxa richnesses which were similar to historic medians. Sites A3 and B had low taxa richness (9-10 taxa) which were four to six taxa lower than historic medians. Site D2 have very low taxa richness of only 4 taxa, seven taxa lower than its historic median. Sites E and F also had moderately low to low taxa richness which were typical for the two most downstream sites.

MCI scores among sites varied by a significant 33 units (50-83 units), a greater range than was comparable with the preceding survey (21 units). MCI scores indicated that the surveyed reach was generally in either 'fair' or 'poor' health except for site D2 which was in 'very poor' health. There was a significant decline of 26 units from site A3 to site D2 and a significant improvement from site D2 to site E. All sites apart from site D2 had scores not significantly different to or higher than historic medians, with site D2 recording a score a significant 17 units below its historic median and 27 units less than the previous score. The very low MCI score and significant declines again indicate that site D2 had experienced poor preceding water quality. SQMCI scores indicated 'fair' health at the control site, site A, with 'poor' health at sites A2, A1, and F and 'very poor' health for the remaining sites. The SQMCI results were largely congruent with the MCI results with the main difference being sites A3, B and in particular site E, were in poorer health than what their MCI results indicated.

Overall, the results of the survey indicated that macroinvertebrate health was generally 'poor' for the surveyed sites in the Mangati Stream and that there was likely to have been discharge(s) below site B and/ or site A1 which had a significant negative impact on the macroinvertebrate communities present in the Mangati Stream.

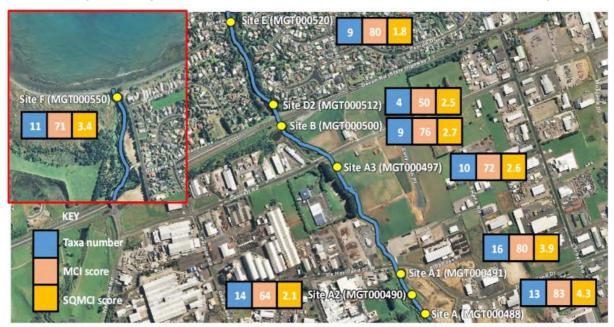


Figure 6 Taxa number, MCI scores and SQMCI scores for each site, 8 November 2021

16.2.1.2 March 2022 survey

Macroinvertebrate richness among the surveyed sites differed by up to 12 taxa, though this was largely due to the relatively high richness found at site A3. Excluding site A3 there was a more typical seven taxa richness difference among sites. The three upper sites had moderate to moderately low taxa richnesses which were slightly lower than historical medians. Sites A3, B and D2 had widely divergent taxa richness with site A3 recording a relatively high richness of 20 taxa while site B recorded only nine taxa and site D2 recorded 11. Current taxa richness only differed from historical medians by up to four taxa. Site D2 appears to have recovered from the very low taxa richness of only four taxa recorded in the previous survey. Sites E had a moderately low taxa richness equal to the historical median while site F had a low taxa richness slightly lower than its historical median.

MCI scores among sites varied by 14 units (64-78 units), a smaller than usual range compared with recent surveys. MCI scores indicated that the surveyed reach was in 'poor' health. There were no significant differences between the 'control' site, (site A), and any of the downstream 'impact' sites. There was also no significant declines between adjacent sites. All sites current scores were not significantly different to historic medians though four sites (sites A, A1, B and E) had scores significantly lower than the previous survey score

while site D2, which appeared to have been affected by a toxic discharge in the previous survey, had a score significantly higher than the previous survey. SQMCI scores indicated 'poor' health at all the sites except site A2, which had 'very poor' health. The SQMCI results were largely congruent with the MCI results except for site A2 that was in poorer health than indicated by its MCI results. Site A2 was also the only site to record a score that was significantly lower than its historical median with the five most downstream sites recording scores significantly higher than historical medians, and sites A and A1 not recording any significant difference. There was also a significant decline between sites A and A2 but not A1, though this site was close to registering a significant decline. The main reason for the decline in SQMCI scores was mainly due to a one abundance class increase in low scoring oligochaete worms and a two abundance class drop in 'moderately sensitive' *Paracalliope* amphipods at site A2. These change might be due to changes in water quality but were not in themselves conclusive enough to indicate that there had been poorer preceding water quality. In general SQMCI scores indicated better than usual macroinvertebrate health in the Mangati Stream.

Overall, the results of the survey indicated that macroinvertebrate health was generally 'poor' for the surveyed sites in the Mangati Stream. However, macroinvertebrate health was similar among the surveyed sites and in particular between the 'control' and 'impact' sites and there was not sufficient evidence to indicate that there had been any recent preceding poor water quality that had a significant effect on macroinvertebrate communities in the Mangati.

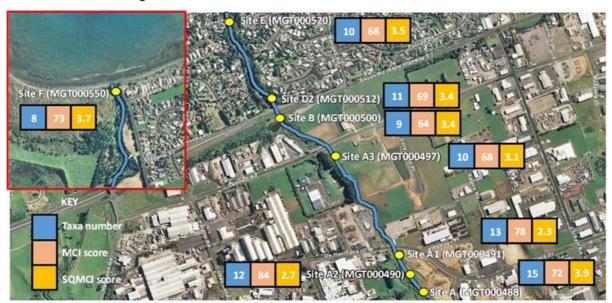


Figure 7 Taxa number, MCI scores and SQMCI scores for each site, 10 March 2022

17 Discussion

17.1 Discussion of site performance

A total of 50 compliance monitoring site visits were made to consent holders in the Mangati Catchment during the monitoring year under review.

None of the routine site inspections resulted in non-compliance and further enforcement action.

In general, sites were found to be relatively clean and well-maintained. General housekeeping, site sweeping, bunding requirements, drain cleaning and sediment controls were the most frequently mentioned areas requiring attention as noted by Inspecting Officers. Staff onsite were generally compliant and carried out required works in appropriate timeframes. Spills, sheens, and leaks noted onsite were dealt with at the time of each visit, and consent holders undertook upgrades and/or repairs to equipment and plant on each site as required. These works included installation of new sediment treatment systems, upgrading or replacing chemical storage facilities, and regular updating of site stormwater management and spill contingency plans.

The site performance for each of the consent holders during the year was of an acceptable standard, and is reflected in the low volume of public complaints and incidents recorded for this catchment (zero complaints related to the monitored consent holders received over the 12-month monitoring period).

17.2 Environmental effects of exercise of consents

Council water quality surveys of the Mangati Stream showed that the concentrations of contaminants were generally relatively stable throughout the length of the catchment. The primary contaminants of concern were metals and metalloids, nutrients (nitrogen and phosphorus), suspended sediment, and biological oxygen demand.

Metals and metalloid concentrations fluctuated throughout the catchment, and in-stream values were closely related to proximity to the source (site stormwater discharges). All results for the period under review were within acute and chronic toxicity guidelines.

Suspended solids, commonly sourced from yard dust and vehicle tracking, were the most frequently found contaminant of concern in site stormwater discharges, along with BOD concentrations. Samples collected from surface water sites, however, did not show any significant visual or chemical effects related to site discharges, indicating they were not having any measureable impact on the waterways. During the current monitoring period these parameters were elevated at the top of the catchment when compared to sites sampled within and below the industrial area. Turbidity and dissolved reactive phosphorus also showed this trend.

Biological monitoring found that historical trends continued for the current monitoring period. The majority of macroinvertebrate sites in the Mangati Stream continue to be classified as "very poor" to "poor".

17.3 Evaluation of performance

Tabular summaries of each consent holders' compliance record for the period under review are set out in their individual sections of this report.

17.4 Recommendations from the 2020-2021 Annual Report

In the 2020-2021 Annual Report, it was recommended:

1. THAT in the first instance, monitoring programmed for the consented activities of Barton Holdings Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.

- 2. THAT in the first instance, monitoring programmed for consented activities of First Gas Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 3. THAT in the first instance, monitoring programmed for the consented activities of Greymouth Petroleum Acquisitions Company Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 4. THAT in the first instance, monitoring programmed for consented activities of J Swap Contractors Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 5. THAT, in the first instance, monitoring programmed for consented activities of McKechnie Aluminium Solutions Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 6. THAT in the first instance, monitoring programmed for consented activities of New Plymouth District Council in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 7. THAT in the first instance, monitoring programmed for consented activities of Nexans New Zealand Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 8. THAT in the first instance, monitoring programmed for consented activities of OMV New Zealand Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 9. THAT in the first instance, monitoring programmed for consented activities of Schlumberger New Zealand Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021, and that the conditions for both consents be combined into consent 6032.
- 10. THAT in the first instance, monitoring programmed for consented activities of Tasman Oil Tools Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 11. THAT in the first instance, monitoring programmed for consented activities of Tegel Foods Ltd (feed mill) in the 2021-2022 year continues at a similar level to that programmed for 2020-2021, with the triennial deposition gauging next due in 2021-2022.
- 12. THAT in the first instance, monitoring programmed for consented activities of Tegel Foods Ltd (poultry processing plant) in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 13. THAT in the first instance, monitoring programmed for consented activities of TIL Freighting Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021, and that the programme be renamed MOVe Freight Ltd.
- 14. THAT in the first instance, monitoring programmed for consented activities of W Abraham Ltd in the 2021-2022 year continues at a similar level to that programmed for 2020-2021.
- 15. THAT should there be issues with environmental or administrative performance at any of the sites in 2021-2022, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

These recommendations were implemented as appropriate.

17.5 Alterations to monitoring programme for 2022-2023

In designing and implementing the monitoring programmes for air/water discharges in the region, the Council has taken into account:

- the extent of information already made available through monitoring or other means to date;
- its relevance under the RMA;
- the Council's obligations to monitor consented activities and their effects under the RMA;
- the record of administrative and environmental performances of the consent holder; and
- reporting to the regional community.

The Council also takes into account the scope of assessments required at the time of renewal of permits, and the need to maintain a sound understanding of industrial processes within Taranaki exercising resource consents.

It is proposed that the monitoring programmed for all consented discharges in the Mangati Catchment in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the sites in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2022-2023.

17.6 Exercise of optional review of consent

Resource consents 2335-4 and 3470-4 provide for an optional review of the consents in June 2023. Condition 11 and 9, respectively, allow the Council to review the consent, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment.

Based on the results of monitoring in the year under review, and in previous years as set out in earlier annual compliance monitoring reports, it is considered that there are no grounds that require a review to be pursued.

18 Summary of recommendations

- 1. THAT in the first instance, monitoring programmed for the consented activities of Barton Holdings Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 2. THAT in the first instance, monitoring programmed for consented activities of First Gas Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 3. THAT in the first instance, monitoring programmed for the consented activities of Greymouth Petroleum Acquisitions Company Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 4. THAT in the first instance, monitoring programmed for consented activities of J Swap Contractors Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 5. THAT, in the first instance, monitoring programmed for consented activities of McKechnie Aluminium Solutions Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 6. THAT in the first instance, monitoring programmed for consented activities of New Plymouth District Council in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 7. THAT in the first instance, monitoring programmed for consented activities of Nexans New Zealand Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 8. THAT in the first instance, monitoring programmed for consented activities of OMV New Zealand Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 9. THAT in the first instance, monitoring programmed for consented activities of Schlumberger New Zealand Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022, and that the conditions for both consents be combined into consent 6032.
- 10. THAT in the first instance, monitoring programmed for consented activities of Tasman Oil Tools Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 11. THAT in the first instance, monitoring programmed for consented activities of Tegel Foods Ltd (feed mill) in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 12. THAT in the first instance, monitoring programmed for consented activities of Tegel Foods Ltd (poultry processing plant) in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 13. THAT in the first instance, monitoring programmed for consented activities of TIL Freighting Ltd (MOVe freight) in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 14. THAT in the first instance, monitoring programmed for consented activities of W Abraham Ltd in the 2022-2023 year continues at a similar level to that programmed for 2021-2022.
- 15. THAT should there be issues with environmental or administrative performance at any of the sites in 2022-2023, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
- 16. That the option for a review of resource consents 2335-4 and 3470-4 in June 2023, as set out in conditions of the consents, not be exercised, on the grounds that the current conditions are adequate.

Glossary of common terms and abbreviations

The following abbreviations and terms may be used within this report:

Al* aluminium

Biomonitoring assessing the health of the environment using aquatic organisms

BOD biochemical oxygen demand. A measure of the presence of degradable organic

matter, taking into account the biological conversion of ammonia to nitrate

BODF biochemical oxygen demand of a filtered sample

BODCF filtered carbonaceous biochemical oxygen demand. A measure of the presence of

dissolved degradable organic matter, excluding the biological conversion of ammonia

to nitrate

Bund a wall around a tank to contain its contents in the case of a leak

CDS condensed distiller's syrup. A dark brown syrupy liquid with similar consistency to

runny honey, which is the liquid fraction that remains after grains (principally wheat) have been fermented in the process of producing bio-ethanol in combination with

yeasts and enzymes

COD chemical oxygen demand. A measure of the oxygen required to oxidise all matter in a

sample by chemical reaction

Condy conductivity, an indication of the level of dissolved salts in a sample, usually measured

at 25°C and expressed in mS/m

Cu* copper

DO dissolved oxygen

DRP dissolved reactive phosphorus

E.coli escherichia coli, an indicator of the possible presence of faecal material and

pathological micro-organisms. Usually expressed as colony forming units per 100

millilitre sample

Ent enterococci, an indicator of the possible presence of faecal material and pathological

micro-organisms. Usually expressed as colony forming units per 100 millilitre of

sample

FC faecal coliforms, an indicator of the possible presence of faecal material and

pathological micro-organisms. Usually expressed as colony forming units per 100

millilitre sample

Fresh elevated flow in a stream, such as after heavy rainfall

q/m³ grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is

also equivalent to parts per million (ppm), but the same does not apply to gaseous

mixtures

IBC 1,000 L intermediate bulk container

Incident an event that is alleged or is found to have occurred that may have actual or potential

environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does not automatically

mean such an outcome had actually occurred

Intervention action/s taken by Council to instruct or direct actions be taken to avoid or reduce the

likelihood of an incident occurring

Investigation action taken by Council to establish what were the circumstances/events surrounding

an incident including any allegations of an incident

Incident register
Incident register entry- an event recorded by the Council on the basis that it had

potential or actual environmental consequences that may represent a breach of a

consent or provision in a Regional Plan

L/S litres per second

MCI macroinvertebrate community index; a numerical indication of the state of biological

life in a stream that takes into account the sensitivity of the taxa present to organic

pollution in stony habitats

mS/m millisiemens per metre

Mixing zone the zone below a discharge point where the discharge is not fully mixed with the

receiving environment. For a stream, conventionally taken as a length equivalent to 7

times the width of the stream at the discharge point

NH₄ ammonium, normally expressed in terms of the mass of nitrogen (N)

NH₃ unionised ammonia, normally expressed in terms of the mass of nitrogen (N)

NNN total nitrate and nitrite nitrogen, expressed in terms of the mass of nitrogen (N)

NO₃ nitrate, normally expressed in terms of the mass of nitrogen (N)

NTU Nephelometric Turbidity Unit, a measure of the turbidity of water

O&G oil and grease, defined as anything that will dissolve into a particular organic solvent

(e.g. hexane). May include both animal material (fats) and mineral matter

(hydrocarbons)

Pb* lead

pH a numerical system for measuring acidity in solutions, with 7 as neutral. Numbers

lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For

example, a pH of 4 is ten times more acidic than a pH of 5

Physicochemical measurement of both physical properties (e.g. temperature, clarity, density) and

chemical determinants (e.g. metals and nutrients) to characterise the state of an

environment

RFWP Regional Freshwater Plan for Taranaki

Resource consents refer Section 87 of the RMA. Resource consents include land use consents (refer

Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits

(Section 14) and discharge permits (Section 15)

RMA Resource Management Act 1991 and subsequent amendments

SS suspended solids

SQMCI semi quantitative macroinvertebrate community index. MCI with taxa abundance

factored in

Swarf fine chips or filings of metal, stone, or other material produced by a machining

operation

Temp temperature, measured in °C (degrees Celsius)

Turb turbidity, expressed in NTU

USEPA The United States Environmental Protection Agency

XLPE cross linked polyethylene, which is hydronic tubing that is manufactured from

polyethylene plastic with a three dimensional molecular bond that is created within

the structure of the plastic

Zn* zinc

*an abbreviation for a metal or other analyte may be followed by the letters 'As', to denote the amount of metal recoverable in acidic conditions. This is taken as indicating the total amount of metal that might be solubilised under extreme environmental conditions. The abbreviation may alternatively be followed by the letter 'D', denoting the amount of the metal present in dissolved form rather than in particulate or solid form.

For further information on analytical methods, contact an Environment Quality Manager.

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Appendix I

Resource consents held by industries in the Mangati catchment (alphabetical order)

(For a copy of the signed resource consent please contact the TRC Consents department)

Water abstraction permits

Section 14 of the RMA stipulates that no person may take, use, dam or divert any water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or it falls within some particular categories set out in Section 14. Permits authorising the abstraction of water are issued by the Council under Section 87(d) of the RMA.

Water discharge permits

Section 15(1)(a) of the RMA stipulates that no person may discharge any contaminant into water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or by national regulations. Permits authorising discharges to water are issued by the Council under Section 87(e) of the RMA.

Air discharge permits

Section 15(1)(c) of the RMA stipulates that no person may discharge any contaminant from any industrial or trade premises into air, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising discharges to air are issued by the Council under Section 87(e) of the RMA.

Discharges of wastes to land

Sections 15(1)(b) and (d) of the RMA stipulate that no person may discharge any contaminant onto land if it may then enter water, or from any industrial or trade premises onto land under any circumstances, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising the discharge of wastes to land are issued by the Council under Section 87(e) of the RMA.

Land use permits

Section 13(1)(a) of the RMA stipulates that no person may in relation to the bed of any lake or river use, erect, reconstruct, place, alter, extend, remove, or demolish any structure or part of any structure in, on, under, or over the bed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Land use permits are issued by the Council under Section 87(a) of the RMA.

Coastal permits

Section 12(1)(b) of the RMA stipulates that no person may erect, reconstruct, place, alter, extend, remove, or demolish any structure that is fixed in, on, under, or over any foreshore or seabed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Coastal permits are issued by the Council under Section 87(c) of the RMA.

Name of Barton Holdings Limited

Consent Holder: PO Box 7021

Fitzroy

New Plymouth 4341

Decision Date: 31 May 2011

Commencement Date: 31 May 2011

Conditions of Consent

Consent Granted: To discharge stormwater into the Mangati Stream

Expiry Date: 1 June 2026

Review Date(s): June 2020 and/or within 3 months of receiving notification

under special condition 10

Site Location: 21 Paraite Road, Bell Block

Grid Reference (NZTM) 1699288E-5678418N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 0.464 ha.
- 3. By 31 July 2011 all stormwater from the loading/unloading areas shall be directed through the stormwater diversion system.
- 4. Any significant volumes of hazardous substances [e.g. bulk fuel, liquid stock feeds] on site shall be:
 - a) contained in a double skinned tank, or
 - b) stored in a dedicated bunded area with drainage to sumps, or to other appropriate recovery systems, and not directly to the site stormwater system.
- 5. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
oil and grease	Concentration not greater than 15 gm ⁻³
5 day total biochemical oxygen demand	Concentration not greater than 25 gm ⁻³
total available chlorine	1 gm ⁻³

This condition shall apply before entry of the treated stormwater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 6. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 7. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to a filtered carbonaceous biochemical oxygen demand in the Mangati Stream exceeding 2 gm⁻³.

Consent 7707-1

- 8. By 31 July 2011 the consent holder shall provide, and thereafter maintain, a satisfactory contingency plan. The contingency plan shall be adhered to in the event of a spill or emergency and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 9. By 31 July 2011 the consent holder shall provide, and thereafter maintain, a satisfactory stormwater management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor systems.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site www.trc.govt.nz.

- 10. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz.
- 11. This consent shall lapse on 30 June 2016, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 12. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2014 and/or June 2020; and/or
 - b) within 3 months of receiving a notification under special condition 10 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 6 April 2018

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of First Gas Limited Consent Holder: Private Bag 2020

New Plymouth 4342

Decision Date: 17 December 2015

Commencement Date: 17 December 2015

Conditions of Consent

Consent Granted: To discharge stormwater and vehicle wash water to the

Mangati Stream

Expiry Date: 1 June 2032

Review Date(s): June 2020, June 2026

Site Location: 38-48 Connett Road West, Bell Block

Legal Description: Lot 1 DP 12815 (discharge source and discharge point 3)

Lot 4 & 5 DP 12815 (discharge points 1 and 2)

Grid Reference (NZTM) 1699708E-5678603N (discharge point 1 to NPDC system)

1699629E-5678680N (discharge point 2 to receiving water

via NPDC ponds)

1699809E-5678503N (discharge 3 point to receiving water)

Catchment: Mangati

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

Page 1 of 3

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 4 hectares.
- 3. Within 12 months of the commencement of this consent the consent holder shall install a treatment system that will treat the vehicle wash water to meet the standards shown in the following table.

Constituent	Standard	
<u>Constituent</u>		
pН	Within the range 6.0 to 9.0	
suspended solids	Concentration not greater than 100 gm ⁻³	
oil and grease	Concentration not greater than 15 gm ⁻³	

4. Prior to leaving the property the constituents of all stormwater discharges shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
oil and grease	Concentration not greater than 15 gm ⁻³

- 5. The consent holder shall sample the treated wash water at intervals not exceeding 6 months and analyse the samples for pH, suspended solids, biochemical oxygen demand, filtered biochemical demand, and oil and grease within 24 hours of the sample being taken. The consent holder shall supply the results of the sampling required, to the Chief Executive of the Taranaki Regional Council within 20 working days of the sampling.
- 6. After allowing for reasonable mixing, within a mixing zone extending 30 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.

Consent 4780-2.0

- 7. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.
- 8. The site shall be operated in accordance with a 'Stormwater Management Plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
 - a) the loading and unloading of materials;
 - b) storage of hazardous chemical;
 - c) wash water sampling and analysis procedures;
 - d) scheduling of wash water sampling;
 - e) general housekeeping; and
 - f) management and maintenance of the vehicle wash bay treatment system.
- 9. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.
- 10. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2020 and/or June 2026; and/or
 - b) within 3 months of receiving a notification under special condition 9 above;
 - c) within 12 months of the installation of the vehicle wash treatment system.

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 20 June 2016

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of Greymouth Petroleum Acquisition Company Limited

Consent Holder: PO Box 3394

New Plymouth 4341

Decision Date (Review): 6 August 2020

Commencement Date

(Review):

6 August 2020 (Granted Date: 1 June 2010)

Conditions of Consent

Consent Granted: To discharge treated stormwater from a pipeyard used for

the cleaning and storage of casing and drilling equipment, and the storage of hazardous substances, onto and into land in circumstances where it may enter the Mangati Stream

Expiry Date: 1 June 2026

Site Location: 15 De Havilland Drive, Bell Block

Grid Reference (NZTM) 1699850E-5678410N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 1.5 hectares.
- 3. All stormwater, except for that which is directed to tradewaste, shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this consent.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	<u>Standard</u>	
рН	Within the range 6.0 to 9.0	
suspended solids	Concentration not greater than 100 gm ⁻³	
oil and grease	Concentration not greater than 15 gm ⁻³	

This condition shall apply before entry of the treated stormwater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 5. From 1 April 2021 the consent holder shall ensure that there is always clear and safe all-weather access to a point where the discharge can be sampled to check compliance with condition 4 above.
- 6. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the point where the discharge enters water, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 7. All on site operations, maintenance activities and contingency measures shall be undertaken in accordance with the GMP Environmental Limited Pipeyard Environmental Management Plan dated February 2010 or any subsequent reviews.

Consent 4664-3.1

- 8. The consent holder shall review the GMP Environmental Limited Pipeyard Environmental Management Plan prior to making any changes to the processes or operations undertaken at the site and/or on receiving written notice from the Taranaki Regional Council of:
 - the requirement to review the Plan;
 - the matters which shall be addressed within the plan review; and
 - the reasons or anticipated results of the matters requiring review.

The reviewed Plan shall document all operations, maintenance activities and contingency measures and shall be submitted for approval to the Chief Executive, Taranaki Regional Council, acting in a certification capacity, at least two weeks prior to making any changes to the operations on site and/or within one month of receiving written notice of the requirement to review the Plan.

9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2014 and/or June 2020, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 6 August 2020

For and on behalf of
Taranaki Regional Council

A D McLay

Director - Resource Management

Name of J Swap Contractors Limited

Consent Holder: PO Box 153

Matamata 3440

Decision Date: 7 October 2015

Commencement Date: 7 October 2015

Conditions of Consent

Consent Granted: To discharge stormwater from a transport depot into an

unnamed tributary of the Mangati Stream

Expiry Date: 1 June 2032

Review Date(s): June 2020, June 2026 and in accordance with special

condition 16

Site Location: 88 Corbett Road, Bell Block

Legal Description: Lot 1 DP 19102 Blk II Paritutu SD & Lot 1 DP 365852

(Discharge source & site)

Grid Reference (NZTM) 1700503E-5678062N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent. This includes but is not limited to the minimisation of product being tracked or spilt within the stormwater catchment areas.
- 2. The stormwater discharged shall be from an area not exceeding 5.2 Ha
- 3. All stormwater shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this permit.
- 4. Constituents of the discharge at a point below the manhole/scruffy dome inlet, prior to the stormwater entering the existing piped gully network (at NZTM 1700503E-5678062N), shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
oil and grease	Concentration not greater than 15 gm ⁻³
carbonaceous biochemical oxygen demand	Concentration not greater than 5.0 gm ⁻³

- 5. The consent holder shall maintain safe and reasonable foot access to the site described in condition 4, so that samples of the discharge may be taken.
- 6. At a point 20 metres downstream of the confluence with the Mangati Stream (grid reference NZTM 1699964E-5678256N) the discharge shall not cause any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life and;
 - f) an unionised ammonia concentration greater that 0.025 g/m^3 .

- 7. Before 15 December 2015, the consent holder shall submit the final stormwater system design for Stage One of the proposal and preliminary proof of concept designs for all planned stages of development, to the Chief Executive, Taranaki Regional Council. The design shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity, and shall:
 - a) be prepared by a suitably qualified professional engineer;
 - b) provide sufficient storage for a 1% AEP rainfall event less the pre-development flow (with allowance for climate change to 2090);
 - c) ensure that in rainfall events up to 1% AEP all discharges are made through designated detention ponds (with allowance for climate change to 2090);
 - d) ensure that discharges to the Mangati Stream are no greater than the predevelopment flow rate; and
 - e) indicate how and where flow from over design events leaves the property in a controlled manner.
- 8. Before 31 May 2016 the consent holder shall construct Stage One of the stormwater system in accordance with the design required by condition 7.
- 9. As-built plans shall be certified by a Chartered Professional Engineer (CPEng) as being in accordance with the design plans certified in accordance with condition 7 and a copy of the as-built certification shall be submitted to the Chief Executive, Taranaki Regional Council, within 10 working days of completion of the works.
- 10. Before commencing any development beyond stage one, a final stormwater system design will be submitted to, and be approved by, the Chief Executive, Taranaki Regional Council, acting in a certification capacity, and shall:
 - a) be prepared by a suitably qualified professional engineer;
 - b) provide sufficient storage for a 1% AEP rainfall event less the pre-development flow (with allowance for climate change to 2090);
 - ensure that in rainfall events up to 1% AEP (with allowance for climate change to 2090) all discharges are made through designated detention ponds; and
 - d) ensure that discharges to the Mangati Stream are no greater than the predevelopment flow rate.
- 11. As-built plans of the stormwater system for each subsequent stage of development shall be certified by a Chartered Professional Engineer (CPEng) as being in accordance with the design plans certified in accordance with condition 9 and a copy of the as-built certification shall be submitted to the Chief Executive, Taranaki Regional Council, within 10 working days of completion of the works.
- 12. By 15 December 2015 the site shall be operated in accordance with a 'Management Plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping;
 - d) management and maintenance of the truck wash grit trap and first flush diversion system;
 - e) the maintenance and management of all treatment systems; and
 - f) the minimisation of tracked and spilt product within stormwater catchment areas.

Consent 10085-1.0

- 13. By 15 December 2015, shall submit a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be kept up to date and be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.
- 14. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act 1991. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.
- 15. This consent shall lapse on 31 December 2020, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 16. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2020 and/or June 2026;
 - b) within 3 months of receiving a notification under special condition 14 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 7 October 2015

For and on behalf of
Taranaki Regional Council

A D McLay

Director - Resource Management

Name of McKechnie Aluminium Solutions Limited

Consent Holder: Private Bag 2007

NEW PLYMOUTH 4342

Consent Granted

Date:

2 November 2007

Conditions of Consent

Consent Granted: To discharge stormwater [including cooling water] from an

industrial site into an unnamed tributary of the Mangati Stream at or about (NZTM) 1699261E-5678255N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Paraite Road, Bell Block, New Plymouth

Legal Description: Lot 1 DP 9212, Lot 1 DP 10008 & Lot 2 DP 330342

Catchment: Mangati

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 5010. In the case of any contradiction between the documentation submitted in support of application 5010 and the conditions of this consent, the conditions of this consent shall prevail.
- 3. The stormwater discharge shall be from a catchment not exceeding 5 hectares.
- 4. After allowing for a mixing zone of 10 metres, the discharge shall not give rise to any of the following effects in the receiving waters of the Mangati Stream:
 - (a) the production of any conspicuous oil or grease films, scums or foams or floatable or suspended matter;
 - (b) any conspicuous change in the colour or visual clarity;
 - (c) any emission of objectionable odour;
 - (d) the rendering of fresh water unsuitable for consumption by farm animals;
 - (e) any significant adverse effect on aquatic life;
 - (f) the temperature of water shall not exceed 25°C.
- 5. Components of the discharge shall not exceed the following concentrations:

pH (range) 6.0-9.0 oil and grease 15 g/m^3 suspended solids 100 g/m^3

6. The consent holder shall maintain a contingency plan that details action to be taken in the event of accidental discharge or spillage of contaminants to ensure that the effects are minimised.

Consent 3139-3

- 7. The consent holder shall maintain a stormwater management plan detailing the management and discharge of stormwater and cooling water to ensure that any effects on the Mangati Stream are minimised. This shall include any capital works planned to be undertaken.
- 8. The consent holder shall comply with the procedures, requirements, obligations and all other matters specified in the management plan except with the specific agreement of the Chief Executive, Taranaki Regional Council. In the case of any contradiction between the management plan and the conditions of this consent, the conditions of this resource consent shall prevail.
- 9. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 10. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2014 and/or June 2020, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 4 March 2010

For and on behalf of
Taranaki Regional Council
-
Director-Resource Management

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

NEW PLYMOUTH 4340

Decision Date: 16 June 2014

Commencement Date: 16 June 2014

Conditions of Consent

Consent Granted: To discharge emissions into the air from the processing of

animal matter and associated processes

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026

Site Location: 91 Paraite Road, Bell Block

Legal Description: Lot 1 DP 10331 Pt Sec 14 Blk II Paritutu SD

(Discharge source & site)

Grid Reference (NZTM) 1699798E-5678097N

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. That at all times the consent holder shall adopt the best practicable option (as defined in section 2 of the Resource Management Act 1991) to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants into the air from the site.
- 2. That prior to undertaking any alterations to the plants processes, operations, equipment or layout, as specified in the original application for this consent or any subsequent application to change consent conditions, which may significantly change the nature or quantity of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991 and its amendments.
- 3. The discharges authorised by this consent shall not give rise to an odour at or beyond the boundary of the site that is offensive or objectionable.
- 4. No offal or blood collected from carcasses shall be discharged to the wastewater holding pond.
- 5. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken in the event of plant equipment failure or any other loss of processing or transportation capacity. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event.
- 6. The site shall be operated in accordance with an 'Operations and Maintenance plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site will be managed to achieve compliance with the conditions of this consent and shall include but not be limited to:
 - a. The identification of key personnel responsible for managing air discharges and implementing the Operations and Maintenance;
 - b. A description of the activities on the site and the main potential sources of odour emissions;
 - A description of storage and treatment procedures (including specification of storage times and preservative dosing concentrations) for ensuring that only high quality raw material is processed;
 - d. The identification and description of the odour and dust mitigation measures in place;
 - e. A description of the use and maintenance of the Wastewater treatment pond;
 - f. The identification and description of relevant operating procedures and parameters that need to be controlled to minimise emissions;

Consent 4026-3.0

- g. A description of monitoring and maintenance procedures for managing the odour mitigation measures including record keeping of control parameters and maintenance checks; and
- h. Details of staff training proposed to enable staff to appropriately manage the odour mitigation measures.
- 7. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2020 and/or June 2026, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 16 June 2014

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of Nexans New Zealand Limited

Consent Holder: Private Bag 2021

New Plymouth 4342

Decision Date: 25 June 2008

Commencement Date: 25 June 2008

Conditions of Consent

Consent Granted: To discharge stormwater and cooling water from an electric

wire and cable manufacturing site into the Mangati Stream

Expiry Date: 1 June 2026

Review Date(s): June 2020 and/or within 3 months of receiving a notification

under special condition 10

Site Location: Paraite Road, Bell Block

Legal Description: Lot 2 DP 338778

Grid Reference (NZTM) 1699510E-5678500N

Catchment: Mangati

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

- 1. Notwithstanding any other condition of this consent, the consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharges shall be from a catchment area not exceeding 6.24 hectares.
- 3. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not directly to the stormwater catchment.
- 4. Constituents in the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range of 6.0 to 6.9
Suspended solids	Concentration not greater than 100 gm ⁻³
Oil and grease	Concentration not greater than 15 gm ⁻³

This condition shall apply prior to the entry of the treated stormwater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 5. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.

Consent 4497-3

- 6. The consent holder shall maintain a contingency plan. The contingency plan shall be adhered to at all time and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 7. The consent holder shall maintain stormwater and management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.
- 8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and to be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
- 9. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 10. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2014 and/or June 2020; and/or
 - b) within 3 months of receiving a notification under special condition 10 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 21 May 2015

For and on behalf of Taranaki Regional Council

A D McLay **Director - Resource Management**

Name of OMV New Zealand Limited

Consent Holder: PO Box 8311

New Plymouth 4310

Decision Date (Review): 6 August 2020

Commencement Date

(Review):

6 August 2020

(Granted Date: 24 September 2015)

Conditions of Consent

Consent Granted: To discharge stormwater from an industrial site into an

unnamed tributary of the Mangati Stream

Expiry Date: 1 June 2032

Review Date(s): June 2026 and in accordance with special condition 9

Site Location: 29 Paraite Road, Bell Block

Grid Reference (NZTM) 1699411E-5678351M

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 1.08 hectares.
- 3. Constituents in the discharge shall meet the standards shown in the following table:

Constituent	Standard		
рН	Within the range 6.0 to 9.0		
Suspended solids	Concentration not greater than 100 gm ⁻³		
Oil and grease	Concentration not greater than 15 gm ⁻³		
Ammoniacal nitrogen	Concentration not greater than 10 gm ⁻³		
BOD	Concentration not greater than 16 gm ⁻³		

This condition shall apply prior to the entry of the treated stormwater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 4. From 1 April 2021 the consent holder shall ensure that there is always clear and safe all-weather access to a point where the discharge can be sampled to check compliance with condition 3 above.
- 5. At the point 1699596E- 5678691N the discharge shall not give rise to any of the following effects in the receiving waters of the unnamed tributary of the Mangati Stream:
 - (i) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - (ii) any conspicuous change in the colour or visual clarity;
 - (iii) any emission of objectionable odour;
 - (iv) the rendering of fresh water unsuitable for consumption by farm animals;
 - (v) any significant adverse effects on aquatic life, habitats, or ecology;
 - (vi) any undesirable biological growths.
- 6. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

Consent 3913-3.1

- 7. The site shall be operated in accordance with a 'Management Plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.
- 8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2020 and/or June 2026
 - b) within 3 months of receiving a notification under special condition 8 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 6 August 2020

For and on behalf of				
Taranaki Regional Council				
A D McLay				
Director - Resource Management				

Name of Schlumberger New Zealand Limited

Consent Holder: PO Box 7146

New Plymouth 4341

Decision Date

(Change):

08 June 2010

Commencement Date

(Change):

08 June 2010 (Granted Date: 23 March 2002)

Conditions of Consent

Consent Granted: To discharge treated stormwater from a synthetic liquid mud

plant and storage site into the Mangati Stream

Expiry Date: 01 June 2020

Review Date(s): Within three months of receiving a notification under special

condition 8

Site Location: 68-92 Paraite Road, Bell Block

Legal Description: Lot 1 DP 20999 & Lot 1 DP 11201

Grid Reference (NZTM) 1699611E-5678151N and/or 1699565E-5678094N and/or

1699605E-5678163N and/or 1699631E-5678166N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge on the receiving environment.
- 2. The maximum stormwater catchment area shall be no more than 1.77 ha.
- 3. The consent holder shall ensure that the discharge from the Liquid Mud Plant is treated and managed in the manner described in the MI SWACO *Paraite Road Facility Stormwater Management Plan* issue [A, 0, document number NZ-HSE-707], or to no lesser standard in an alternative system, as approved in writing by the Chief Executive, Taranaki Regional Council.
- 4. Constituents in the discharge shall meet the following standards:

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<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
Oil & grease	Concentration not greater than 15 gm ⁻³
suspended solids	Concentration not greater than 100 gm ⁻³
Biochemical oxygen demand	Concentration not greater than 7 gm ⁻³
Unionised ammonia	Concentration not greater than 0.025 gm ⁻³

This condition shall apply prior to the discharge of the stormwater into the receiving environment, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 5. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the receiving waters of the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 6. By 8 September 2010 the consent holder shall provide an updated contingency plan, which shall thereafter be maintained by means of reviews at not more than 2 yearly intervals. The contingency plan shall be adhered to in the event of a spill or emergency and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.

Consent 5987-1

- 7. The consent holder shall maintain a stormwater management plan, which shall be reviewed at not more than 2 yearly intervals. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site www.trc.govt.nz.

- 8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2008 and/or June 2014; and/or
 - b) within 3 months of receiving a notification under special condition 8 above;

for the purpose of ensuring that the conditions are adequate to deal with any actual or potential adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

For and on behalf of

Transferred at Stratford on 10 December 2014

Taranaki Regional Council	
A D McI av	_
A D McLay	
Director - Resource Management	

Name of Schlumberger New Zealand Limited

Consent Holder: PO Box 7146

New Plymouth 4341

Decision Date (Review): 27 August 2008

Commencement Date

(Review):

27 August 2008 (Granted Date: 4 July 2002)

Conditions of Consent

Consent Granted: To discharge treated washwater and stormwater from a

storage and maintenance premises for oil field exploration

equipment into the Mangati Stream

Expiry Date: 01 June 2020

Review Date(s): Within 3 months of receiving a notification under special

conditon 2

Site Location: 94 Paraite Road, Bell Block, New Plymouth

Legal Description: Lot 2 DP 20437 Lot 2 DP 20999 Blk II Paritutu SD

Grid Reference (NZTM) 1699611E-5677951N

Catchment: Mangati

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

Condition 1 [unchanged]

1. This consent shall be exercised in accordance with the information submitted in support of application 1914, and special conditions 3, 4 and 7 below, and to ensure the conditions of this consent are maintained.

Condition 2 [changed]

2. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes in the processes undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and to be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.

Conditions 3 to 7 [unchanged]

- 3. The consent holder shall prepare and maintain an operation, management and maintenance plan to the satisfaction of the Chief Executive, Taranaki Regional Council, detailing the procedures in place to ensure effective performance of the washwater treatment system.
- 4. The consent holder shall prepare and maintain a stormwater management plan to the satisfaction of the Chief Executive, Taranaki Regional Council, controlling the items and methods by which storage in the stormwater catchment may occur.

5. The following concentrations shall not be exceeded within the discharge effluent:

Component	Concentration	
pH (range)	6.0-9.0	
suspended solids	100 gm ⁻³	
oil and grease	15 gm ⁻³	
dissolved copper	0.05 gm ⁻³	
dissolved lead	0.2 gm ⁻³	
dissolved zinc	0.65 gm ⁻³	

This condition shall apply prior to the entry of the discharge into the receiving waters of the unnamed tributary, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 6. After allowing for a 20 metre mixing zone extending downstream of the discharge point the discharge shall not give rise to any of the following effects in the receiving waters of the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 7. Within three months of the granting of this consent, the consent holder shall prepare and maintain a contingency plan to the satisfaction of the Chief Executive, Taranaki Regional Council, outlining measures and procedures undertaken to prevent spillage or accidental discharge of contaminants, and procedures to be carried out should such a spillage or discharge occur.

Condition 8 [changed]

- 8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a. during the month of June 2014; and/or
 - b. within 3 months of receiving a notification under special condition 2 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Consent 6032-1

Condition 9 [new]

9. There shall be no discharge of wastes containing surfactants, solvents, or any other degreasing agents.

Transferred at Stratford on 10 December 2014

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of Tasman Oil Tools Limited

Consent Holder: PO Box 3140

NEW PLYMOUTH 4312

Decision Date (Review): 05 August 2014

Commencement Date

(Review):

05 August 2014

(Granted Date: 26 November 2001)

Conditions of Consent

Consent Granted: To discharge up to 112 litres/second of stormwater including

washdown water from a storage and maintenance yard for oil field drilling equipment into an unnamed tributary of the

Mangati Stream

Expiry Date: 01 June 2020

Review Date(s): Within 3 months of receiving notification under special

condition 4

Site Location: 13 De Havilland Drive, Bell Block

Legal Description: Lot 3 DP 14795 (Discharge source & site)

Grid Reference (NZTM) 1699760E-5678367N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. This consent shall be exercised generally in accordance with the information submitted in support of application 1566 and to ensure the conditions of this consent are maintained.
- 2. The consent holder shall keep and make available to the Chief Executive, Taranaki Regional Council, upon request, records of the date, frequency and duration of all washing conducted outside the constructed washpad; such records to be kept for at least 12 months.
- 3. The consent holder shall notify the Chief Executive, Taranaki Regional Council 48 hrs prior to yard washings being undertaken for periods in excess of 8 hours in any seven day period.
- 4. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes in the processes undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and to be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
- 5. The stormwater treatment system shall be maintained to the satisfaction of the Chief Executive, Taranaki Regional Council.
- 6. The following concentrations shall not be exceeded within the discharge effluent:

Component	Concentration
pH (range)	6.0-9.0
suspended solids	100 gm ⁻³
oil and grease	15 gm ⁻³
dissolved copper	0.05 gm ⁻³
dissolved lead	0.2 gm ⁻³
dissolved zinc	0.65 gm ⁻³

This condition shall apply prior to the entry of the treated stormwater into the receiving waters of the unnamed tributary, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

Consent 4812-2.1

- 7. After allowing for a 20 metre mixing zone extending downstream of the discharge point the discharge shall not give rise to any of the following effects in the receiving waters of the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 8. The consent holder shall prepare and maintain a contingency plan to the satisfaction of the Chief Executive, Taranaki Regional Council, outlining measures and procedures undertaken to prevent spillage or accidental discharge of contaminants, and procedures to be carried out should such a spillage or discharge occur.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a. during the month of June 2014; and/or
 - b. within 3 months of receiving a notification under special condition 4 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

- 10. There shall be no discharge of wastes containing surfactants, solvents, or any other degreasing agents.
- 11. Before 30 November 2008 the consent holder shall prepare and thereafter maintain a stormwater management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:

For and on behalf of

- a) on site hazardous substance storage;
- b) general housekeeping; and
- c) management of the interceptor systems.

Signed at Stratford on 05 August 2014

1 of and on benan of
Taranaki Regional Council
A D McLay
Director - Resource Management

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

NEW PLYMOUTH 4340

Decision Date: 12 February 2014

Commencement Date: 12 February 2014

Conditions of Consent

Consent Granted: To discharge stormwater from a stock/poultry feed

manufacturing site to the New Plymouth District Council

stormwater drainage network

Expiry Date: 01 June 2026

Review Date(s): June 2017, June 2020, June 2023 and/or within 3 months of

receiving a notification under special condition 10

Site Location: 39 & 57 Paraite Road, Bell Block

Legal Description: Lots 1 & 2 DP 346597 (Discharge source & site)

Grid Reference (NZTM) 1699389E-5678203N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent. Specifically this includes ensuring that 5 day total Biochemical Oxygen Demand (BOD) of the discharge is as low as practically achievable.
- 2. The stormwater discharged shall be from a catchment area not exceeding 2 hectares.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³
5 day total Biochemical Oxygen Demand (BOD) until 30 November 2014	Concentration not greater than 50 gm ⁻³
5 day total Biochemical Oxygen Demand (BOD) after 30 November 2014	Concentration not greater than 25 gm ⁻³

This condition shall apply before entry of the treated stormwater into the New Plymouth District Council pipe at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 4. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 5. Before 30 November 2014, the consent holder shall empty the tank and pipe the waste water to the New Plymouth District Council's municipal trade waste system.
- 6. Before 1 April 2014 the consent holder shall provide, for certification by the Chief Executive of the Taranaki Regional Council, details of a performance based improvement programme outlining monitoring, trigger values, inspections, corrective actions, roles and responsibilities and performance reporting to be undertaken by the consent holder to demonstrate compliance with special condition 1.

Consent 2335-4.0

- 7. A copy of the performance report required by condition 6 shall be provided to the Taranaki Regional Council by 1 July each year.
- 8. The consent holder shall maintain a contingency plan that details measures and procedures to be undertaken to prevent spillage or any discharge of contaminants not authorised by this consent. The contingency plan shall be followed in the event of a spill or unauthorised discharge and shall be certified by the Chief Executive, Taranaki Regional Council as being adequate to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 9. Within three months of the granting of this consent, the consent holder shall prepare and maintain a stormwater management plan that documents how the site is to be managed to minimise the contaminants that become entrained in the stormwater. This plan shall be followed at all times, shall be certified by the Chief Executive, Taranaki Regional Council, and shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site www.trc.govt.nz.

- 10. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the materials used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.
- 11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2017 and/or June 2020 and/or June 2023; and
 - b) within 3 months of receiving a notification under special condition 10 above.

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 February 2014

For and on behalf of Taranaki Regional Council

A D McLay **Director - Resource Management**

Discharge Permit

Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

NEW PLYMOUTH 4340

Decision Date: 23 December 2013

Commencement Date: 23 December 2013

Conditions of Consent

Consent Granted: To discharge stormwater from a poultry processing plant site

to the New Plymouth District Council drainage network

Expiry Date: 1 June 2026

Review Date(s): June 2017, June 2020, June 2023 and in accordance with

special condition 9

Site Location: 91-95 Paraite Road, Bell Block

Legal Description: Lot 1 DP 10331 Pt Sec 14 Blk II Paritutu SD

(Discharge source & site)

Grid Reference (NZTM) 1700090E-85678021N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance to section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent. Specifically this includes ensuring that 5 day total Biochemical Oxygen Demand (BOD) of the discharge is as low as practically achievable.
- 2. The total catchment area discharged from this consent and consent 7389-1 shall not exceed 4.3 hectares.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³
Free chlorine	Concentration not greater than 0.2 gm ⁻³
5 day total Biochemical Oxygen Demand (BOD)	Concentration not greater than 15 gm ⁻³

This condition shall apply before entry of the treated stormwater into the New Plymouth District Council pipe at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 4. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the point of discharge to the Mangati Stream, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.

- 5. Before 28 February 2014, the consent holder shall prepare and submit to the Council an accurate stormwater network analysis for the site. The analysis shall be prepared by a suitably qualified person. The stormwater network analysis shall include but not necessarily be limited to:
 - a) confirmation of the flow paths for the stormwater from the various stormwater ingress points, to the outlet points, under the different potential rainfall intensities;
 - b) the potential for deposition of solids within the stormwater system given the competing flow paths; and
 - c) the effect this may have on the preferential stormwater flow paths and stormwater quality.
- 6. The consent holder shall maintain a contingency plan that details measures and procedures to be undertaken to prevent spillage or any discharge of contaminants not authorised by this consent. The contingency plan shall be followed in the event of a spill or unauthorised discharge and shall be certified by the Chief Executive, Taranaki Regional Council as being adequate to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 7. The consent holder shall maintain a stormwater management plan that documents how the site is to be managed to minimise the contaminants that become entrained in the stormwater. This plan shall be followed at all times, shall be certified by the Chief Executive, Taranaki Regional Council, and shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site www.trc.govt.nz.

8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the materials used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.

Consent 3470-4.0

- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2017 and/or June 2020 and/or June 2023;
 - b) within 3 months of providing the information required by special condition 5 above; and
 - c) within 3 months of receiving a notification under special condition 8 above.

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 23 December 2013

For and on behalf of Taranaki Regional Council
Tururium regional council
Director-Resource Management

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

New Plymouth 4340

Decision Date (Review): 6 August 2020

Commencement Date

(Review):

6 August 2020 (Granted Date: 30 March 2009)

Conditions of Consent

Consent Granted: To discharge stormwater from a poultry processing plant via

a wetland into the Mangati Stream

Expiry Date: 1 June 2026

Review Date(s): In accordance with special condition 14

Site Location: 91-95 Paraite Road, Bell Block

Grid Reference (NZTM) 1700060E-5678080N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 2.6 hectares.
- 3. All stormwater shall be directed for treatment through the stormwater treatment system, which includes a wetland of approximately 6224 m², for discharge in accordance with the special conditions of this permit. The consent holder shall regularly inspect and maintain the wetland to ensure that it provide the necessary stormwater treatment at all times.
- 4. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not directly to the stormwater catchment.
- 5. Constituents of the discharge from the wetland shall meet the standards shown in the following table.

Constituent	Standard	
Unionised ammonia	Concentration not greater than 0.025 gm ⁻³	
BOD	Concentration not greater than 15gm ⁻³	
Oil and grease	Concentration not greater than 15 gm ⁻³	
pH range	Within the range 6-9	
Suspended solids	Concentration not greater than 100 gm ⁻³	

This condition shall apply at the point at which the discharge exits the wetland, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

6. From 1 April 2021 the consent holder shall ensure that there is always clear and safe all-weather access to a point where the discharge can be sampled to check compliance with condition 5 above .

- 7. The discharge, from the point at which the flow from the wetland enters the Mangati Stream, shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 8. The discharge, either by itself or in combination with other discharges shall not cause the concentration of filtered carbonaceous 5 day BOD to exceed 2 gm⁻³ in the Mangati Stream.
- 9. The wetland shall be maintained to a standard that ensures maximum effluent treatment, to the satisfaction of the Chief Executive, Taranaki Regional Council.
- 10. The consent holder shall complete all fencing and riparian planting in accordance with Riparian Management Plan [RMP450] before 31 December 2010.
- 11. The consent holder shall maintain a contingency plan. The contingency plan shall be adhered to in the event of a spill or emergency and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 12. The consent holder shall maintain a stormwater management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.
- 13. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.

Consent 7389-1.2

- 14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2012 and/or June 2014 and/or June 2020; and/or
 - b) within 3 months of receiving a notification under special condition 13 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 6 August 2020

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of TIL Freighting Limited

Consent Holder: Private Bag 2039

New Plymouth 4342

Decision Date: 20 September 2006

Commencement Date: 20 September 2006

Conditions of Consent

Consent Granted: To discharge stormwater from a truck depot into and onto

land in the vicinity of the Mangaone Stream in the

Waiwhakaiho catchment

Expiry Date: 01 June 2020

Site Location: 26 Paraite Road, New Plymouth

Legal Description: Lot 1 DP 9791 & Lot 1 DP 330342

Grid Reference (NZTM) 1699110E-5678250N

Catchment: Waiwhakaiho

Tributary: Mangaone

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge on any water body.
- 2. The maximum stormwater catchment area shall be no more than 4.575 hectares.
- 3. Prior to the exercise of this consent, the consent holder shall provide for the written approval of the Chief Executive, Taranaki Regional Council, a stormwater management plan.
- 4. Prior to the exercise of this consent, the consent holder shall provide for the written approval of the Chief Executive, Taranaki Regional Council, site specific details relating to contingency planning for the truck depot.
- 5. All stormwater to be discharged under this consent shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this consent.
- 6. The design, management and maintenance of the stormwater system shall be generally undertaken in accordance with the information submitted in support of application 4350. In the case of any contradiction between the documentation submitted in support of application 4350 and the conditions of this consent, the conditions of this consent shall prevail.
- 7. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not to the stormwater catchment.

Consent 6952-1

- 8. The discharge shall not give rise to any of the following effects in the receiving waters:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) any significant adverse effects on aquatic life.
- 9. The discharge onto and into land shall occur a minimum of 30 metres from any surface water body. Discharge shall be onto and into land and there shall be no direct discharge to surface water.
- 10. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2008 and/or June 2014, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 11 December 2014

For and on behalf of
Taranaki Regional Council
O
A D McLay
Director - Resource Management

Name of TIL Freighting Limited

Consent Holder: Private Bag 2039

New Plymouth 4342

Decision Date: 20 April 2010

Commencement Date: 20 April 2010

Conditions of Consent

Consent Granted: To discharge stormwater from a truck depot into the Mangati

Stream

Expiry Date: 01 June 2026

Review Date(s): June 2020

Site Location: 24-26 Paraite Road, Bell Block

Legal Description: Lot 1 DP 9791 Pt Lot 1 DP 330342

Grid Reference (NZTM) 1699264E-5678299N and/or 1699239E-5678364N and/or

1699149E-5678391N

Catchment: Mangati

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 2.60 ha.
- 3. Any significant volumes of hazardous substances [e.g. bulk fuel, molasses] on site shall be:
 - a) contained in a double skinned tank, or
 - b) stored in a dedicated bunded area with drainage to sumps, or to other appropriate recovery systems, and not directly to the site stormwater system.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>	
pH	Within the range 6.0 to 9.0	
suspended solids	Concentration not greater than 100 gm ⁻³	
Oil & grease	Concentration not greater than 15 gm ⁻³	
Biochemical oxygen demand	Concentration not greater than 7 gm ⁻³	

This condition shall apply before entry of the treated stormwater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

- 5. After allowing for reasonable mixing, within a mixing zone extending 20 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the Mangati Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 6. The consent holder shall maintain a contingency plan, which shall be reviewed at not more than 2 yearly intervals. The contingency plan shall be adhered to in the event of a spill or emergency and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.

Consent 7578-1

- 7. The consent holder shall maintain a stormwater management plan, which shall be reviewed at not more than 2 yearly intervals. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site www.trc.govt.nz.

- 8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
- 9. This consent shall lapse on 30 June 2015, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 10. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2012 and/or June 2014 and/or June 2020; and/or
 - b) within 3 months of receiving a notification under special condition 8 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 11 December 2014

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Name of Nexans New Zealand Limited

Consent Holder: Private Bag 2021

New Plymouth 4342

Decision Date: 24 February 2015

Commencement Date: 24 February 2015

Conditions of Consent

Consent Granted: To discharge emissions into the air from an electric wire and

cable manufacturing plant and associated activities

Expiry Date: 1 June 2032

Review Date(s): June 2020, June 2026 and in accordance with special

condition 8

Site Location: 69 Paraite Road, Bell Block

Legal Description: Lot 1 DP 435659 (Discharge source & site)

Grid Reference (NZTM) 1699564E-5678312N

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. Any discharge to air from the exercise of this consent shall not give rise to any offensive, objectionable or toxic levels of dust or odour at or beyond the boundary of the property.
- 3. The consent holder shall control all emissions of carbon monoxide, nitrogen dioxide, fine particles (PM₁₀) and sulphur dioxide to the atmosphere from the site, in order that the maximum ground level concentration of any of these contaminants arising from the exercise of this consent measured under ambient conditions does not exceed the relevant ambient air quality standard as set out in the Resource Management (National Environmental Standards for Air Quality Regulations, 2004) at or beyond the boundary of the property on which the site is located.
- 4. That the consent holder shall control all emissions to the atmosphere from the site of contaminants other than carbon dioxide, carbon monoxide, and nitrogen oxides, in order that the maximum ground level concentration for any particular contaminant arising from the exercise of this consent, measured at or beyond the boundary of the site is not increased above background levels:
 - a. by more than 1/30th of the relevant Workplace Exposure Standard-Time Weighted Average (exposure averaged over a duration as specified for the Workplace Exposure Standard-Time Weighted Average), or by more than 1/10th of the Workplace Exposure Standard-Short Term Exposure Limit over any short period of time (all terms as defined in Workplace Exposure Standards, 2010, Department of Labour); or
 - b. if no Short Term Exposure Limit is set, by more than the General Excursion Limit at any time (all terms as defined in Workplace Exposure Standards, 2010, Department of Labour).
- 5. Prior to undertaking any alterations to the plant, processes or operations, which may significantly change the nature or quantity of contaminants emitted to air from the site, the consent holder shall first consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991.

Consent 5417-2.0

- 6. The consent holder shall maintain a permanent record of any complaints received alleging adverse effects from or related to the exercise of this consent. This record shall include the following, where practicable:
 - a) the name and address of the complainant, if supplied;
 - b) date, time and details of the alleged event;
 - c) weather conditions at the time of the alleged event (as far as practicable);
 - d) investigations undertaken by the consent holder in relating to the complaint and any measures adopted to remedy the effects of the incident/complaint; and
 - e) measures put in place to prevent occurrence of a similar incident.

The consent holder shall make the complaints record available to officers of Taranaki Regional Council, on request.

- 7. The consent holder shall provide to the Taranaki Regional Council during November of each year, for the duration of this consent, a report reviewing any technological advances in the reduction or mitigation of emissions, how these might be applicable and/or implemented at the plant, and the costs and benefits of these advances;
- 8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2020 and/or June 2026; and/or
 - b) within 3 months of any consultation under special condition 5 above;

for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

For and on behalf of

Transferred at Stratford on 21 May 2015

Taranaki Regional Council
A D McLay
Director - Resource Management

Name of

Consent Holder:

Tegel Foods Limited Private Bag 2015 NEW PLYMOUTH

Consent Granted

Date:

23 November 2001

Conditions of Consent

Consent Granted: To discharge emissions into the air from the milling and

blending of grain and/or animal meals together with

associated activities at or about GR: P19:094-399

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: 39/57 Paraite Road, Bell Block, New Plymouth

Legal Description: Lots 3 & 4 DP 11072 Blk II Paritutu SD

- a) That on receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) That unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) That the consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment.
- 2. No alteration shall be made to plant equipment or processes which may substantially alter the nature, quantity or likelihood of discharges to atmosphere without prior consultation with the Chief Executive, Taranaki Regional Council.
- 3. Within three months of the granting of this consent the consent holder shall prepare and maintain to the satisfaction of the Chief Executive, Taranaki Regional Council a management plan addressing the measures adopted to prevent an accumulation of dust within the stormwater catchment as a result of normal operations and emission incidents.
- 4. The discharge concentration of dust from any point source shall be less than 125 mg/m³ normal temperature and pressure (NTP).
- 5. The dust deposition rate beyond the property boundary arising from the discharge shall be less than $4.0 \text{ g/m}^2/30 \text{ days}$.
- 6. Any discharge to air from the premises shall not give rise to any offensive, objectionable, noxious or toxic levels of dust or odour at or beyond the boundary of the property, and in any case, suspended particulate matter shall not exceed 3 mg/m³ (measured under ambient conditions) beyond the boundary of the site.
- 7. The consent holder shall keep, and make available to the Chief Executive, Taranaki Regional Council, upon request, a record of the time, duration and cause of all dust or smoke emissions incidents having actual or potential off-site impacts.
- 8. As far as is practicable yard areas of the site shall be cleared of accumulations of dust.

Consent 4038-6

9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2008 and/or June 2014, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 23 November 2001

For and on behalf of Taranaki Regional Council	

Director-Resource Management

Discharge Permit Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

NEW PLYMOUTH 4340

Decision Date: 16 June 2014

Commencement Date: 16 June 2014

Conditions of Consent

Consent Granted: To discharge emissions into the air from the processing of

animal matter and associated processes

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026

Site Location: 91 Paraite Road, Bell Block

Legal Description: Lot 1 DP 10331 Pt Sec 14 Blk II Paritutu SD

(Discharge source & site)

Grid Reference (NZTM) 1699798E-5678097N

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

General condition

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. That at all times the consent holder shall adopt the best practicable option (as defined in section 2 of the Resource Management Act 1991) to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants into the air from the site.
- 2. That prior to undertaking any alterations to the plants processes, operations, equipment or layout, as specified in the original application for this consent or any subsequent application to change consent conditions, which may significantly change the nature or quantity of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991 and its amendments.
- 3. The discharges authorised by this consent shall not give rise to an odour at or beyond the boundary of the site that is offensive or objectionable.
- 4. No offal or blood collected from carcasses shall be discharged to the wastewater holding pond.
- 5. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken in the event of plant equipment failure or any other loss of processing or transportation capacity. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event.
- 6. The site shall be operated in accordance with an 'Operations and Maintenance plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site will be managed to achieve compliance with the conditions of this consent and shall include but not be limited to:
 - a. The identification of key personnel responsible for managing air discharges and implementing the Operations and Maintenance;
 - b. A description of the activities on the site and the main potential sources of odour emissions;
 - A description of storage and treatment procedures (including specification of storage times and preservative dosing concentrations) for ensuring that only high quality raw material is processed;
 - d. The identification and description of the odour and dust mitigation measures in place;
 - e. A description of the use and maintenance of the Wastewater treatment pond;
 - f. The identification and description of relevant operating procedures and parameters that need to be controlled to minimise emissions;

Consent 4026-3.0

- g. A description of monitoring and maintenance procedures for managing the odour mitigation measures including record keeping of control parameters and maintenance checks; and
- h. Details of staff training proposed to enable staff to appropriately manage the odour mitigation measures.
- 7. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2020 and/or June 2026, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 16 June 2014

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Discharge Permit Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of W Abraham Limited

Consent Holder: PO Box 4016

New Plymouth 4340

Decision Date: 11 May 2015

Commencement Date: 11 May 2015

Conditions of Consent

Consent Granted: To discharge emissions into the air from the operation of a

crematorium including a natural gas-fired cremator

Expiry Date: 1 June 2032

Review Date(s): June 2020, June 2026

Site Location: 10 Swans Road, Bell Block

Legal Description: Lot 2 DP 429053 (Discharge source & site)

Grid Reference (NZTM) 1700244E-5678513N

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

General condition

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effects on the environment arising from discharges to air from the site.
- 2. The consent holder shall undertake the activity in general accordance with the application for this consent (7147-2.0) and the application for the expired consent (7147-1.0). If there is a conflict between the applications the later application shall prevail, and if there is a conflict between the applications and consent conditions the conditions shall prevail.
- 3. Prior to undertaking any alterations to the plant, process, or operations, which may significantly change the nature or quantity or concentration of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991 and any amendments.
- 4. The consent holder shall notify the Chief Executive, Taranaki Regional Council, shall at least 2 working days before any maintenance that may affect or include the calibration, monitoring, or process control of the cremators. Notification shall include the consent number and a brief description of the work to be done, and be emailed to worknotification@trc.govt.nz.
- 5. The consent holder shall at all times operate, maintain, supervise, monitor and control all processes so that emissions authorised by this consent are maintained at a practicable minimum.
- 6. The cremators and all duct work shall be maintained leak proof and gas tight to prevent the discharge of gases from the duct work or cremator, other than through the stack.
- 7. The stack flue and duct work leading to the stack shall be adequately insulated to avoid, as far as practicable, the condensation of liquids or the formation of soot smuts.
- 8. The consent holder shall take all reasonable steps to reduce and minimise the quantity of materials (such as PVC, metals, and other materials listed in the guidelines published by the Australasian Cemeteries and Crematoria Association (May 2004): *Contents of coffins delivered for cremation*) combusted within the cremator.
- 9. The consent holder shall remove all external casket fittings containing metals or PVC prior to cremation.

- 10. The cremator shall be interlocked so as to prevent the introduction of a coffin to the primary chamber unless the temperature in the secondary combustion zone exceeds 750°C.
- 11. The minimum stack height for the discharge of exhaust emissions from the cremator shall be eight metres above ground level.
- 12. The cremator shall be operated so that the temperature within or at the outlet from the secondary chamber exceeds 750°C at all times that a cremation is taking place (i.e. from the moment of introduction of a casket into the primary chamber). If the temperature within or at the outlet from the secondary chamber falls below 750°C while a cremation is taking place, the operator shall take all practicable steps or the controls shall be automatically set so as to return and maintain the temperature to or above 750°C.
- 13. The cremator shall maintain both a primary combustion and a secondary combustion zone. The secondary chamber shall be sized so as to have a minimum residence time of 1.57 seconds at 750°C. The consent holder shall provide certified 'as-built' drawings and calculations demonstrating compliance with this condition to the Chief Executive, Taranaki Regional Council, prior to exercise of the consent.
- 14. In any one cremation cycle not more than two one-minute averages of the opacity readings shall exceed 20% obscuration or Ringelmann Scale 1.
- 15. The concentration of carbon monoxide at the outlet from the secondary combustion chamber shall not exceed 100 mg/m³ (expressed at reference conditions 0°C and 101.3 kPa).
- 16. The consent holder shall continuously record the opacity in the exhaust gases at the outlet of the secondary chamber or exhaust ducting.
- 17. The consent holder shall continuously record the temperature of gases within or at the outlet of the secondary chamber.
- 18. The consent holder shall maintain the schedule of maintenance and calibration of the cremator including but not limited to its controlling, recording, and monitoring equipment and systems.
- 19. The consent holder shall control all emissions of carbon monoxide, nitrogen dioxide, fine particles (PM10) and sulphur dioxide to the atmosphere from the site, in order that the maximum ground level concentration of any of these contaminants arising from the exercise of this consent measured under ambient conditions does not exceed the relevant ambient air quality standard as set out in the Resource Management (National Environmental Standards for Air Quality Regulations, 2004) at or beyond the boundary of the property.
- 20. The consent holder shall control all emissions to the atmosphere from the site of contaminants other than those expressly provided for under special condition 19, in order that they do not individually or in combination with other contaminants cause a hazardous, noxious, dangerous, offensive or objectionable effect at or beyond the boundary of the property.

- 21. The discharges authorised by this consent shall not give rise to an odour at or beyond the boundary of the site that is offensive or objectionable.
- 22. For the purposes of special conditions 20 and 21, without restriction, an odour shall be deemed to be offensive or objectionable if:
 - a. it is held to be so in the opinion of an enforcement officer of the Taranaki Regional Council, having regard to the duration, frequency, intensity and nature of the odour; and/or
 - b. an officer of the Taranaki Regional Council observes that an odour is noticeable, and either it lasts longer than ten (10) minutes continuously, or it occurs frequently during a single period of more than one (1) hour; and/or
 - c. no less than three individuals from at least two different properties, each declare in writing that an objectionable or offensive odour was detected beyond the boundary of the site, provided the Taranaki Regional Council is satisfied that the declarations are not vexatious and that the objectionable or offensive odour was emitted from the site at the frequency and duration specified in (b). Each declaration shall be signed and dated and include:
 - i. the individuals' names and addresses:
 - ii. the date and time the objectionable or offensive odour was detected;
 - iii. details of the duration, frequency, intensity and nature of the odour that cause it to be considered offensive or objectionable;
 - iv. the location of the individual when it was detected; and
 - v. the prevailing weather conditions during the event.
- 23. At the written request of the Chief Executive, Taranaki Regional Council, the consent holder shall undertake emission test on discharges from the cremator. This emission testing shall:
 - a. be undertaken for all pollutants that are requested to be tested in writing by the Chief Executive, Taranaki Regional Council, for the volumetric flow of combustion gases, and for the oxygen concentration at the exit of the secondary chambers and at the test ports;
 - for each sample, be conducted over a complete cremation cycle, commencing as soon typical operating conditions have achieved, ending once calcining is complete, and over a period of at least one hour; and
 - b. comprise not less than three separate samples for each type of emission test undertaken, and shall have the concentration results corrected to 0 (zero) degrees Celsius, 1 (one) atmosphere pressure and on a dry gas basis.
- 24. The consent holder shall provide to the Chief Executive, Taranaki Regional Council, upon request, all monitoring (including results of all tests, relevant operating parameters, raw data, all calculations, assumptions and an interpretation of the results), and calibration and process control data whether generated and held by an operator, any automated process control systems or any agent of the consent holder.

Consent 7147-2.0

- 25. The Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2020 and/or June 2026 for the purpose of:
 - a) adding, amending or deleting any limit on discharge or ambient concentrations of any contaminant or contaminants; and/or
 - b) requiring the consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment caused by any discharge to the environment; and/or
 - c) requiring the consent holder to calibrate and/or maintain any monitoring and/or recording device to monitor combustion conditions or environmental performance of the cremator including but not limited to devices for the measurement and/or recording of oxygen and/or carbon monoxide within the secondary combustion chamber and/or exhaust stack; and/or
 - d) ensuring that the conditions are adequate to deal with any adverse effects of the discharge on the environment arising from the exercise of this consent which were not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 11 May 2015

For and on behalf of
Taranaki Regional Council

A D McLay

Director - Resource Management

Discharge Permit Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of Tegel Foods Limited Consent Holder: Private Bag 2015

New Plymouth 4340

Decision Date: 24 October 2014

Commencement Date: 24 October 2014

Conditions of Consent

Consent Granted: To discharge poultry processing wastes by burial into land in

the vicinity of the Mangati Stream in emergency

circumstances only

Expiry Date: 01 June 2032

Review Date(s): June 2020 and/or June 2026

Site Location: 91 Paraite Road, Bell Block

Legal Description: Lot 1 DP 10331 Pt Sec 14 Blk II Paritutu SD (site of

discharge)

Grid Reference (NZTM) 1699935E-5678077N

Catchment: Mangati

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

General condition

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. This consent shall only be exercised in an emergency situation when there are no reasonable alternatives. No discharge shall occur unless the Chief Executive, Taranaki Regional Council (or his/her delegate) has confirmed that it complies with this requirement.
- 2. Before exercising the consent, the consent holder shall advise the Chief Executive, Taranaki Regional Council (CETRC), of:
 - Details of the emergency,
 - Why alternative disposal methods are unavailable,
 - Estimated volume of material,
 - Location of burial pits,
 - Estimated duration of emergency,

The discharge shall than only occur after the CETRC (or his/her delegate) has confirmed that the proposed discharge complies with condition 1. In confirming that the proposal complies with condition 1, the CETRC may limit the duration or scale of the discharge and require the information listed above to be updated for the discharge to be extended

- 3. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site, including but not limited to effects on any water body or soil.
- 4. All burial trenches shall be located no closer than 25 metres to any surface water body.
- 5. All burial trenches shall be constructed so that the base is located above the level of groundwater.
- 6. The consent holder shall maintain records of any disposal including date, type of waste discharged, volume of waste discharged per day and the location waste was discharged, and shall make these records available to the Chief Executive, Taranaki Regional Council, upon request.

Consent 5494-2.0

- 7. The consent holder shall maintain and regularly update a 'Burial Management Plan' that has been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the burial will be managed to achieve compliance with the conditions of this consent and shall include as a minimum:
 - a. Circumstances when the consent may be exercised,
 - b. Procedure for advising the CETRC to determine compliance with condition 1,
 - c. What information will be provided to the CETRC in order for him/her to determine compliance with condition 1,
 - d. The identification of key personnel responsible for managing and implementing the emergency burial;
 - e. The design of the burial pits; and
 - f. The area in which the burial pits can be located.
 - g. The location of pits in which material has been disposed of.
 - h. On-going management of the burial areas.

Any changes to the plan shall not take effect until they have been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

- 8. This consent shall lapse on 01 June 2032, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2020 and/or June 2026, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 24 October 2014

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Appendix II

Categories used to evaluate environmental and administrative performance

Categories used to evaluate environmental and administrative performance

Environmental performance is concerned with <u>actual or likely effects</u> on the receiving environment from the activities during the monitoring year. Administrative performance is concerned with the Company's approach to demonstrating consent compliance <u>in site operations and management</u> including the timely provision of information to Council (such as contingency plans and water take data) in accordance with consent conditions.

Events that were beyond the control of the consent holder <u>and</u> unforeseeable (that is a defence under the provisions of the RMA can be established) may be excluded with regard to the performance rating applied. For example loss of data due to a flood destroying deployed field equipment.

The categories used by the Council for this monitoring period, and their interpretation, are as follows:

Environmental Performance

High: No or inconsequential (short-term duration, less than minor in severity) breaches of consent or regional plan parameters resulting from the activity; no adverse effects of significance noted or likely in the receiving environment. The Council did not record any verified unauthorised incidents involving environmental impacts and was not obliged to issue any abatement notices or infringement notices in relation to such impacts.

Good: Likely or actual adverse effects of activities on the receiving environment were negligible or minor at most. There were some such issues noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party but these items were not critical, and follow-up inspections showed they have been dealt with. These minor issues were resolved positively, co-operatively, and quickly. The Council was not obliged to issue any abatement notices or infringement notices in relation to the minor non-compliant effects; however abatement notices may have been issued to mitigate an identified potential for an environmental effect to occur.

For example:

- High suspended solid values recorded in discharge samples, however the discharge was to land or to receiving waters that were in high flow at the time;
- Strong odour beyond boundary but no residential properties or other recipient nearby.

Improvement required: Likely or actual adverse effects of activities on the receiving environment were more than minor, but not substantial. There were some issues noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent minor non-compliant activity could elevate a minor issue to this level.

Abatement notices and infringement notices may have been issued in respect of effects.

Poor: Likely or actual adverse effects of activities on the receiving environment were significant. There were some items noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent moderate non-compliant activity could elevate an 'improvement required' issue to this level. Typically there were grounds for either a prosecution or an infringement notice in respect of effects.

Administrative performance

High: The administrative requirements of the resource consents were met, or any failure to do this had trivial consequences and were addressed promptly and co-operatively.

Good: Perhaps some administrative requirements of the resource consents were not met at a particular time, however this was addressed without repeated interventions from the Council staff. Alternatively

adequate reason was provided for matters such as the no or late provision of information, interpretation of 'best practical option' for avoiding potential effects, etc.

Improvement required: Repeated interventions to meet the administrative requirements of the resource consents were made by Council staff. These matters took some time to resolve, or remained unresolved at the end of the period under review. The Council may have issued an abatement notice to attain compliance.

Poor: Material failings to meet the administrative requirements of the resource consents. Significant intervention by the Council was required. Typically there were grounds for an infringement notice.