

Regional Quarry Compliance Monitoring
Combined Biennial Report
Group B
2014-2016

Technical Report 2016-37

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Executive summary

Currently, there are 26 quarries throughout the region that are monitored by the Taranaki Regional Council (the Council). Between these quarries there are 51 resource consents, authorising water discharges and abstractions, discharges of cleanfill and stream modifications. This report covers the period July 2014 to June 2016, and will be the first report to incorporate the monitoring results of this group of quarries into one streamlined report.

There are two biennial streams in which quarry monitoring programmes are reported. This report spans July 2014-June 2016; a reporting period which incorporates nine of the region's 26 quarries (Group B). The monitoring programmes for another 16 quarries will be included in a separate biennial report (Group A), which will cover the period July 2015-June 2017.

For each quarry, this report describes the monitoring programmes implemented by the Council to assess environmental performance during the period under review, and the results and environmental effects of the quarry's activities.

During the monitoring period:

Horizon Trust Management Limited demonstrated an overall high level of environmental performance.

Vickers Quarries Limited demonstrated an overall high level of environmental performance at the York Road quarry.

Vickers Quarries Limited demonstrated an overall high level of environmental performance at the Toko Road quarry.

R A Wallis Limited demonstrated an overall high level of environmental performance at the Omahuru Road quarry.

R A Wallis Limited demonstrated an overall level of environmental performance at the Lower Glenn Road quarry which required improvement.

Ferndene Quarries Limited demonstrated an overall high level of environmental performance at the Upland Road quarry.

Taranaki Trucking Company Limited demonstrated an overall high level of environmental performance at the Wiremu Road quarry.

GR & LJ Jones demonstrated an overall high level of environmental performance at the Mahoetahi Road quarry.

Valley Minerals Limited demonstrated an overall level of environmental performance at the Uruti quarry which required improvement.

For reference, in the 2014-2015 year, 75% of consent holders in Taranaki monitored through tailored compliance monitoring programmes achieved a high level of environmental performance and compliance with their consents, while another 22% demonstrated a good level of environmental performance and compliance with their consents. In the 2015-2016 year, 71% of consent holders in Taranaki monitored through tailored compliance monitoring programmes achieved a high level of environmental performance and compliance with their consents, while another 24% demonstrated a good level of environmental performance and compliance with their consents.

This report includes recommendations for the 2016-2018 monitoring period for each consent holder.

Table of contents

	Page
1. Introduction	6
1.1. Compliance monitoring programme reports and the Resource Management Act 1991	6
1.1.1. Introduction	6
1.1.2. Structure of this report	6
1.1.3. The Resource Management Act 1991 and monitoring	7
1.1.4. Evaluation of environmental performance and administrative compliance	8
1.1.5. Quarrying in Taranaki	9
1.2. Resource consents	11
1.2.1. Water discharge permits	11
1.2.2. Water abstraction permits	11
1.2.3. Discharges of wastes to land	11
1.2.4. Land use permits	11
1.2.5. Summary of resource consents held for Taranaki quarries	11
1.3. Monitoring programme overview	13
1.3.1. Introduction	13
1.3.2. Programme liaison and management	14
1.3.3. Site inspections	14
1.3.4. Physicochemical sampling	14
1.3.5. Data review	14
1.3.6. Biomonitoring surveys	14
1.4. Investigations, interventions, and incidents	14
2. Horizon Trust Management Limited	16
2.1. Introduction	16
2.2. Resource consents	17
2.3. Compliance monitoring programme	17
2.4. Environmental and administrative performance summary	17
2.5. Alterations and recommendations for 2016-2018	17
3. Vickers Quarries Limited, York Road	18
3.1. Introduction	18
3.2. Resource consents	19
3.3. Compliance monitoring programme	19
3.4. Environmental and administrative performance summary	19

3.5.	Alterations and recommendations for 2016-2018	25
3.6.	Exercise of optional review of consents	25
4.	Vickers Quarries Limited, Toko Road	26
4.1.	Introduction	26
4.2.	Resource consents	27
4.3.	Compliance monitoring programme	27
4.4.	Environmental and administrative performance summary	27
4.5.	Alterations and recommendations for 2016-2018	29
5.	R A Wallis Limited, Omahuru Road	30
5.1.	Introduction	30
5.2.	Resource consents	30
5.3.	Compliance monitoring programme	31
5.4.	Environmental and administrative performance summary	31
5.5.	Alterations and recommendations for 2016-2018	32
6.	R A Wallis Limited, Lower Glenn Road	33
6.1.	Introduction	33
6.2.	Resource consents	33
6.3.	Compliance monitoring programme	34
6.4.	Environmental and administrative performance summary	34
6.5.	Alterations and recommendations for 2016-2018	36
6.6.	Exercise of optional review of consent	36
7.	Ferndene Quarries Limited, Upland Road	37
7.1.	Introduction	37
7.2.	Resource consents	38
7.3.	Compliance monitoring programme	38
7.4.	Environmental and administrative performance summary	38
7.5.	Alterations and recommendations for 2016-2018	40
8.	Taranaki Trucking Company Limited, Wiremu Road	41
8.1.	Introduction	41
8.2.	Resource consents	42
8.3.	Compliance monitoring programme	42
8.4.	Environmental and administrative performance summary	42
8.5.	Alterations and recommendations for 2016-2018	44
8.6.	Exercise of optional review of consents	44
9.	GR & LJ Jones Quarry, Mahoetahi Rd	45
9.1.	Introduction	45

9.2.	Resource consents	46
9.3.	Compliance monitoring programme	46
9.4.	Environmental and administrative performance summary	46
9.5.	Alterations and recommendations for 2016-2018	48
10.	Valley Minerals Limited, Uruti Quarry Site	49
10.1.	Introduction	49
10.2.	Resource consents	50
10.3.	Compliance monitoring programme	50
10.4.	Environmental and administrative performance summary	50
10.5.	Alterations and recommendations for 2016-2018	55
	Glossary of common terms and abbreviations	56
	Bibliography and references	58
	Appendix I Resource consents for the Group B quarries	

List of tables

Table 1	Resource consents held by Group B quarries	12
Table 2	Resource consents held by Group A quarries	12
Table 3	Summary of compliance with consent 9464-1 over the 2012-2016 monitoring period	17
Table 4	Results from discharge sample and Waipuku Stream samples (4905-3.1)	20
Table 5	Results from discharge sample and Manganui River samples (5218-2.1)	21
Table 6	Summary of compliance with consent 4905-3.1 over the 2014-2016 monitoring period	22
Table 7	Summary of compliance with consent 5218-2.1 over the 2014-2016 monitoring period	22
Table 8	Summary of compliance with consent 9850-1.0 over the 2014-2016 monitoring period	23
Table 9	Summary of compliance with consent 9812-1.1 over the 2014-2016 monitoring period	24
Table 10	Summary of compliance with consent 7615-1 over the 2014-2016 monitoring period	25
Table 11	Results from discharge sample (3564-3)	27
Table 12	Summary of compliance with consent 3564-3 over the 2014-2016 monitoring period	28
Table 13	Summary of compliance with consent 5719-1 over the 2014-2016 monitoring period	31
Table 14	Results from discharge sample (unauthorised discharge at Lower Glenn Road)	34
Table 15	Summary of compliance with consent 9600-1 over the 2014-2016 monitoring period	35
Table 16	Summary of compliance with consent 6453-1 over the 2014-2016 monitoring period	38
Table 17	Summary of compliance with consent 7089-1 over the 2014-2016 monitoring period	39
Table 18	Summary of compliance with consent 2184-3 over the 2014-2016 monitoring period	42
Table 19	Summary of compliance with consent 2293-3 over the 2014-2016 monitoring period	43
Table 20	Summary of compliance with consent 6274-1 over the 2014-2016 monitoring period	46
Table 21	Summary of compliance with consent 7439-1 over the 2014-2016 monitoring period	48
Table 22	Incident sample results Valley Minerals Quarry December 2015	52
Table 23	Summary of compliance with consent 5124-2 over the 2014-2016 monitoring period	52
Table 24	Summary of compliance with consent 6272-1 over the 2014-2016 monitoring period	53
Table 25	Summary of compliance with consent 10143-1 over the 2014-2016 monitoring period	54
Table 26	Summary of compliance with consent 10146-1 over the 2014-2016 monitoring period	55

List of figures

Figure 1	Reporting cycles for both combined quarry groups	6
Figure 2	Monitored quarries in Taranaki	10
Figure 3	Horizon Trust Management Limited quarry site location	16
Figure 4	Vickers Quarries Limited York Road quarry site location	18
Figure 5	Vickers Quarries Limited Toko Road quarry site location	26
Figure 6	R A Wallis Limited Omahuru Road quarry site location	30
Figure 7	Ferndene Quarry site location map	37
Figure 8	Taranaki Trucking Quarry site location map, Wiremu Road	41
Figure 9	GR & LJ Jones Quarry site location map	45
Figure 10	Valley Minerals Ltd Quarry site location map, Mokau Rd	49
Figure 11	Sample site location map, Valley Minerals Quarry	51

List of photos

Photo 1	Left: Manganui Stream, upstream of discharge. Centre: Discharge from top site into Manganui Stream. Right: Manganui Stream, downstream of discharge.	21
Photo 2	A: Pond conversion and reinstated paddocks. B: Settlement pond discharge point. C: Discharge mixing with Patea River.	28
Photo 3	R A Wallis Limited's Lower Glenn Road Quarry excavation pit, facing north east	33

1. Introduction

1.1. Compliance monitoring programme reports and the Resource Management Act 1991

1.1.1. Introduction

This report is the second combined biennial report by the Taranaki Regional Council (the Council) for the quarry monitoring programmes in the region. There are two biennial streams in which quarry monitoring programmes are reported (Figure 1). This report covers the period from July 2014 to June 2016; including monitoring results from nine of the region's 26 quarries (Group B). The monitoring results for another 16 quarries are reported in a separate biennial cycle (Group A), with the next report scheduled to cover the period from July 2015 to June 2017. One quarry, Inglewood Metal, has not yet been included in a combined report due to its scale and recent monitoring history. Eventually, the combined monitoring reports will comprise all of the quarries in Taranaki.

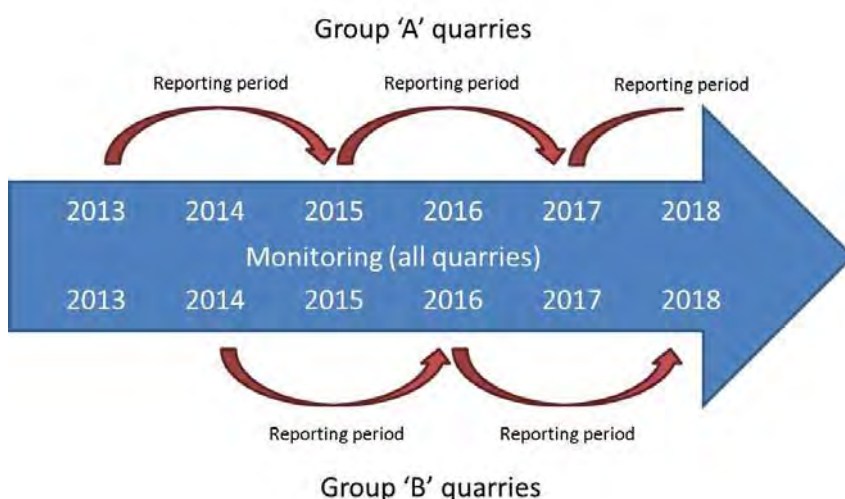


Figure 1 Reporting cycles for both combined quarry groups

This report covers the results and findings of the monitoring programmes implemented by the Council in respect of the resource consents associated with each quarry.

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 quarry consent holders' use of water, land, and air.

1.1.2. Structure of this report

Section 1 of this report is a background section. It sets out general information about compliance monitoring under the RMA and the Council's obligations and general approach to monitoring and evaluating sites through site specific programmes, the resource consents held by quarry operators in the region, and a description of the components of quarry monitoring programmes.

Sections 2-10 of this report present the monitoring results and evaluate each site in terms of their administrative and environmental performance. These sections are presented in a 'report card' style which follows a standard format, as explained below:

1. A brief site description and quarry background is provided.
2. Associated resource consents are listed with basic details including key dates.
3. The monitoring programme components are summarised.
4. The company's environmental performance and administrative compliance is evaluated, including:
 - a. A summary of the company's performance, regarding the site and wider environment.
 - b. If necessary, any incidents, investigations or interventions that occurred during the monitoring period.
 - c. A direct assessment of the company's consent compliance over the monitoring period.
5. Any alterations or recommendations for subsequent monitoring are stipulated.
6. If there are any provisions for consent review, these will be considered.

The following resources are found at the end of this report:

- a glossary of common abbreviations and scientific terms
- a bibliography
- resource consents
- and biomonitoring reports

1.1.3. The Resource Management Act 1991 and monitoring

The Resource Management Act 1991 (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 social-economic 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 abstraction and discharge permits, and in implementing monitoring programmes, the Council is recognising the comprehensive meaning of 'effects' inasmuch 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 performance and administrative compliance

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.

Environmental performance is concerned with actual or likely effects on the receiving environment from the activities during the monitoring year. **Administrative performance** is concerned with the Company's approach to demonstrating consent compliance in site operations and management 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 and 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 significant 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 in response to unauthorised incident reports, 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;*
- *Dust clouds 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 in response to unauthorised incident reports. 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 in response to unauthorised incident reports. 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 these were 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.

For reference, in the 2014-2015 year, 75% of consent holders in Taranaki monitored through tailored compliance monitoring programmes achieved a high level of environmental performance and compliance with their consents, while another 22% demonstrated a good level of environmental performance and compliance with their consents. In the 2015-2016 year, 71% of consent holders in Taranaki monitored through tailored compliance monitoring programmes achieved a high level of environmental performance and compliance with their consents, while another 24% demonstrated a good level of environmental performance and compliance with their consents.

1.1.5. Quarrying in Taranaki

Quarry consent holders operate at various locations throughout the region in differing catchments (Tables 1,2 and Figure 1). In the past, a large percentage of aggregate production came from river-based sites within Taranaki. The Waiwhakaiho River supplied much of New Plymouth's requirements as far back as the 1950s with the Waitara River, Waiongana River, Kapuni Stream and Waingongoro River also providing a valuable source of aggregate. The aggregate source within these rivers was often over-utilised. The protective armouring of the boulders and gravel was removed in places, exposing the underlying erodible ash beds and creating deep, narrow channels which moved progressively upstream with no noticeable recovery. This brought about the need for the Shingle Extraction Bylaw introduced in 1974. Aggregate extraction from rivers was then controlled through the issue of permits accompanied by a set of conditions, with the removal of river-based aggregate being restricted to that for river control purposes only.

Historically, land-based sites required steady markets to compete with the easily won river-based extraction operations. However, in the early 1980s, due to the restriction placed on river-based aggregate extraction (and the completion of various major river control programmes and 'Think Big' projects) land-based sites became more widespread (Taranaki Regional Council, 1992).

Currently, there are 26 quarries in the region that are monitored by the Council. These quarries are generally located in a reasonable proximity to urban areas, from which the greatest demand for aggregate stems. Provision of aggregate to meet longer term demand will continue to be dominated by several large quarry operations. Extra demand on alluvial terraces and laharcic deposits has occurred due to the controlled river bed extraction. These resources are of good quality and are relatively plentiful, although Taranaki aggregates are known to have a lower crushing strength (85 kN) than aggregates from most other parts of the country. Importation of various aggregates may need to continue to meet the requirement for aggregate types not available in Taranaki.

Quarrying and shingle extraction in Taranaki is covered by the RMA and, if the minerals in question are Crown owned, by the Crown Minerals Act 1991.

Regional councils have no control over the provision of exclusive rights to minerals. However, regional councils do have control over the environmental effects of aggregate extraction from river and lake beds, and land in certain circumstances, and these controls may act as a constraint or limitation on allocation decisions.

Sections 15 and 30 of the RMA give regional councils responsibility for the discharge of contaminants into the environment. Discharges of water into water, contaminants onto or into land that may result in

water contamination, and contaminants from industrial premises into air or onto/into land, may not take place unless expressly allowed by a rule in a regional plan, a resource consent, or regulations. Aggregate extraction usually involves washing aggregates, and therefore requires the discharge of wastes. Other discharges, such as emissions to air from crushing and processing plants, disposal of spoil and solid wastes, and discharges of stormwater are also the responsibility of regional councils.



Figure 2 Monitored quarries in Taranaki

1.2. Resource consents

1.2.1. 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.

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.

The main potential environment effect on waterways that quarries have is the discharges of stormwater and/or washwater containing high sediment concentrations into surface watercourses. Such discharges can result in discolouration of the waterways and may result in smothering of benthic life forms, form a barrier to fish movement and may affect fish spawning habitats.

All 26 monitored quarries in Taranaki hold resource consents to discharge water.

See table 1 and 2 for a summary of the resource consents issued in relation to quarry operations in Taranaki.

1.2.2. 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.

There are seven monitored quarries in Taranaki that hold a water abstraction consent. Only three of these quarries actively take water for use in quarry operations, the remaining four hold consents to take groundwater incidental to quarrying activity.

1.2.3. 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. The Council permits as of right, some discharges to land (for example clean sand or soil or concrete to land, as occurs during re-instatement). Most other discharges require a resource consent.

There are eight monitored quarries in Taranaki that hold cleanfill discharge consents.

1.2.4. 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.

1.2.5. Summary of resource consents held for Taranaki quarries

A summary of resource consents held by Group B quarries (reported here, covering the 2014-2016 monitoring period) is presented in Table 1.

Table 1 Resource consents held by Group B quarries

Consent holder	Consent number	Consent type	Next review	Location
Horizon Trust Management Limited	9464-1	D _s	1 June 2022	Rangitatau West Road, Maxwell
Vickers Quarries Limited, York Road	4905-3.1	D _s , D _G , D _W	1 June 2018	York Road, Midhurst
	5218-2.1	D _s , D _G	1 June 2018	York Road, Midhurst
	9850-1	IGT	1 June 2018	York Road, Midhurst
	9812-1.1	SM	1 June 2018	York Road, Midhurst
	7615-1	D _C	1 June 2021	York Road, Midhurst
Vickers Quarries Limited, Toko Road	3564-3	D _s , D _W	1 June 2020	Toko Road, Stratford
R A Wallis Limited, Omahuru Road	5719-1	D _s , D _G , D _W	1 June 2017	Omahuru Road, Okaiawa
R A Wallis Limited, Lower Glenn Road	9600-1	D _s	1 June 2017	Lower Glenn Road, Manaia
Ferndene Quarries Limited	6453-1	D _s	Expires June 2020	Upland Road, Tarurutangi
	7089-1	D _C	1 June 2020	Upland Road, Tarurutangi
Taranaki Trucking Company Limited	2293-3	T	1 June 2018	Wiremu Road, Opunake
	2184-3	D _W	1 June 2018	Wiremu Road, Opunake
GR and LJ Jones	6274-1	D _s , D _W	Expires June 2020	Mahoetahi Road, Waitara
	7439-1	D _C	1 June 2020	Mahoetahi Road, Waitara
Gully Rock / Valley Minerals Limited	5124-2	D _s	1 June 2021	Main North Road, Uruti
	6272-1.1	D _W	Expires June 2021	Main North Road, Uruti
	10143-1	SM	1 June 2021	Mokau North Road, Uruti
	10146-1	T	1 June 2021	Mokau North Road, Uruti

KEY: D_s discharge treated stormwater D_W discharge treated wash/wastewater D_G discharge treated groundwater
D_C discharge cleanfill T take water IGT incidental groundwater take
SM stream modifications

Note: Bold review dates occur prior to next biennial report (2016-2018)

A summary of resource consents held by Group A quarries (next scheduled for reporting in 2017, covering the 2015-2017 monitoring period) is presented in Table 2.

Table 2 Resource consents held by Group A quarries

Consent holder	Consent number	Consent type	Next review	Location
AA Contracting	5651-1	D _s	Expired 2014	Te Arei Rd, Lepperton
	5651-2	D _s , D _W	1 June 2032	Te Arei Rd, Lepperton
Boyd Landfarm Quarry	6569-1	D _s , D _W	1 June 2015	Norfolk Rd, Inglewood
Burgess & Crowley	3916-3	D _s , D _G	Surrendered 31 July 2015	East Rd, Stratford
	7963-1	D _s	1 June 2016	East Rd, Stratford
	7964-1	IGT	1 June 2016	East Rd, Stratford
	6505-1	D _C	1 June 2016	East Rd, Stratford

Consent holder	Consent number	Consent type	Next review	Location
Cudby Contracting Limited, Waiteika Road	7519-1	D _s , D _w	1 June 2018	Waiteika Rd, Opunake
Cudby Contracting Limited, Whenuku Road	7845-1.1	D _s , D _G	1 June 2017	Whenuku Rd, Hawera
	10017-1	SM	1 June 2017	Whenuku Rd, Hawera
	10018-1	IGT	1 June 2017	Whenuku Rd, Hawera
D M Bourke	5001-2	D _s	1 June 2017	Onewhaia Rd, Te Roti
	9933-1	D _G	1 June 2017	Onewhaia Rd, Te Roti
	9934-1	IGT	1 June 2017	Onewhaia Rd, Te Roti
Gibson Family Trust, Newall Road	6441-1	D _s	Expires 2019	Upper Newall Rd, Newall
Gibson Family Trust, Puniho Road	9547-1	D _s	1 June 2016	Puniho Rd, Okato
Goodin AG Limited	6585-1	D _s	Expires 2019	Kahui Rd, Rahotu
Hey Family Trust Limited	7123-1	D _s	1 June 2016	Monmouth Rd, Stratford
Jones Quarry Limited	3888-4	D _s	1 July 2020	Hydro Rd, New Plymouth
	3912-4	D _w	1 June 2020	Hydro Rd, New Plymouth
	4912-2	D _c	1 June 2020	Hydro Rd, New Plymouth
RJ Dreaver	9526-1	D _s	1 June 2020	Kairau Road, Brixton
	9527-1	D _c	1 June 2020	Kairau Road, Brixton
Taunt Contracting	5002-2	D _s , D _w	1 June 2016	Bird Rd, Stratford
Waverley Bulk Transport	9570-1	D _s	1 June 2016	Rangitatau West Rd, Waitotara
	9972-1.2	D _c	1 June 2022	Rangitatau West Rd, Waitotara
Whitaker Civil Engineering Limited	7236-1	D _s	1 June 2020	Waiwhakaiho Rd, New Plymouth
	3900-2	D _c	1 June 2020	Waiwhakaiho Rd, New Plymouth
	0720-4	D _w	1 June 2020	Waiwhakaiho Rd, New Plymouth
Winstone Aggregates Limited	1509-3	D _s , D _w	Expires 1 June 2018	Wiremu Rd, Opunake
	1508-3	T	Expires 1 June 2018	Wiremu Rd, Opunake

KEY: D_s discharge treated stormwater D_w discharge treated wash/wastewater D_G discharge treated groundwater
D_c discharge cleanfill T take water for quarrying purposes IGT incidental groundwater take
SM stream modifications

1.3. Monitoring programme overview

1.3.1. Introduction

Section 35 of the RMA sets out obligations upon the Council to gather information, monitor, and conduct research on the exercise of resource consents, and the effects arising, within the Taranaki region and report upon these.

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 quarries reported here may have consisted of up to four 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;
- in discussion over monitoring requirements;
- preparation for any reviews;
- renewals;
- new consents;
- advice on the Council's environmental management strategies and content of regional plans; and
- consultation on associated matters.

1.3.3. Site inspections

Each quarry is subject to a number of physical inspections during each monitoring period. The number of inspections is dependant on the size of the active quarry site and the extent of operations. With regard to consents for the abstraction of or discharge to water, the main points of interest are plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Air inspections focus on plant processes with associated actual and potential emission sources and characteristics, including potential odour, dust, noxious or offensive emissions. Sources of data being collected by the consent holder are also identified and accessed, so that performance in respect of operation, internal monitoring, and supervision can be reviewed by the Council. The neighbourhood is also surveyed for environmental effects.

1.3.4. Physicochemical sampling

The Council may undertake sampling of site discharges and sampling of the receiving environment where it is warranted. Sampling sites are selected on the basis that they enable an assessment of the effect of any discharges on the receiving environment. The range of parameters that samples are analysed for include conductivity, pH, suspended solids and turbidity. In some instances hydrocarbons may be analysed.

1.3.5. Data review

Some quarries hold resource consents which require them to record and provide the Council with water abstraction data. Council reviews these records to ensure that the required records are being kept and that the abstraction has been managed according to the requirements of the consent.

1.3.6. Biomonitoring surveys

If deemed necessary, biological surveys may be performed in tributaries or streams neighbouring the quarry site to determine whether or not any discharges have had a detrimental effect upon the aquatic communities.

1.4. Investigations, interventions, and incidents

Each quarry monitoring programme was based on what was considered to be an appropriate level of monitoring, review of data, and liaison with the consent holder. During the period of monitoring matters may arise which require additional activity by the Council, for example provision of advice and information,

or investigation of potential or actual courses of non-compliance or failure to maintain good practices. A pro-active approach that in the first instance avoids issues occurring is favoured.

The Council operates and maintains a register of all complaints or reported and discovered excursions from acceptable limits and practices, including non-compliance with consents, which may damage the environment. The Unauthorised Incident Register (UIR) includes events where the Company concerned has itself notified the Council. The register contains details of any investigation and corrective action taken.

Complaints may be alleged to be associated with a particular site. If there is potentially an issue of legal liability, the Council must be able to prove by investigation that the identified company is indeed the source of the incident (or that the allegation cannot be proven).

Unless otherwise stated in the site specific report card section, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with the Company during the 2014-2016 period.



Horizon Trust Management Limited

First Compliance Monitoring Report
2012-2016

2. Horizon Trust Management Limited

2.1. Introduction

Horizon Trust Management Limited (the Company) operates a quarry located on Rangitatau West Road, on the southern boundary of Taranaki, approximately 10 kilometres northeast of Waitotara (Figure 3). The quarry was established in 2008 and a resource consent was granted in 2013 after plans to expand the site deemed it necessary. As this is the first compliance monitoring report for this quarry, it covers the period from which the resource consent was issued until 30 June 2016.

Excavation at the site is carried out in such a way that the grading of the floor is contoured so any stormwater will drain towards drainage channels. These channels transport the stormwater to settlement ponds, where it then naturally drains away through the porous subsurface material. When work begins in a new area, a drainage ditch is dug at the top of the bank (out of overburden) to reduce the amount of stormwater that runs over the bank and down into the work area. As the active work area of the site moves west and the 'worked area' of the quarry is reinstated, new ponds and drainage channels will be constructed to ensure they stay close to the current working area.



Figure 3 Horizon Trust Management Limited quarry site location

2.2. Resource consents

9464-1 To discharge stormwater onto and into land from quarry activities

Granted: 7 February 2013

Review: June 2022

Expiry: 1 June 2028

2.3. Compliance monitoring programme

The Council's monitoring programme for the Company includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

2.4. Environmental and administrative performance summary

Five inspections were undertaken at the Company's quarry from the granting of the consent until 2016; four of which were carried out within the 2014-2016 monitoring period. The inspections found that the site was well managed throughout the monitoring period, as the active quarry face moved west. Bunding was maintained around the boundary of the quarry and stormwater was directed to the settling ponds. Sections of the site were being reinstated during the final two inspections.

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

Table 3 Summary of compliance with consent 9464-1 over the 2012-2016 monitoring period

Purpose: To discharge stormwater onto and into land		
Condition requirement	Means of monitoring during period under review	Achieved
1. Active quarry area not to exceed 2 hectares at any one time	Site inspections	Yes
2. All stormwater to pass through ponds or traps of minimum capacity (stated)	Site inspections	Yes
3. Reinstatement of earthworked areas as soon as practicable	Site inspections	Yes
4. Adopt best practicable option to prevent or minimise adverse environmental effects	Site inspections	Yes
5. Consent lapse clause	Resource consent has been given effect	N/A
6. Review clause	Next optional review June 2022	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

The Company received a high rating for their consent compliance and administrative performance in the monitoring period from 7 January 2013 to 30 June 2016, as all quarry activities were compliant with the specified consent conditions.

2.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's Rangitatau West Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.



Vickers Quarries Limited, York Road

21st Compliance Monitoring Biennial Report
2014-2016

3. Vickers Quarries Limited, York Road

3.1. Introduction

Vickers Quarries Limited operates a quarry on York Road situated adjacent to the Egmont National Park, approximately six kilometres west of Midhurst. The site was first excavated in 1945 and has since been operated by various companies. Vickers Quarries Limited (the Company) began operating at this quarry in 1996.



Figure 4 Vickers Quarries Limited York Road quarry site location

The quarry is separated into two main areas: a bottom site, and a top site (Figure 4). Site access from York Road leads directly to the bottom site, which is bounded by the Manganui River and an unnamed tributary of the Waipuku Stream. The area contains offices, stock piles, processing and load out areas, a wash plant and settlement ponds. Service water is recycled for aggregate washing. The treated stormwater and washwater discharge from this part of the quarry is directed to the unnamed tributary of the Waipuku Stream.

A 500 metre access road connects the bottom site to the top site. This top site was original bounded by the Egmont National Park, the Manganui River and the unnamed tributary of the Waipuku Stream. However the quarry has since expanded north to the other side of this tributary. Excavation efforts are now focused on the expanded site north of the tributary. Currently, stormwater from this excavation area is directed back down the access road and piped across the tributary into the bottom site, where it then enters the settlement ponds. Once the quarry floor is low enough, the stormwater will be redirected to the

settlement pond system in the top site. These top settlement ponds currently treat the stormwater and incidental groundwater generated in the top site. The ponds discharge into an unnamed tributary of the Manganui River.

The quarry also has a designated cleanfill in the top site where it receives permitted wastes.

3.2. Resource consents

4905-3.1 To discharge treated stormwater, groundwater and washwater from a quarry site onto and into land and into an unnamed tributary of the Waipuku Stream

Granted: 22 May 2014

Review: June 2018

Expiry: 1 June 2027

5218-2.1 To discharge treated stormwater and groundwater seepage from quarry operations into an unnamed tributary of the Manganui River

Granted: 22 May 2014

Review: June 2018

Expiry: 1 June 2027

9850-1.0 To take groundwater incidental to quarry operations

Granted: 22 May 2014

Review: June 2018

Expiry: 1 June 2027

9812-1.1 To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream, in association with quarry operations

Granted: 22 May 2014

Review: June 2018

Expiry: 1 June 2027

7615-1 To discharge cleanfill onto and into land at or about (NZTM) 1701549E-5650156N

Granted: 17 February 2010

Review: June 2021

Expiry: 1 June 2027

3.3. Compliance monitoring programme

The York Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

3.4. Environmental and administrative performance summary

Eight inspections were undertaken at the Company's York Road quarry from 1 July 2014 until 30 June 2016. The inspections found that the quarry was well managed throughout the monitoring period. All stormwater and groundwater from the top site appeared to be directed through settlement ponds before discharging to the Manganui River. Stormwater, washwater and groundwater from the lower site was also directed through settlement ponds before discharging to the unnamed tributary of the Waipuku Stream. The settlement ponds appeared to be well maintained over the course of the inspections. There was not a lot of material found to have been dumped in the cleanfill; only permitted materials were present. The new extraction area was opened during the monitoring period, including development of the access track and bridge over the tributary of Waipuku Stream. All stormwater from the new extraction area was directed through the silt trap at the bridge, piped across the tributary to the processing area, and directed into the existing settlement pond system.

On 27 June 2016, water samples were collected at both of the quarry's discharge points (Tables 4 and 5; Figures 4 and 5). Discharge samples were collected at each location, in conjunction with upstream and downstream samples from the receiving waters. All samples were within their consent limits. Neither discharge was having a detectable effect on the receiving waters.

Table 4 Results from discharge sample and Waipuku Stream samples (4905-3.1)

Discharge to unnamed tributary of Waipuku Stream (4905-3.1), 27 June 2016						
Parameter	Unit	Discharge		Upstream sample	Downstream	
		Sample	Consent limit		Sample	Consent limit
Conductivity	mS/m @ 20C	12.8	-	3.7	4.5	-
Visible hydrocarbons	Pass/Fail	Pass	-	Pass	Pass	-
pH	pH	6.7	6.0 – 9.0	7	6.9	-
Suspended solids	g/m ³	6	100	3	4	16
Temperature	°C	10.2	-	9.1	9.2	-
Turbidity	NTU	7	-	0.95	1.3	-

Note: Downstream consent limits are calculated based on upstream turbidity, as outlined in special condition 11 of resource consent 4905-3.1

Table 5 Results from discharge sample and Manganui River samples (5218-2.1)

Discharge to unnamed tributary of Manganui River (5218-2.1), 27 June 2016						
Parameter	Unit	Discharge		Upstream sample	Downstream	
		Sample	Consent limit		Sample	Consent limit
Conductivity	mS/m @ 20C	13.7	-	3.4	5	-
Visible hydrocarbons	Pass/Fail	Pass	-	Pass	Pass	-
pH	pH	6.7	6.0 – 9.0	7.1	6.9	-
Suspended solids	g/m ³	8	100	20	19	-
Temperature	°C	9.6	-	8.2	8.4	-
Turbidity	NTU	7.9	-	7.9	9	11.85

Note: Downstream consent limits are calculated based on upstream turbidity, as outlined in special condition 11 of resource consent 5218-2.1



Photo 1 Left: Manganui Stream, upstream of discharge. Centre: Discharge from top site into Manganui Stream. Right: Manganui Stream, downstream of discharge.

A tabular summary of the Company's compliance record at York Road for the period under review is set out in Tables 6-10.

Table 6 Summary of compliance with consent 4905-3.1 over the 2014-2016 monitoring period

Purpose: To discharge treated stormwater, groundwater and washwater onto and into land and into an unnamed tributary of the Waipuku Stream		
Condition requirement	Means of monitoring during period under review	Achieved
1. Provision of quarry stage plan	Consent holder liaison	Yes
2. Buffer zone requirements	Plan not yet submitted	N/A
3. Provision of stormwater management plan	Consent holder liaison	No
4. Adopt best practicable option	Site inspections	Yes
5. Site reinstatement to minimise exposed earth	Site inspections	Yes
6. Stormwater catchment not to exceed 36 hectares	Site inspections	Yes
7. Operation and maintenance of settlement ponds	Site inspections	Yes
8. No direct discharge of untreated stormwater or groundwater	Site inspections	Yes
9. Limits on constituents of discharge	Sampling	Yes
10. Discharge shall not give rise to adverse effects in receiving waters	Site inspections	Yes
11. Turbidity / suspended solids limits downstream of discharge	Sampling	Yes
12. Isolation and re-circulation of washwater system	Site inspections	Yes
13. Notification prior to change in quarry operation	Consent holder liaison	Yes
14. Review clause	Next optional review June 2018	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		Good

Table 7 Summary of compliance with consent 5218-2.1 over the 2014-2016 monitoring period

Purpose: To discharge treated stormwater and groundwater seepage into an unnamed tributary of the Manganui River		
Condition requirement	Means of monitoring during period under review	Achieved
1. Provision of quarry stage plan	Consent holder liaison	Yes

Purpose: To discharge treated stormwater and groundwater seepage into an unnamed tributary of the Manganui River		
Condition requirement	Means of monitoring during period under review	Achieved
2. Buffer zone requirements	Plan not yet submitted	N/A
3. Provision of stormwater management plan	Consent holder liaison	No
4. Adopt best practicable option	Site inspections	Yes
5. Site reinstatement to minimise exposed earth	Site inspections	Yes
6. Stormwater catchment not to exceed 36 hectares	Site inspections	Yes
7. Operation and maintenance of settlement ponds	Site inspections	Yes
8. No direct discharge of untreated stormwater or groundwater	Site inspections	Yes
9. Limits on constituents of discharge	Sampling	Yes
10. Discharge shall not give rise to adverse effects in receiving waters	Site inspections	Yes
11. Turbidity / suspended solids limits downstream of discharge	Sampling	Yes
12. Notification prior to change in quarry operation	Consent holder liaison	Yes
13. Review clause	Next optional review June 2018	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		Good

Table 8 Summary of compliance with consent 9850-1.0 over the 2014-2016 monitoring period

Purpose: To take groundwater incidental to quarry operations		
Condition requirement	Means of monitoring during period under review	Achieved
1. Provision of quarry stage plan	Consent holder liaison	Yes
2. Buffer zone requirements	Plan not yet submitted	N/A
3. Provision of stormwater management plan	Consent holder liaison	No
4. Groundwater take incidental to quarrying activities	Site inspections	N/A

Purpose: To take groundwater incidental to quarry operations		
Condition requirement	Means of monitoring during period under review	Achieved
5. Notification prior to work commencement	Consent holder liaison	Yes
6. Adopt best practicable option	Site inspections	Yes
7. Consent lapse	Lapse date 1 June 2027	N/A
8. Review clause	Next optional review June 2018	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		Good

Table 9 Summary of compliance with consent 9812-1.1 over the 2014-2016 monitoring period

Purpose: To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream		
Condition requirement	Means of monitoring during period under review	Achieved
1. Provision of quarry stage plan	Consent holder liaison	Yes
2. Buffer zone requirements	Plan not yet submitted	N/A
3. Provision of stormwater management plan	Consent holder liaison	No
4. Streambed disturbance and reclamation to comply with stormwater management plan	Site inspections	N/A
5. Adopt best practicable option	Site inspections	Yes
6. Notification prior to work commencement	Consent holder liaison	Yes
7. Consent lapse	Lapse date 1 June 2027	N/A
8. Review clause	Next optional review June 2018	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		Good

Table 10 Summary of compliance with consent 7615-1 over the 2014-2016 monitoring period

Purpose: To discharge cleanfill onto and into land		
Condition requirement	Means of monitoring during period under review	Achieved
1. Discharge shall only occur in area indicated by plan	Site inspections	Yes
2. Discharge contaminants shall be limited to cleanfill and inert materials	Site inspections	Yes
3. Discharge of specified contaminants shall not occur	Site inspections	Yes
4. Written approval from Consents Manager to be obtained by consent holder if uncertain whether contaminant is acceptable or not	N/A	N/A
5. Adopt best practicable option	Site inspections	Yes
6. Stabilisation and revegetation on completion of authorised discharge	Site inspections	Yes
7. Consent lapse	N/A	N/A
8. Review clause	Next optional review June 2021	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

During the period under review, the Company demonstrated an overall high level of environmental performance and a good level of administrative performance with the resource consents as defined in Section 1.1.4. The Company failed to receive a high rating for their administrative performance as they did not provide the Council with a detailed stormwater management plan before the deadline stated in four of their resource consents.

3.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's York Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.

3.6. Exercise of optional review of consents

Resource consents 4905-3.1, 5218-2.1, 9850-1 and 9812-1.1 all provide for an optional review of the consent in June 2018. Conditions 14, 13, 8 and 8 allow the Council to review each consent, respectively. This can be exercised if there are grounds to suggest that the conditions are inadequate to deal with adverse effects on the environment from the exercise of the consent.

Based on the results of monitoring in the years under review, and in previous years as set out in earlier compliance monitoring reports, it is considered that there are no grounds that require a review to be pursued. However, as this monitoring programme is reported on a biennial cycle, the Council reserves the right to action any of the optional reviews, as circumstances may arise over the next 12 months which may deem it necessary.



Vickers Quarries Limited, Toko Road

21st Compliance Monitoring Biennial Report
2014-2016

4. Vickers Quarries Limited, Toko Road

4.1. Introduction

Vickers Quarries Limited (the Company) also operates a quarry on Toko Road located on the true left bank of the Patea River, approximately 500 m below the confluence with the Toko Stream (Figure 5). Quarrying began at this site in 1975.



Figure 5 Vickers Quarries Limited Toko Road quarry site location

An earth bund runs along the north-western boundary, separating the quarry site from the Patea River. The existing extraction area and the aggregate stockpile area lay within a basin; retaining much of the stormwater, which eventually soaks away. If required, the extraction area can be dewatered by pumping the excess water into the settlement pond system. Access roads from the northern area slope down to the southern area of the site. The quarry floor slopes away from the Patea River. A wide perimeter drain runs along the north-eastern boundary of the site and drains to the settlement pond system. There are also three silt traps which intercept and pre-treat stormwater on the quarry floor. The settlement pond system consists of two ponds, each with an approximate capacity of 1,500 m³. Stormwater is directed through the ponds and discharges onto a gravel beach of the Patea River during low flows or directly to water during

high flows. Water is recycled from the sediment ponds for washing the aggregate. Discharges from this process are directed into silt traps on the quarry floor for pre-treatment prior to going back into the sediment pond system for continued treatment.

4.2. Resource consents

3564-3 To discharge treated stormwater and treated aggregate washwater from a quarry site into the Patea River at or about (NZTM) 1721850E-5643115N

Granted: 18 June 2010

Review: No further reviews

Expiry: 1 June 2020

4.3. Compliance monitoring programme

The Toko Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

4.4. Environmental and administrative performance summary

Seven inspections were undertaken at the Toko Road quarry from 1 July 2014 until 30 June 2016. The quarry was well managed throughout the monitoring period, during which time the extraction area was relocated. The old extraction pit was converted into a pond and significant reinstatement works were undertaken in the surrounding area (Photo 2). Inspections found that all stormwater was being directed through the silt and sediment controls. These controls, including the settlement ponds, were well found to be well maintained.

On 27 June 2016, a water sample was collected from the settlement pond discharge (Table 11). The sample was cloudy; however it complied with the consent limit for suspended solids. The discharge did not have an observable effect on the receiving waters beyond the designated mixing zone (Photo 2).

Table 11 Results from discharge sample (3564-3)

Discharge to the Patea River (3564-3), 27 June 2016			
Parameter	Unit	Discharge sample	Consent limits
Conductivity	mS/m @ 20C	22.7	-
Visible hydrocarbons	Pass/Fail	Pass	-
pH	pH	6.9	6.0 – 9.0
Suspended solids	g/m ³	23	100
Temperature	°C	10.8	-
Turbidity	NTU	26	-



Photo 2 A: Pond conversion and reinstated paddocks. B: Settlement pond discharge point. C: Discharge mixing with Patea River.

A tabular summary of the Company's compliance record at Toko Road for the period under review is set out in Table 12.

Table 12 Summary of compliance with consent 3564-3 over the 2014-2016 monitoring period

Purpose: To discharge treated stormwater and treated aggregate washwater into the Patea River		
Condition requirement	Means of monitoring during period under review	Achieved
1. Requires all run off to be directed through sediment traps or settling ponds	Site inspections	Yes
2. Requires active quarry area to be bunded	Site inspections	Yes
3. Suspended solids in settlement pond discharge not to exceed 100g/m ³	Sampling	Yes
4. Discharge shall not give rise to adverse effects in receiving waters	Site inspections	Yes
5. Consent holder shall maintain a contingency plan and provide it to the Council	Received	Yes
6. Consent holder shall progressively reinstate the quarry site	Site inspections	Yes

Purpose: To discharge treated stormwater and treated aggregate washwater into the Patea River		
Condition requirement	Means of monitoring during period under review	Achieved
7. A site rehabilitation plan shall be provided to the Council prior to the completion of extraction activities	Consent holder liaison	N/A
8. Consent holder must rehabilitate the site, in accordance with condition 7, prior to consent expiry or surrender.	Site inspections	N/A
9. Review clause	No further optional reviews	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

During the period under review, Vickers demonstrated a high level of environmental and administrative performance with the resource consent held for the Toko Road quarry, as defined in Section 1.1.4.

4.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of Vickers' Toko Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.



R A Wallis Limited, Omahuru Road

13th Compliance Monitoring Biennial Report
2014-2016

5. R A Wallis Limited, Omahuru Road

5.1. Introduction

R A Wallis Limited (the Company) operates a quarry on Omahuru Road located adjacent to the true right bank of the Waingongoro River, approximately five kilometres north east of Okaiawa (Figure 6). The quarry first began operating in 2002.

Aggregate is excavated and processed at the site using a dry crusher, screening plant and digger. Stormwater, washwater and groundwater from the operation is directed to settling ponds before being discharged into the Waingongoro River. A riparian buffer zone of undisturbed land approximately 6 metres wide separates the active site from the Waingongoro River.



Figure 6 R A Wallis Limited Omahuru Road quarry site location

5.2. Resource consents

5719-1 To discharge treated washwater, groundwater and stormwater from quarry operations into land and into the Waingongoro River at or about GR: Q21: 174-882

Granted: 21 March 2001 **Review:** No further reviews

Expiry: 1 June 2017

5.3. Compliance monitoring programme

The Omahuru Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

5.4. Environmental and administrative performance summary

The Omahuru Road quarry was inspected twice between 1 July 2014 and 30 June 2016. There was relatively little activity at the quarry over the monitoring period. Correspondence with the consent holder on 12 October 2015 indicated that site reinstatement was planned for the two upcoming summers, and that the only further extraction of aggregate would be from the floor of the existing quarry pit. No issues were noted during either inspection with regards to stormwater.

A tabular summary of the Company's compliance record at Omahuru Road for the period under review is set out in Table 13.

Table 13 Summary of compliance with consent 5719-1 over the 2014-2016 monitoring period

Purpose: To discharge treated washwater, groundwater and stormwater into land and into the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Achieved
1. Adoption of best practicable option to minimise adverse effects of discharge	Site inspections and discussions with consent holder	Yes
2. Maximum disturbed stormwater catchment area no more than 2ha	Site inspections and discussions with consent holder	Yes
3. Washing area bunded, and recirculatory systems implemented	Site inspections and discussions with consent holder	Yes
4. No discharge of untreated wastewater to Waingongoro River	Site inspections	Yes
5. Active quarry site bunded to direct all stormwater to treatment system	Site inspections	Yes
6. No effects in receiving water	Inspections of receiving water	Yes
7. Limits on turbidity	Inspections of discharge point and receiving water. No discharge sampling warranted	Yes
8. Limits on pH and suspended solids	Inspections of discharge point and receiving water. No discharge sampling warranted	Yes
9. Progressively reinstate quarry to minimise exposed area	Site inspections	Yes
10. Properly maintain and operate settling ponds system to minimise discharge	Site inspections and discussion with consent holder	Yes

Purpose: To discharge treated washwater, groundwater and stormwater into land and into the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Achieved
11. Prepare and maintain contingency plan	Contingency plan received and approved by Council in July 2003	Yes
12. Reinstatement of site	Quarry still active	N/A
13. Lapse	Consent exercised	Yes
14. Back flow prevention device on discharge pipe	Site inspections and discussion with consent holder	Yes
15. Provision for review of conditions	Consent expires 1 June 2017	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

During the period under review, the Company demonstrated a high level of environmental and administrative performance with the resource consent held for the Omahuru Road quarry, as defined in Section 1.1.4.

5.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's Omahuru Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.



R A Wallis Limited, Lower Glenn Road

First Compliance Monitoring Biennial Report
2014-2016

6. R A Wallis Limited, Lower Glenn Road

6.1. Introduction

R A Wallis Limited (the Company) also operates a quarry on Lower Glenn Road located adjacent to the true left bank of the Kaupokonui River, approximately four kilometres west of Manaia.

The total site is divided into two areas (northern and southern) which are separated by an oxbow feature created by the stream. The quarrying area is divided into three blocks of land that will be excavated and reinstated separately. Excavation has only occurred in block two since the quarry's resource consent was granted in 2013.

During the monitoring period under review, a number of issues were discovered in relation to stormwater discharges from the site (discussed further in section 6.3). Since the end of the 2014-2016 monitoring period, the Company have undertaken the necessary steps to ensure environmental compliance.



Photo 3 R A Wallis Limited's Lower Glenn Road Quarry excavation pit, facing north east

6.2. Resource consents

9600-1 To discharge stormwater onto and into land from quarrying activities

6.3. Compliance monitoring programme

The Lower Glenn Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

6.4. Environmental and administrative performance summary

Six routine inspections were undertaken at the Lower Glenn Road quarry from 1 July 2014 until 30 June 2016. A buffer zone between the quarry and the river was planted at the outset of monitoring. Subsequent inspections identified some issues in relation to the discharges from site. The settlement ponds were installed closer to the river than what was initially proposed. Instead of discharging to land, it was discovered that the outlet from the final pond led to the Kaipokonui River. The discharge from the pond system directly contravened the purpose of consent 9600-1; which permits a discharge to land. Discussions with the consent holder revealed that the discharge from the ponds was likely to consist primarily of groundwater, as the pipe from pond one to pond two had never been seen to discharge, and the level of the ponds appear to remain constant year round. Only clear discharges have been noted from the final pond. The results from a sample collected on 27 June 2016 were also indicative of a relatively clean discharge (Table 14). Another issue identified during the monitoring period was the pipe that had been installed in the new extraction area; draining stormwater from the extraction area down into the small wetland where it was initially proposed that the ponds would be located (Photo 3). The consent holder was instructed to ensure that all discharges from site are treated prior to entering the receiving environment.

A complaint was received on 14 January 2016 concerning dust beyond the quarry boundary. At the time of the inspection there was no noticeable dust beyond the site boundary. However, with the movement of vehicles on site it was conceivable that dust could become an issue during strong winds. The quarry is now equipped with a mobile water cart to suppress dust when required.

Table 14 Results from discharge sample (unauthorised discharge at Lower Glenn Road)

Discharge to the Kaipokonui River (unauthorised), 27 June 2016		
Parameter	Unit	Discharge sample
Conductivity	mS/m @ 20C	29.6
Visible hydrocarbons	Pass/Fail	Pass
pH	pH	7.3
Suspended solids	g/m ³	5
Temperature	°C	14.3
Turbidity	NTU	3.4

A tabular summary of the Company's compliance record at Lower Glenn Road for the period under review is set out in Table 15.

Table 15 Summary of compliance with consent 9600-1 over the 2014-2016 monitoring period

Purpose: To discharge stormwater onto and into land		
Condition requirement	Means of monitoring during period under review	Achieved
1. Active quarry area not to exceed 6 ha at any one time	Site inspections	Yes
2. All runoff to pass through ponds or traps of minimum stated capacity	Site inspections	No
3. Condition two no longer need apply for areas that have undergone reinstatement	Site inspections	Yes
4. Quarried areas to be reinstated as soon as practicable	Site inspections	Yes
5. Notify the Council seven days prior to commencement of work	Consent holder liaison	Yes
6. Consent holder to adopt best practicable option	Inspections	No
7. Consent lapse	Consent has been given effect	N/A
8. Review clause	Next optional review in June 2017	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Improvement required
Overall assessment of administrative performance in respect of this consent		High

During the period under review, the Company demonstrated a level of environmental performance which required improvement. The discharge to the river directly contravened the purpose of the consent which only permits discharges to land. However, the results of the inspections and sampling found that there were no observable effects on the receiving waters, as the discharge was sufficiently treated. The other, untreated discharge to the small wetland was non-compliant with condition seven of the consent as the best practicable option had not been adopted to prevent or minimise potential adverse effects on the environment. However, wider environmental effects were unlikely as the wetland was surrounded by pasture, isolating it from the river and another expanse of wetland. The Company demonstrated a high level of administrative compliance during the year under review. Ratings are defined in Section 1.1.4.

Since the monitoring period, the Company have decided to redirect the discharge to land instead of changing the consent to permit the discharge to water. Also, an assessment of the site found that the pond system was not permitted under the Regional Freshwater Plan, due to its proximity to the river. Accordingly, the Company have applied for a retrospective consent for the works that were undertaken in constructing the ponds. Finally, the Company have installed a small settlement pond to treat all discharges from the extraction area prior to discharging into the wetland.

6.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's Lower Glenn Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.

6.6. Exercise of optional review of consent

Resource consent 9600-1 provides for an optional review of the consent in June 2017. Condition eight allows the Council to review this consent, if there are grounds to suggest that the conditions are inadequate to deal with adverse effects on the environment from the exercise of the consent.

Based on the results of monitoring in the years under review, it is considered that there are no grounds that require a review to be pursued.



Ferndene Quarries Limited

Fifth Compliance Monitoring Report 2014-2016

7. Ferndene Quarries Limited, Upland Road

7.1. Introduction

Ferndene Quarries Limited (the Company) operates a quarry situated on the true right of an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment, at Upland Road, Egmont Village (Figure 7). Activities carried out on site include the extraction of aggregate, and the crushing, sorting and stockpiling of aggregate. No washing is undertaken on site, and consequently the only discharge from the site is stormwater. This stormwater is likely to contain suspended sediment, and may potentially carry hydrocarbons lost from the operating machinery.

This quarry began operating in 2004. At the extraction area, situated upstream of the Ferndene speedway, stormwater is collected at the bottom of the extraction pit. It was initially intended to pump the water from the pit to a settling pond from where it would discharge via a pipe to the unnamed tributary. However, the operator has opted to let the water settle in the extraction pit, and then pump it directly to the unnamed tributary.

Stormwater at the processing site is directed to two settling ponds, set in series. The final settling pond discharges to the unnamed tributary.

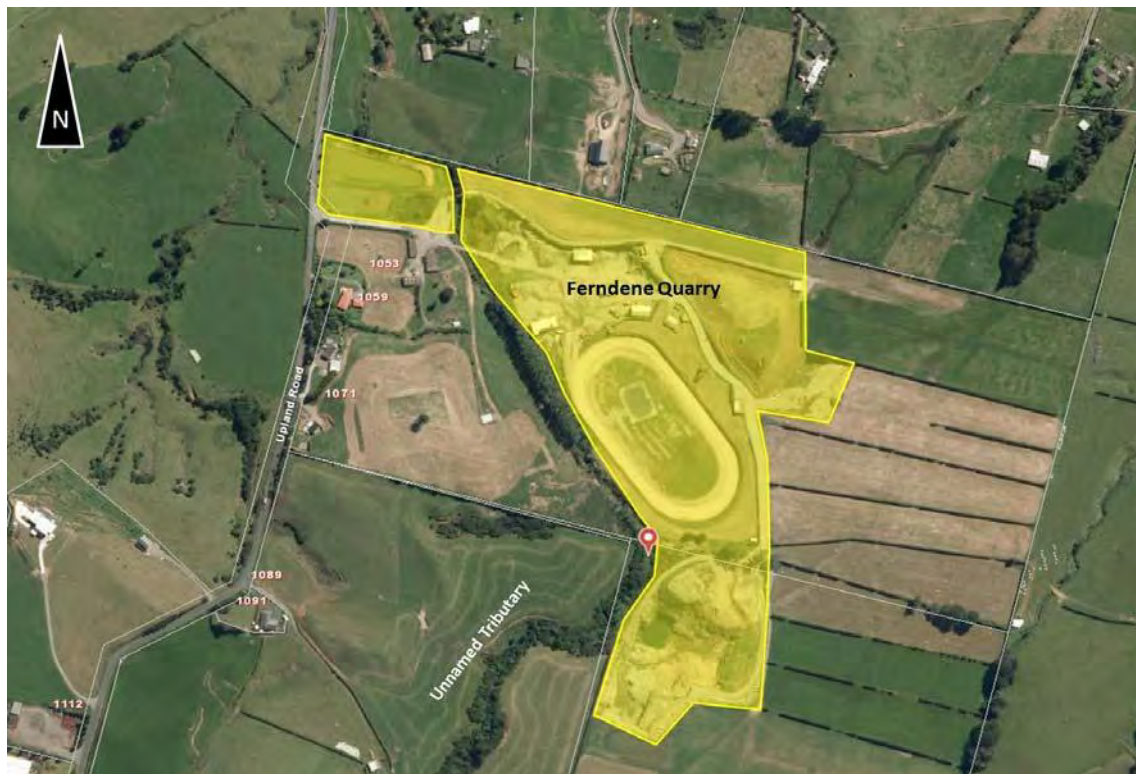


Figure 7 Ferndene Quarry site location map

Ferndene Quarry site location map

7.2. Resource consents

6453-1 To discharge treated stormwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment

Granted: 16 September 2004 **Review:** No further reviews **Expiry:** 1 June 2020

7089-1 To discharge cleanfill onto and into land for quarry reinstatement purposes

Granted: 2 April 2007 **Review:** June 2020 **Expiry:** 1 June 2026

7.3. Compliance monitoring programme

The Company's monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

7.4. Environmental and administrative performance summary

Six inspections were undertaken at the Upland Road quarry site within the 2014-2016 monitoring period. The inspections found that the site was generally well managed throughout the monitoring period, with no dust or odour issues detected beyond the site boundary, and overall good housekeeping at the site. During the November 2015 inspection it was noted the retention ponds required maintenance. This work was completed by the site operator prior to the following inspection. The operator was also reminded on two occasions to ensure all waste going to cleanfill is inert, on one occasion the operator was required to remove some construction materials from the cleanfill. During the inspections where the retention ponds were discharging, it was noted that the discharge was visually clear and no impacts were noted on the receiving waters of the tributary.

A tabular summary of the Company's compliance record for the period under review is set out in Tables 16 and Table 17.

Table 16 Summary of compliance with consent 6453-1 over the 2014-2016 monitoring period

Purpose: To discharge treated stormwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment		
Condition requirement	Means of monitoring during period under review	Achieved
1. Best practicable option	Site inspections	Yes
2. Exercise of consent in accordance with application	Site inspections	Yes
3. No direct discharge of untreated stormwater	Inspections of treatment system and discharge point	Yes
4. Bunding of site to contain contaminated waters	Site inspections	Yes

Purpose: To discharge treated stormwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment		
Condition requirement	Means of monitoring during period under review	Achieved
5. Take measures to prevent erosion of exposed areas	Site inspections	Yes
6. Progressive reinstatement of quarry	Site inspections	Yes
7. Maximum stormwater catchment	Site inspections	Yes
8. Management of the silt control structures	Inspections of the silt control structures	Yes
9. Concentration limits	Inspections of discharge point and receiving water. No discharge sampling warranted	Yes
10. No effects on receiving water below mixing zone	Inspections of receiving water	Yes
11. Limits on turbidity & suspended solids	Inspections of discharge point and receiving water. No discharge sampling warranted	Yes
12. Provision of site plan, stormwater management plan and contingency plan	Plans received	Yes
13. Reinstatement of quarry	Quarry still operating	N/A
14. Consent lapse	N/A	N/A
15. Review	This consent will expire in 2020	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

Table 17 Summary of compliance with consent 7089-1 over the 2014-2016 monitoring period

Purpose: To discharge cleanfill onto and into land for quarry reinstatement purposes		
Condition requirement	Means of monitoring during period under review	Achieved
1. Exercise of consent to be in accordance with information submitted	Site inspections	Yes
2. Materials permitted to be disposed of to cleanfill	Site inspections	Yes
3. Materials not permitted to be disposed of to cleanfill	Site inspections – some construction materials had to be removed – further inspections found no prohibited material	Yes
4. No contaminants entering water	Inspections of site	Yes

Purpose: To discharge cleanfill onto and into land for quarry reinstatement purposes		
Condition requirement	Means of monitoring during period under review	Achieved
5. Maintain silt retention structures	Inspections of site	Yes
6. Install and maintain stormwater diversion drains	Inspections of site	Yes
7. Cleanfill management plan	Received	Yes
8. Adopt best practicable option	Inspections of site	Yes
9. Stabilisation and revegetation of site	N/A	N/A
10. Review	Next optional review in June 2020	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

The Company received a high rating for their consent compliance and administrative performance in the monitoring period from 1 July 2014 to 30 June 2016, as all quarry activities were assessed as compliant, or were immediately upon discovery made compliant, with the specified consent conditions.

7.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's Upland Road quarry site in the 2016-2018 period continues at the same level as in 2014-2016.



Taranaki Trucking Company Limited

Thirteenth Compliance Monitoring Report
2014-2016

8. Taranaki Trucking Company Limited, Wiremu Road

8.1. Introduction

Taranaki Trucking Company Limited (the Company) operates a quarry site located in an area of farmland accessed off Wiremu Road (Figure 8). The active site covers approximately 6.4 ha. The site was originally developed into a quarry by the Egmont County Council in 1987. The consents passed to the South Taranaki District Council when it was formed, and later transferred to the Company in February 1993.

Aggregate is excavated from volcanic debris flow material and washing is carried out on site. Processing washwater and site stormwater are directed through a network of open drains to the settling ponds. A washwater recirculation system is in place to maximise the efficiency of water use and minimise the volume of treated washwater discharged from the ponds into the unnamed tributary of the Heimama Stream. Discharge from the final treatment pond only occurs periodically.

As part of the washing process the Company holds one consent to abstract water from an excavated pond in the vicinity of the Heimama Stream tributary. Water is pumped as required (maximum daily rate of 320 m³/day) using a centrifugal pump to the processing area for washing. Because of the recirculation system, actual water abstraction rates are significantly lower than the consented limit.

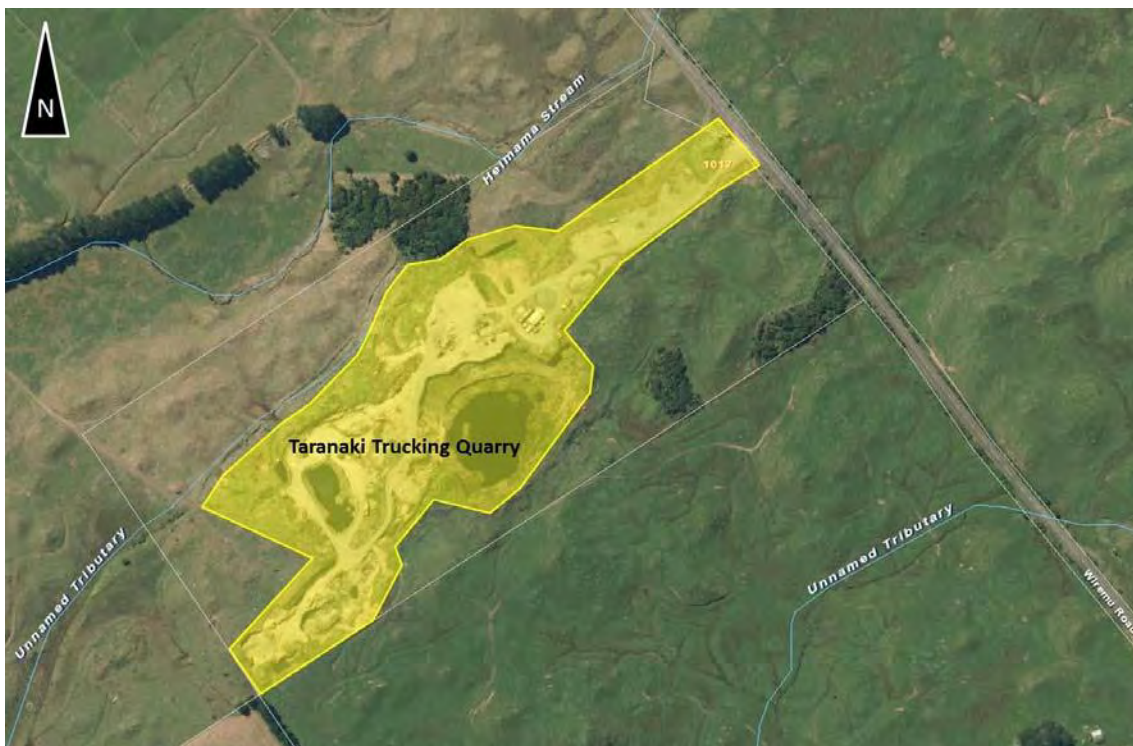


Figure 8 Taranaki Trucking Quarry site location map, Wiremu Road

8.2. Resource consents

2184-3 To discharge treated wastewater from quarry operations into an unnamed tributary of the Heimama Stream

Granted: 30 November 2012 **Review:** June 2018, June 2024 **Expiry:** 1 June 2030

2293-3 To take water from an excavated pond in the vicinity of an unnamed tributary of the Heimama Stream for quarrying operations

Granted: 30 November 2012 **Review:** June 2018 June 2024 **Expiry:** 1 June 2030

8.3. Compliance monitoring programme

The Company's monitoring programme includes four components, namely: programme liaison and management with consent holders and affected parties, review of water abstraction data, site inspections, and chemical sampling when required.

8.4. Environmental and administrative performance summary

Six inspections were undertaken at the Wiremu Road site within the 2014-2016 monitoring period. The inspections found that the site was generally well managed throughout the monitoring period, and was operating within consent conditions. Site bunding and water treatment systems were operating effectively with no issues. On five of the inspections the site was actively processing product. On one of these occasions there was some dust noted due to heavy vehicle movements, however, this was well contained within the site boundary. Two inspections noted there was a small discharge of water from the final pond to the tributary, which was described as low volume and visually clear. No obvious impacts were observed in the tributary.

The Company have not however met the administrative requirements stipulated in water abstraction consent 2293-3, regarding the supply of abstraction rate data. At the time of reporting, an incident has been raised and the Company have been issued an abatement notice requiring them to complete verification of their water meter and supply recorded data as per special conditions 1, 3, 6, 7 and 8 of their consent.

A tabular summary of Taranaki Trucking's compliance record for the period under review is set out in Tables 18 and 19.

Table 18 Summary of compliance with consent 2184-3 over the 2014-2016 monitoring period

Purpose: To discharge treated wastewater from quarry operations into an unnamed tributary of the Heimama Stream		
Condition requirement	Means of monitoring during period under review	Achieved
1. Best practicable option	Site inspections	Yes
2. Reinstatement of the quarry site	N/A	N/A
3. Restricts the catchment area to not exceed 6.4 hectares	Site inspections	Yes

Purpose: To discharge treated wastewater from quarry operations into an unnamed tributary of the Heimama Stream		
Condition requirement	Means of monitoring during period under review	Achieved
4. Maintenance and operation of the settlement ponds	Site inspections	Yes
5. Prohibits the discharge of any untreated stormwater or ground water to any surface water	Site inspections	Yes
6. Discharges met set constituents	Sampling (not required)	N/A
7. Discharge must not have any effect after the mixing zone	Site inspections	Yes
8. Provide Contingency Plan to TRC	Received	Yes
9. Notification to TRC of any changes to operation	Notification received	Yes
10. Review of consent	Optional review date June 2018	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

Table 19 Summary of compliance with consent 2293-3 over the 2014-2016 monitoring period

Purpose: To take water from an excavated pond in the vicinity of an unnamed tributary of the Heimama Stream for quarrying operations		
Condition requirement	Means of monitoring during period under review	Achieved
1. Restricts abstraction volumes	Site inspections and data review	No
2. Requires the construction and operation of an intake structure	Site inspections	Yes
3. Notify and submit records	Notification received	No
4. Requires the repair and maintenance of equipment	Site inspections	Yes
5. Water meter must be accessible	Site inspections	Yes
6. Records must be kept at weekly intervals of abstraction rate	Site inspections	No
7. Records of abstraction rate submitted	Notification received	No
8. Adopt best practicable option	Site inspections	No

Purpose: To take water from an excavated pond in the vicinity of an unnamed tributary of the Heimama Stream for quarrying operations		
Condition requirement	Means of monitoring during period under review	Achieved
9. Review of consent	Optional review date June 2018	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High Improvement Required
Overall assessment of administrative performance in respect of this consent		

The Company received a high rating for their consent compliance and administrative performance in the monitoring period from 1 July 2014 to 30 June 2016 for consent 2184-3, and an improvement required rating for consent 2293-3. Quarrying activities and wastewater management were assessed as compliant with the specified consent conditions, but the Company have not met the administrative requirements of their abstraction consent, which is reflected in their performance rating for consent 2293-3.

8.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the Company's Wiremu Road quarry site in the 2016-2018 period is modified to account for review of supplied data under consent 2293-3. The Company must also meet the requirements of their abatement notice in the required timeframe to avoid future non-compliances.

8.6. Exercise of optional review of consents

Resource consents 2184-3 and 2293-3 provide for an optional review of the consent in June 2018. This can be exercised if there are grounds to suggest that the conditions are inadequate to deal with adverse effects on the environment from the exercise of the consent.

Based on the results of monitoring in the years under review, and in previous years as set out in earlier compliance monitoring reports, it is considered that there are no grounds that require a review to be pursued. However, as this monitoring programme is reported on a biennial cycle, the Council reserves the right to action any of the optional reviews, as circumstances may arise over the next 12 months which may deem it necessary.



GR & LJ Jones

Sixth Compliance Monitoring Report 2014-2016

9. GR & LJ Jones Quarry, Mahoetahi Rd

9.1. Introduction

GR & LJ Jones (the consent holders') quarrying operation is located on the true right of the Mangaoraka Stream at Mahoetahi Road, Brixton, Waitara (Figure 9). The consent holders were granted consent to discharge stormwater and washwater from the site onto and into land and into an unnamed tributary of the Mangaoraka Stream in March 2004. To date, inspections have found no washing has been carried out at this site. In January 2009 the operator was also granted consent 7439-1 to discharge cleanfill onto and into land in the vicinity of the Mangaoraka Stream.

Since the commencement of quarrying at the site, the consent holders have set up a processing area, separate from where the extraction is taking place. The processing site is set up to direct the stormwater away from the unnamed tributary of the Mangaoraka Stream. The stormwater around the crusher is directed to two settling ponds, which in turn discharge to a network of drains that flow to the tributary. Stormwater from the stockpiling area is discharged into an adjacent paddock.

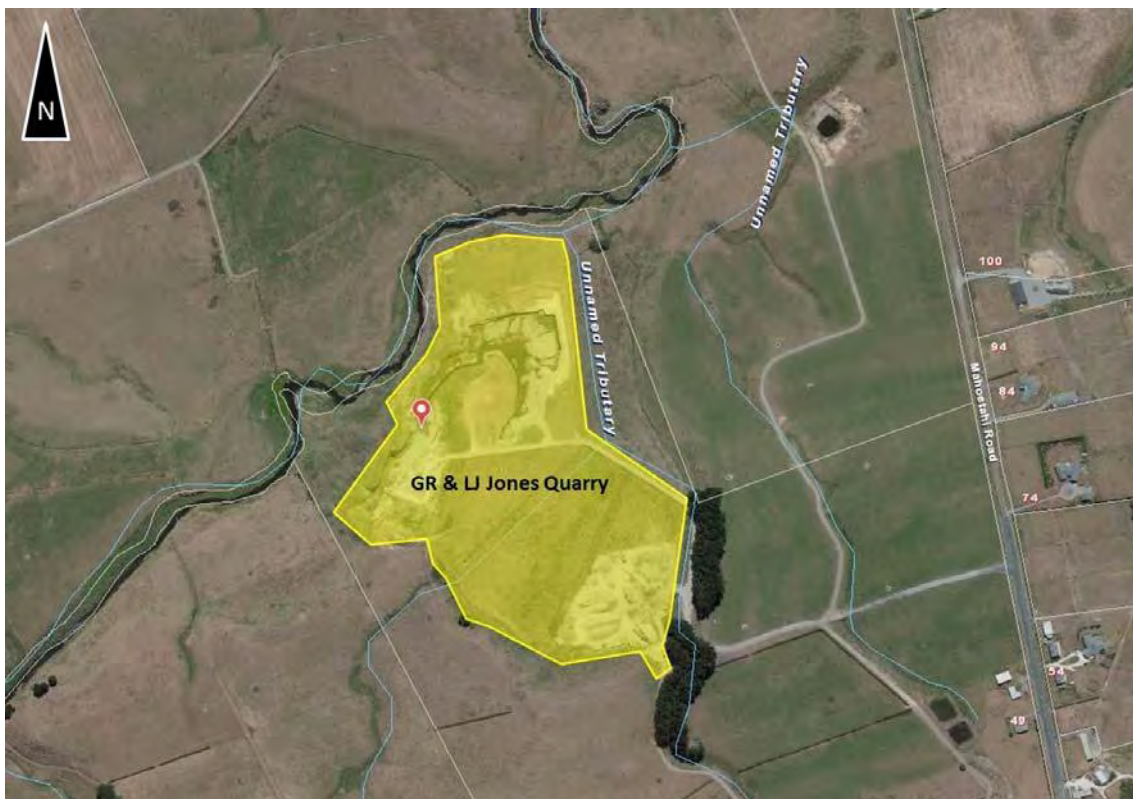


Figure 9 GR & LJ Jones Quarry site location map

9.2. Resource consents

6274-1 To discharge treated stormwater and treated washwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment

Granted: 25 March 2004 **Review:** No further reviews **Expiry:** 1 June 2020

7439-1 To discharge cleanfill onto and into land in the vicinity of the Mangaoraka Stream

Granted: 27 January 2009 **Review:** June 2020 **Expiry:** 1 June 2026

9.3. Compliance monitoring programme

The consent holders' monitoring programme includes three components, namely: programme liaison and management with consent holders and affected parties, site inspections, and chemical sampling when required.

9.4. Environmental and administrative performance summary

Seven inspections were undertaken at the Mahoetahi Road site within the 2014-2016 monitoring period. The cleanfill was operating within consent conditions on all seven inspections, and was noted as being well managed. On two occasions the quarry site was discharging to surface water, but the receiving waters showed no visual impacts from the discharges. On one inspection the site was discharging to land through irrigation, no adverse effects were noted. Site bunding was operating effectively, and some rock rip-rap work was completed in a stormwater channel to mitigate against channel erosion following discussions with the Inspecting Officer.

On 23 June 2015 the consent holders notified the Council that the quarry site had been flooded due to a significant weather event. A channel was constructed to release impounded flood water from the quarry site and cleanfill. An inspection was conducted on 26 June 2015 and it was observed that the flood water had mostly receded and the extraction pit was being pumped out, resulting in a discharge to the tributary. The Inspecting Officer noted there were no salient impacts from the discharge on the receiving waters of the tributary, and that the site was still operating within consent conditions.

In June 2016 the Investigating Officer had discussions with the consent holders about planned upgrades to their water treatment system, specifically setting up a series of three settling ponds, with the final pond discharging to the tributary. This would be contingency option, as the preferred treatment system would remain discharging to land through irrigation.

A tabular summary of the consent holders' compliance record for the period under review is set out in Tables 20 and 21.

Table 20 Summary of compliance with consent 6274-1 over the 2014-2016 monitoring period

Purpose: To discharge treated stormwater and treated washwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment		
Condition requirement	Means of monitoring during period under review	Achieved
1. Best practicable option	Site inspections	Yes

Purpose: To discharge treated stormwater and treated washwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment		
Condition requirement	Means of monitoring during period under review	Achieved
2. Exercise consent in accordance with documentation submitted	Site inspections	Yes
3. No direct discharge of untreated stormwater	Site inspections	Yes
4. Washwater treatment system to be bunded to prevent inflow of stormwater and groundwater	Site inspections	Yes
5. Active quarry site to be bunded and all water directed to treatment system	Site inspections	Yes
6. Control erosion and minimise sediment in the stormwater	Inspections of stormwater system and excavation area	Yes
7. Operate and progressive reinstatement of the site	Inspections of the excavation area	Yes
8. Stormwater catchment area to be no more than 2 hectares	Site inspections	Yes
9. Maintain and operate silt control structures	Inspections of the silt control structures and stormwater discharge areas	Yes
10. Concentration limits in the discharge	Observations and sampling of stormwater discharge	Yes (observations)
11. Discharge shall not give rise to effects beyond the mixing zone	Inspections of the stream, upstream and downstream of the discharge point	Yes
12. Discharge must not increase turbidity by more than 50%	Inspections of the tributary and the Mangaoraka Stream	Yes
13. Site plan, stormwater management plan, and contingency plan supplied	Plans received	Yes
14. Reinstatement on cessation of quarrying	Quarry still operating	N/A
15. Consent lapse	N/A	N/A
16. Review provision	No further review dates	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

Table 21 Summary of compliance with consent 7439-1 over the 2014-2016 monitoring period

Purpose: To discharge cleanfill onto and into land in the vicinity of the Mangaoraka Stream		
Condition requirement	Means of monitoring during period under review	Achieved
1. Disposal only to occur in pit area shown in appendix I	Inspections of cleanfill site	Yes
2. Materials permitted to be disposed of	Inspections of cleanfill site	Yes
3. Materials not permitted to be disposed of	Inspections of cleanfill site	Yes
4. Written approval required if unsure material is acceptable or not	No requests received regarding appropriateness of material	N/A
5. Adopt best practicable option	Inspections of cleanfill site	Yes
6. Stabilisation and revegetation of site on completion of cleanfill operation	N/A – cleanfill still operating	N/A
7. Consent lapse	N/A	N/A
8. Review of consent	Optional review date June 2020	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

The consent holders received a high rating for their consent compliance and administrative performance in the monitoring period from 1 July 2014 to 30 June 2016, as all quarry activities were assessed as compliant with the specified consent conditions.

9.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring of the consent holders' Mahoetahi Rd quarry site in the 2016-2018 period continues at the same level as in 2014-2016.



Valley Minerals Limited/Gully Rock

Sixth Compliance Monitoring Report
2014-2016

10. Valley Minerals Limited, Uruti Quarry Site

10.1. Introduction

Valley Minerals Limited (the Company) operates a small quarry at Uruti. The site has been in operation since 1929 and until 2001, was used primarily as a source of metal for local roads first by the Clifton County Council and later, the New Plymouth District Council. The site is located on a farm adjacent to State Highway 3 in Uruti, North Taranaki and on the true left bank of the Mimi River (Figure 10).

A dam, fed by two unnamed tributaries of the Mimi River, with an approximate catchment area of 75 ha, is located upstream of the processing site, with the overflow discharging into the unnamed tributary of the Mimi River. The site generally slopes towards this unnamed tributary, into which the treated stormwater and washwater discharge. The unnamed tributary flows through the site, under State Highway 3, into the Mimi River approximately 650 m downstream of the stormwater discharge point. The Mimi River flows into the coast approximately 15 km from this confluence.



Figure 10 Valley Minerals Ltd Quarry site location map, Mokau Rd

The Company extracts predominantly unconsolidated, gravel wash material for use in exposed aggregate concrete and similar ornamental building products, and in this respect differs from nearly all other quarries in Taranaki. The Company's active quarry site located in the hills covers approximately 3 ha, while the processing site at the base of the hills is approximately 2 ha. Aggregate excavated from the deposits is screened, washed and stockpiled for loading out. Water used to wash the aggregate is sourced from a nearby reservoir located in the headwaters of an unnamed tributary of the Mimi River. Washwater is partly recycled back into the dam, and partly discharged to the tributary of the Mimi River, to minimise the effects of the discharge.

During the monitoring period, the previous consent holders Gully Rock Limited renewed their stormwater discharge consent, changed the conditions of their treated washwater consent and were granted two new consents to use an earth dam and to abstract water from the earth dam. The consents were partially transferred from Gully Rock Limited to the current consent holder Valley Minerals Limited on 19 January 2016. At the time of reporting, the Company have yet to complete the transfer process, only the earth dam consent has been transferred completely.

10.2. Resource consents

5124-2 To discharge stormwater from a quarry site onto and into land and into an unnamed tributary of the Mimi River and dam

Granted: 4 September 2015

Review: June 2021, June 2027

Expiry: 1 June 2033

6272-1 To discharge treated washwater from a quarry site into an unnamed tributary of the Mimi River and dam

Granted: 4 September 2015

Review: No further reviews

Expiry: 1 June 2021

10143-1 To use an earth dam in an unnamed tributary of the Mimi River

Granted: 4 September 2015

Review: June 2021, June 2027

Expiry: 1 June 2033

10146-1 To take and use water from an earth dam in an unnamed tributary of the Mimi River

Granted: 4 September 2015

Review: June 2021, June 2027

Expiry: 1 June 2033

10.3. Compliance monitoring programme

The Company's monitoring programme includes four components, namely: programme liaison and management with consent holders and affected parties, review of water abstraction data, site inspections, and chemical sampling when required.

10.4. Environmental and administrative performance summary

Six inspections were undertaken at the Uruti site within the 2014-2016 monitoring period. Overall, the site was observed to be reasonably well managed and compliant with consent conditions, but it had been

noted in earlier inspections that the water treatment system required upgrading to ensure it could cope with increased site activity.

One incident was recorded against the site following a compliance inspection conducted on 22 December 2015. During the routine compliance inspection the inspecting officers observed that the water treatment system was not effectively operating to manage wastewater, resulting in a high flow of untreated discharge into the unnamed tributary of the Mimi River. This resulted in a significant reduction in visual quality of the receiving waters of the tributary, and also had a notable visual impact on the water quality of the main Mimi River downstream of the tributary confluence. Samples and photographs were taken by the inspecting officers. An abatement notice was issued to the consent holder requiring that they undertake works to upgrade the quarry stormwater and wastewater treatment systems to ensure compliance with Resource Consents 5124-2 and 6272-1.

An infringement notice was later issued to the consent holder following the confirmation of non compliant sampling results (Table 22). The suspended sediment result in the discharge was slightly above the consented limit, breaching special condition 7 of both consents. Other measured parameters were compliant with the discharge limits. The receiving environment samples from the tributary (sites T11, T12 and T13, Figure 11, Table 22) showed a significant increase in turbidity downstream of the discharge mixing zone relative to the upstream site (TU/S). These results were not compliant with condition 9b of the consents, which state the discharge shall not give rise to an increase in turbidity of more than 50% relative to upstream turbidity values. The inspecting officers also sampled the main Mimi River both upstream and downstream of the tributary confluence (sites MU/S and MI, Figure 11), the results of which show a reduced but still noticeable impact from the discharge on stream turbidity.



Figure 11 Sample site location map, Valley Minerals Quarry

Table 22 Incident sample results Valley Minerals Quarry December 2015

Discharge to unnamed tributary of Mimi River (5124-2), 22 December 2015										
Parameter	Unit	Discharge (D)		Tributary upstream sample (TU/S)	Tributary Impact 1 sample (TI1)	Tributary Impact 2 sample (TI2)	Tributary Impact 3 sample (TI3)	Mimi River upstream sample (MU/S)	Mimi River Impact sample (MI)	Consent limit (downstream samples)
		Sample	Consent limit							
Hydrocarbons	g/m ³	4.5	15	-	-	-	-	-	-	-
pH	pH	7.9	6.0-9.0	7.6	7.6	7.6	7.6	7.4	7.5	-
Suspended solids	g/m ³	170	100	10	140	140	140	5	10	-
Turbidity	NTU	350	-	6.7	280	290	270	5.4	18	10.05

Note: Downstream consent limits are calculated based on upstream turbidity, as outlined in special condition 9 of resource consent 5124-2.

The impacts of this discharge on receiving water quality would have been temporary, and were significantly reduced through dilution once the tributary had joined the main Mimi River. Subsequent inspections indicated that the abatement notice was being complied with, and the water treatment system upgrade was being undertaken during the January, February and April 2016 inspections.

The Company have supplied monthly abstraction data as per consent 10146-1. During the monitoring period they were informed by Council staff that they would have to record weekly data going forward, which they agreed to do. The supplied data is compliant with abstraction rate and volume consent limits. Valley Minerals Ltd have been prompted on two occasions by Council administration staff to complete the consent transfer process, which at the time of reporting remains incomplete. This affects their administrative performance rating for all consents except 10143-1. A tabular summary of the Company's compliance record for the period under review is set out in Tables 23 to 26.

Table 23 Summary of compliance with consent 5124-2 over the 2014-2016 monitoring period

Purpose: To discharge stormwater from a quarry site onto and into land and into an unnamed tributary of the Mimi River and dam		
Condition requirement	Means of monitoring during period under review	Achieved
1. Exercise consent in accordance with consent application information	Site inspections	Yes
2. Exercise consent in accordance with supplied management plans	Site inspections	Yes
3. Site management plan supplied	Plan received August 2015	Yes
4. Best practicable option	Site inspections	Yes
5. Operate and progressive reinstatement of the site	Inspections of the excavation area	Yes
6. Stormwater catchment area to be no more than 2 hectares at the lower site and 3 hectares at the upper site	Site inspections	Yes

Purpose: To discharge stormwater from a quarry site onto and into land and into an unnamed tributary of the Mimi River and dam		
Condition requirement	Means of monitoring during period under review	Achieved
7. Concentration limits in the discharge	Observations and sampling of stormwater discharge	No
8. Discharge shall not give rise to effects beyond the mixing zone	Inspections of the stream, upstream and downstream of the discharge point	No
9. Discharge must not increase turbidity by more than 50%	Inspections and sampling of the tributary and the Mimi River	No
10. Site contingency plan maintained	Plans received	Yes
11. Consent holder to notify prior to operational changes	No notifications received	N/A
12. Review provision	Next review date 2021	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Improvement Required
Overall assessment of administrative performance in respect of this consent		Improvement Required

Table 24 Summary of compliance with consent 6272-1 over the 2014-2016 monitoring period

Purpose: To discharge treated washwater from a quarry site into an unnamed tributary of the Mimi River and dam		
Condition requirement	Means of monitoring during period under review	Achieved
1. Exercise consent in accordance with consent application information	Site inspections	Yes
2. Exercise consent in accordance with supplied management plan	Site inspections	Yes
3. Site management plan supplied	Plan received August 2015	Yes
4. No direct discharge of untreated washwater	Observations and sampling of stormwater discharge	No
5. Consent holder to implement re-circulatory systems	Site inspections	Yes
6. Best practicable option	Site inspections	No
7. Concentration limits in the discharge	Observations and sampling of stormwater discharge	No
8. Discharge shall not give rise to effects beyond the mixing zone	Inspections of the stream, upstream and downstream of the discharge point	No

Purpose: To discharge treated washwater from a quarry site into an unnamed tributary of the Mimi River and dam		
Condition requirement	Means of monitoring during period under review	Achieved
9. Discharge must not increase turbidity by more than 50%	Inspections and sampling of the tributary and the Mimi River	No
10. Site contingency plan maintained	Plans received	Yes
11. Consent holder to notify prior to operational changes	No notifications received	N/A
12. Review provision	No further review dates	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Improvement Required
Overall assessment of administrative performance in respect of this consent		Improvement Required

Table 25 Summary of compliance with consent 10143-1 over the 2014-2016 monitoring period

Purpose: To use an earth dam in an unnamed tributary of the Mimi River		
Condition requirement	Means of monitoring during period under review	Achieved
1. Exercise consent in accordance with consent application information	Site inspections	Yes
2. Dam location condition	Site inspections	Yes
3. Dam height to not exceed 3 metres	Site inspections	Yes
4. Dam spillway to be no less than 2.5 metres wide	Site inspections	Yes
5. The dam crest to invert of the spillway to be no less than 1.5 metres high	Site inspections	Yes
6. Consent holder to notify prior to undertaking remedial works on the dam	No works undertaken	N/A
7. Spillway to be maintained at all times	Site inspections	Yes
8. Review clause.	Next review date 2021	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

Table 26 Summary of compliance with consent 10146-1 over the 2014-2016 monitoring period

Purpose: To take and use water from an earth dam in an unnamed tributary of the Mimi River		
Condition requirement	Means of monitoring during period under review	Achieved
1. Restricts abstraction rates and volumes	Abstraction data received	Yes*
2. Low flow water take restriction	Abstraction data received	Yes
3. Best practicable option	Site inspections	Yes
4. Recording and annual supply of abstraction data	Site inspections	Yes*
5. Intake to be screened	Site inspections	Yes
6. Review clause.	Next review date 2021	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High Improvement Required (failure to transfer consent)
Overall assessment of administrative performance in respect of this consent		

*Monthly abstraction data provided initially, consent holder to record weekly data in future

During the monitoring period, the Company demonstrated a level of environmental performance which required improvement. One incident was recorded at the site, leading to the issuing of an infringement notice and an abatement notice for a temporary breach of their stormwater and washwater discharge consent conditions. The Company have since been working to upgrade their water treatment systems. The Company's administrative performance rating was also reduced due to delays in completing the consent transfer process.

10.5. Alterations and recommendations for 2016-2018

It is recommended that the monitoring the Company's Uruti quarry site in the 2016-2018 period continues at the same level as in 2014-2016. It is also recommended that the Company completes the consent transfer processes for consents 5124-2, 6272-1 and 10146-1 and completes all water system upgrades to avoid further environmental and/or administrative non-compliances being registered against their resource consents.

Glossary of common terms and abbreviations

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

Biomonitoring	Assessing the health of the environment using aquatic organisms.
Bund	A wall around a tank to contain its contents in the case of a leak.
Conductivity	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 20°C and expressed in mS/m.
Fresh	Elevated flow in a stream, such as after heavy rainfall.
g/m ³	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.
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.
IR	The Incident Register contains a list of events recorded by the Council on the basis that they may have the 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.
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).
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.
Resource consent	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	<i>Resource Management Act 1991</i> and including all subsequent amendments.

SS	Suspended solids.
Temp	Temperature, measured in °C (degrees Celsius).
Turb	Turbidity, expressed in NTU.
UI	Unauthorised Incident.

For further information on analytical methods, contact the Council's laboratory.

Bibliography and references

Taranaki Regional Council, 1992: Regional Policy Statement Working Paper. Aggregate extraction in Taranaki. TRC Report.

For previous quarry monitoring reports, please visit the Council website:

<https://www.trc.govt.nz/council/plans-and-reports/environmental/consent-compliance-monitoring-reports/quarries/>

Appendix I
Resource consents for the Group B quarries
(For a copy of the signed resource consent
please contact the TRC Consents department)

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

Name of
Consent Holder: Horizon Trust Management Limited
 P O Box 414
 WANGANUI 4540

Decision Date: 7 February 2013

Commencement
Date: 7 February 2013

Conditions of Consent

Consent Granted: To discharge stormwater onto and into land from quarry
 activities at or about (NZTM) 1758327E-5595201N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: 535 Rangitatu West Road, Maxwell

Legal Description: Sec 1 SO 423406 (Discharge source & site)

Catchment: Waitotara

Tributary: Makokako

*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 active area of the quarry shall not exceed 2 hectares at any one time.
2. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October; unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
3. All earthworked areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
4. 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.
5. This consent shall lapse on 31 March 2018, 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.
6. 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 2016 and/or June 2022, 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 February 2013

For and on behalf of
Taranaki Regional Council

Chief Executive

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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date
(Change): 22 May 2014

Commencement Date
(Change): 22 May 2014 (Granted Date: 12 September 2012)

Conditions of Consent

Consent Granted: To discharge treated stormwater, groundwater and washwater from a quarry site onto and into land and into an unnamed tributary of the Waipuku Stream

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Secs 51 & 52 Blk XVI Egmont SD (Discharge source & site)

Grid Reference (NZTM) 1702842E-5650466N

Catchment: Waitara

Tributary: Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive, Taranaki Regional Council a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. 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 to the environment.
5. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
6. The stormwater discharged shall be from a catchment area not exceeding 36 hectares.

Consent 4905-3.1

7. The consent holder shall properly maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur does not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
8. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
9. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total hydrocarbons	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.

10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, 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) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the unnamed tributary of the Waipuku Stream in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the unnamed tributary of the Waipuku Stream of more than 50%, where the stream turbidity measured upstream of the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
12. The washing and washwater treatment system shall be bunded to prevent the inflow of stormwater and/or groundwater from any other areas of the quarry. In addition, the consent holder shall implement appropriate re-circulatory systems to minimise the volume of washwater being discharged off-site.

Consent 4905-3.1

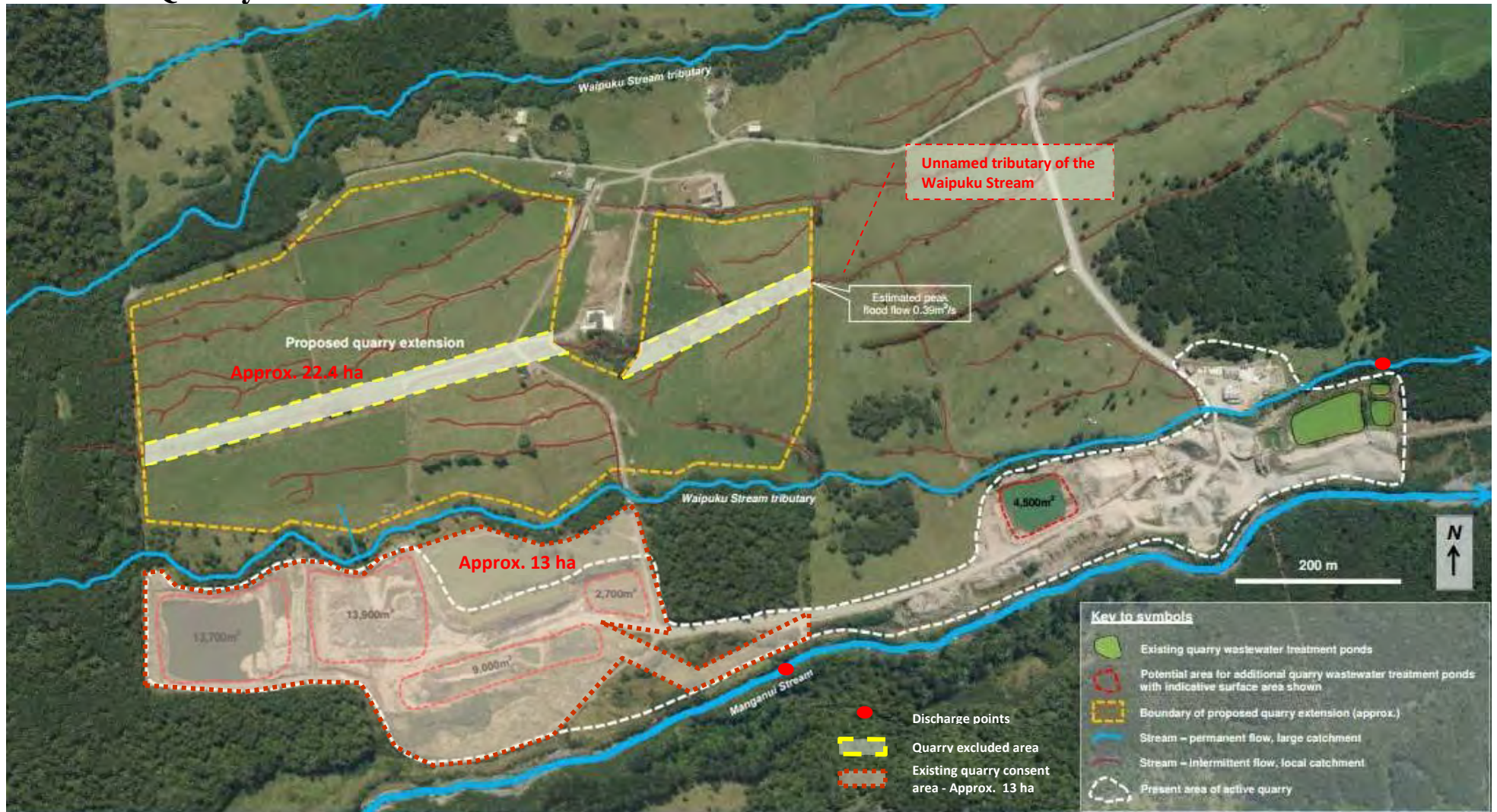
13. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following 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.
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 during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 4905



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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date
(Change): 22 May 2014

Commencement Date
(Change): 22 May 2014 (Granted Date: 12 September 2012)

Conditions of Consent

Consent Granted: To discharge treated stormwater and groundwater seepage from quarry operations into an unnamed tributary of the Manganui River

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Pt Clsd Rd SO 10236 Adj Sec 24 Pt Secs 21 & 48
Blk XVI Egmont SD Sec 47 Blk XVI Egmont SD
(Discharge source & site)

Grid Reference (NZTM) 1702094E-5650120N

Catchment: Waitara

Tributary: Manganui

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive, Taranaki Regional Council a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. 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 to the environment.
5. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
6. The stormwater discharged shall be from a catchment area not exceeding 36 hectares.

Consent 5218-2.1

7. The consent holder shall properly maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur shall not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
8. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
9. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total hydrocarbons	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.

10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, 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) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life
11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the unnamed tributary of the Waipuku Stream in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the unnamed tributary of the Waipuku Stream of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
12. 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.

Consent 5218-2.1

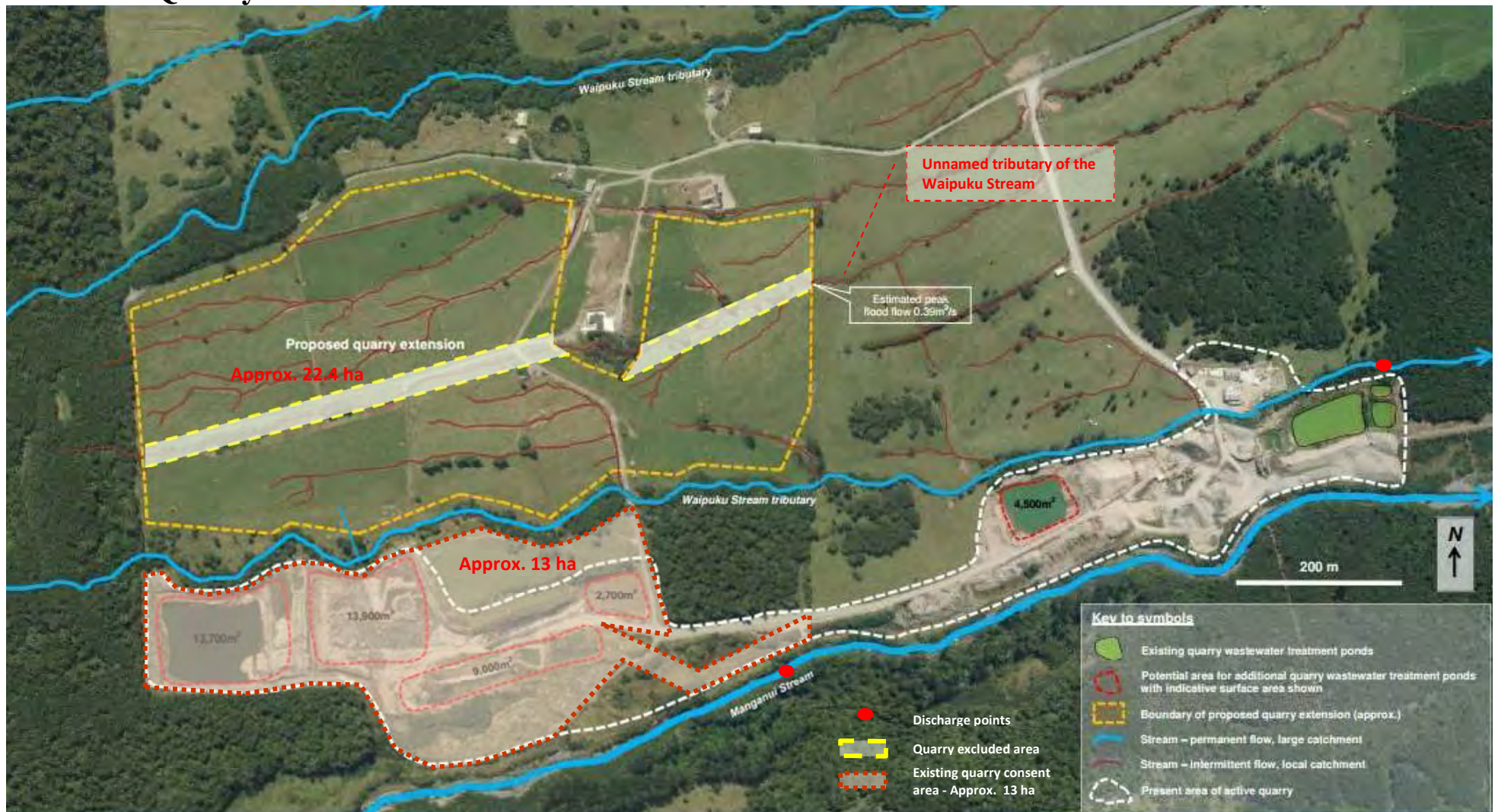
13. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 5218



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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date: 22 May 2014

Commencement Date: 22 May 2014

Conditions of Consent

Consent Granted: To take groundwater incidental to quarry operations

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Lot 2 DP 366171 (Site of take)

Grid Reference (NZTM) 1701748E-5650551N

Catchment: Waitara

Tributary: Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The taking of groundwater shall be incidental to the quarrying activities at the site.
5. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.
6. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater.

Consent 9850-1.0

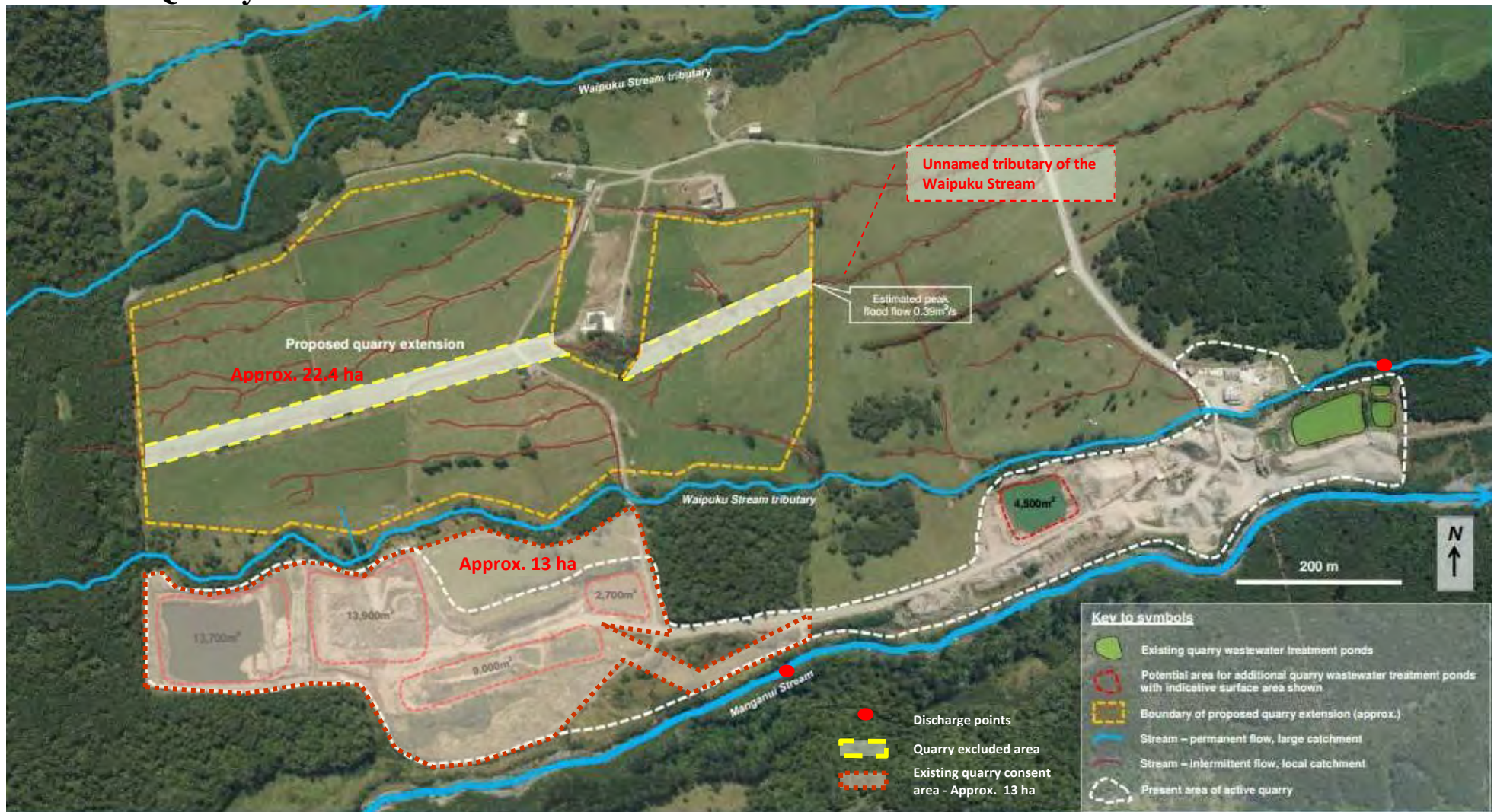
7. This consent will lapse on 1 June 2027.
8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 9850



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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date: 22 May 2014

Commencement Date: 22 May 2014

Conditions of Consent

Consent Granted: To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream, in association with quarry operations

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Lot 2 DP 366171 (Site of reclamation)

Grid Reference (NZTM) 1701748E-5650551N

Catchment: Waitara

Tributary Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The disturbance and reclamation of the streambed sections shall be as per the stormwater management plan submitted under condition 2 of this consent.
5. 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 to the environment.
6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.

Consent 9812-1.1

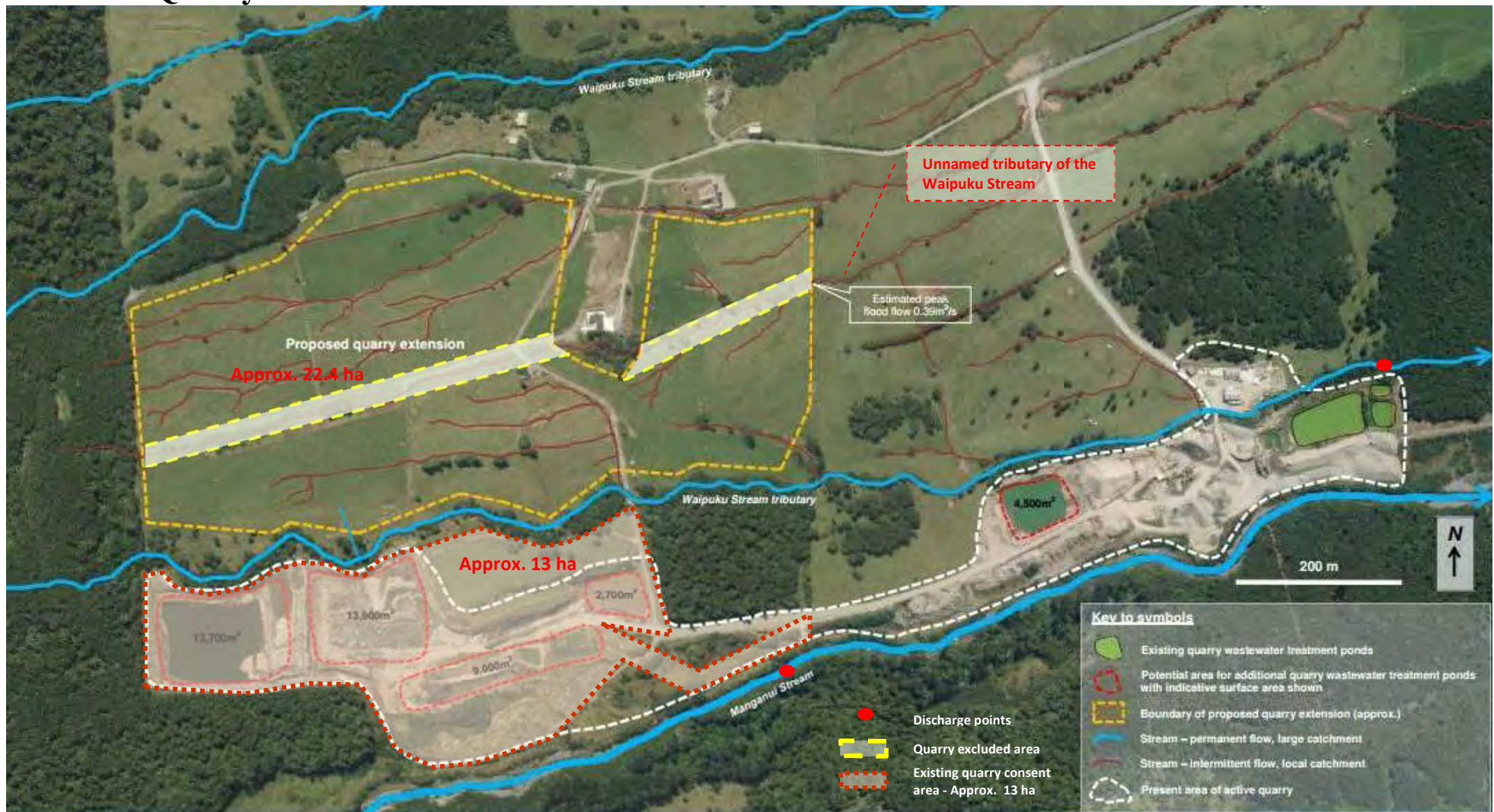
7. This consent will lapse on 1 June 2027.
8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 9812



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

Name of
Consent Holder: Vickers Quarries Limited
 125 Radnor Road
 R D 24
 STRATFORD 3494

Consent Granted 17 February 2010
Date:

Conditions of Consent

Consent Granted: To discharge cleanfill onto and into land at or about
 (NZTM) 1701549E-5650156N

Expiry Date: 1 June 2027

Review Date(s): June 2015, June 2021

Site Location: 683 York Road, Midhirst

Legal Description: Lot 2 DP 366171

Catchment: Waitara

Tributary: Manganui
 Waipuku

*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 Council all the administration, monitoring and supervision costs of this consent, fixed in accordance to section 36 of the Resource Management Act.

Special conditions

1. The discharge of cleanfill shall only occur in the area indicated on the plan attached [Plan 1].
2. The contaminants to be discharged shall be limited to cleanfill and/or inert materials. For the purposes of this condition, “clean fill and inert materials” are defined as materials consisting of any concrete, cement or cement wastes, bricks, mortar, tiles [clay, ceramic or concrete], non-tanalised timber, porcelain, glass, gravels, boulders, shingles, fibreglass, plastics, sand, soils and clays, and/or tree stumps and roots, whether singly or in combination or mixture, or any other material [subject to condition 3] that when placed onto and into land will not render that land or any vegetation grown on that land toxic to vegetation or animals consuming vegetation.
3. The discharge of the following contaminants shall not occur: food wastes, paper and cardboard, grass clippings, garden wastes including but not limited to wastes containing foliage or other vegetation [other than tree stumps and roots as permitted under condition 2], textiles, steel, galvanised metals, construction materials containing paint or fillers or sealers or their containers, oils or greases or any liquids or sludges or their containers, any industrial process by-products other than as permitted under condition 2, any poisons or solvents or their containers, batteries, general domestic refuse not otherwise described, or any wastes with the potential to render land or any vegetation grown on the land toxic to vegetation or to animals consuming such vegetation.
4. If the consent holder is uncertain as to the acceptability or not of a certain material the consent holder shall obtain written approval from the Consents Manager, Taranaki Regional Council, prior to its discharge.
5. The consent holder shall at all times adopt the best practicable option or options [as defined in section 2 of the Resource Management Act 1991] to prevent or minimise any actual or potential effect on the environment arising from any discharge at the site.
6. Upon completion of the cleanfill discharge authorised by this consent, the discharge site shall be stabilised and revegetated.
7. This consent shall lapse on 31 March 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.

Consent 7615-1

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 during the month of June 2015 and/or June 2021, 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 17 February 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management



Plan 1: Showing the location of the authorised clean-fill site.

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

Name of
Consent Holder: Vickers Quarries Limited
 125 Radnor Road
 R D 24
 STRATFORD 4394

Consent Granted 18 June 2010
Date:

Conditions of Consent

Consent Granted: To discharge treated stormwater and treated aggregate
 washwater from a quarry site into the Patea River at or
 about (NZTM) 1721850E-5643115N

Expiry Date: 1 June 2020

Review Date(s): June 2015

Site Location: 278 Toko Road, Stratford

Legal Description: Pt lot 2 DP 739

Catchment: Patea

General condition

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

Special conditions

1. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of:
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
2. The active quarry site shall be contoured/bunded so that:
 - all water generated in this area is directed to the silt control structures for treatment prior to discharge; and
 - the flow of uncontaminated stormwater into this area is prevented, as far as is practicable.
3. The suspended solids concentration within the discharge shall not exceed 100 gm⁻³.

This condition shall apply prior to the entry of the treated stormwater and aggregate washwater into the receiving waters of the Patea River at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.
4. After allowing for a mixing zone of 25 metres, the discharge shall not give rise to any of the following effects in the receiving waters of the Patea River:
 - 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. 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.

The contingency plan shall be submitted to the Chief Executive, Taranaki Regional Council on request.

Consent 3564-3

6. The consent holder shall progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth, within the active quarry site is kept to a minimum at all times. This shall be undertaken to the satisfaction of the Chief Executive, Taranaki Regional Council.
7. A Site Rehabilitation Plan shall be submitted to the Chief Executive, Taranaki Regional Council no later than 3 months before the completion date of extraction activities. The Plan shall detail the proposed methods to rehabilitate and stabilise the site and an approximate timeframe by when the works will be commenced and completed.
8. Prior to this consent expiring or being surrendered, the consent holder shall rehabilitate the site in accordance with the Site Rehabilitation Plan, approved under condition 7 above.
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 2015, 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 18 June 2010

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
Consent Holder: R A Wallis Limited
Private Bag 30
OKAIAWA

Consent Granted
Date: 21 March 2001

Conditions of Consent

Consent Granted: To discharge treated washwater, groundwater and stormwater from quarry operations into land and into the Waingongoro River at or about GR: Q21:174-882

Expiry Date: 1 June 2017

Review Date(s): In the month 12 months following quarry operations becoming fully operational, and June 2005 and June 2011

Site Location: Omahuru Road, Okaiawa
[Property Owner: K & D Hancock]

Legal Description: Umutahi 4C Blk I Hawera SD

Catchment: Waingongoro

Consent 5719-1

General conditions

- 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 the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge on the environment.
- 2) The maximum disturbed stormwater catchment area shall be no more than 2 hectares.
- 3) The area used for washing of aggregate shall be bunded/contoured to ensure separation from the stormwater catchment. Further the consent holder shall implement appropriate recirculatory systems, so as to minimise the volume of the washwater and stormwater discharge.
- 4) There shall be no direct discharge of untreated stormwater, washwater or groundwater from the active quarry site into the Waingongoro River as a result of the exercise of this consent.
- 5) The active quarry site shall be contoured/bunded so that: all water generated in this area is directed to the silt control structures for treatment prior to discharge; and the flow of uncontaminated stormwater into this area is prevented, as far as is practicable.
- 6) After allowing for reasonable mixing, within a mixing zone extending 75 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the receiving waters of the Waingongoro River:
 - 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 75 metres downstream of the discharge point, the discharge shall not give rise to an increase in turbidity (NTU) of more than 50%.
- 8) The following concentrations shall not be exceeded in the discharge:

<u>Component</u>	<u>Concentration</u>
pH (range)	6 – 9
Suspended solids	100 gm ⁻³

Consent 5719-1

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

- 9) The consent holder shall progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth, within the quarry's stormwater catchment, is kept to a minimum at all times. Such reinstatement shall be to a standard satisfactory to one of the Taranaki Regional Council soil conservators or to a soil conservator with a New Zealand Association of Resource Management practising certificate.
- 10) The consent holder shall properly and efficiently maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur shall not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of the discharge.
- 11) The consent holder shall prepare and maintain a contingency plan for action to be taken in the event of accidental discharge or spillage of contaminants; the initial plan to be provided prior to the exercise of this consent. In addition to other matters, the plan shall include details of procedures for containment and removal of any oil or grease which enters the stormwater system.
- 12) On cessation of quarry operations at the site licensed by this consent, the active quarry area, including the silt control structures, and surrounding areas shall be reinstated by the consent holder and inspected by, and be to a standard satisfactory to, one of the Taranaki Regional Council soil conservators or to a soil conservator with a New Zealand Association of Resource Management practising certificate.
- 13) This consent shall lapse on the expiry of four 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.
- 14) The consent holder shall install a back flow prevention device on the discharge pipe prior to exercise of this consent.
- 15) 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 in the month 12 months following quarry operations becoming fully operational, and during the month of June 2005 and/or June 2011, 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 21 March 2001

For and on behalf of
Taranaki Regional Council

Chief Executive

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

Name of
Consent Holder: R A Wallis Limited
34 Manu Road
R D 11
HAWERA 4671

Decision Date: 19 July 2013

Commencement Date: 19 July 2013

Conditions of Consent

Consent Granted: To discharge stormwater onto and into land from quarrying activities

Expiry Date: 1 June 2029

Review Date(s): June 2017, June 2023

Site Location: 56 Lower Glenn Road, Manaia

Legal Description: Sec 21 Blk VI Waimate SD (Discharge source & site)

Grid Reference (NZTM) 1691855E-5621614N

Catchment: Kaupokonui

*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 active area of the quarry shall not exceed 6 hectares at any one time.
2. All run off from that areas of land that are not stabilised shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.

Note: For the purpose of this consent "stabilised" in relation to any site or area means inherently resistant to erosion or rendered resistant, such as by using rock or by the application of basecourse, colluvium, grassing, mulch, or another method to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council and as specified in the Taranaki Regional Council's Guidelines for Earthworks in the Taranaki Region, 2006. Where seeding or grassing is used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once, on reasonable visual inspection by an officer of the Taranaki Regional Council, an 80% vegetative cover has been established.

3. The obligation described in condition 2 above shall cease to apply, and accordingly the erosion and sediment control measures can be removed, in respect of any particular site or area of any site, only when the site is stabilised.
4. All quarried areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
5. At least 7 working days prior to the commencement of works the consent holder shall notify the Taranaki Regional Council of the proposed start date for the work. Notification shall include the consent number and a brief description of the activity consented and shall be emailed to worknotification@trc.govt.nz.
6. 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.
7. This consent shall lapse on 30 September 2018, 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.

Consent 9600-1

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 during the month of June 2016 and/or June 2022, 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 19 July 2013

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
Consent Holder: Ferndene Quarries Limited
 3A Horizon Heights
 NEW PLYMOUTH

Consent Granted 16 September 2004
Date:

Conditions of Consent

Consent Granted: To discharge treated stormwater from quarrying and rock
 crushing operations onto and into land and into an
 unnamed tributary of the Mangaoraka Stream in the
 Waiongana catchment at or about GR: Q19:106-269

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: 1059 Upland Road, Tarurutangi
 [Property owner: DG & GS Marsh]

Legal Description: Sec 117 & E Pt Sec 118 Tarurutangi Dist Blk III Egmont
 SD

Catchment: Waiongana

Tributary: Mangaoraka

General conditions

- 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 resource consent.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 3309 and to ensure that the conditions of this consent are met at all times. In the case of any contradiction between the documentation submitted in support of application 3309 and the conditions of this consent, the conditions of this consent shall prevail.
3. There shall be no direct discharge of untreated stormwater from the quarry into the unnamed tributary of the Mangaoraka Stream, as a result of the exercise of this consent.
4. The active quarry site shall be contoured/bunded so that: all water generated in this area is directed to the silt control structures for treatment prior to discharge; and the flow of uncontaminated stormwater into this area is prevented.
5. The consent holder shall undertake measures during excavation to control erosion of exposed areas within the quarry site and to minimise the amounts of sediment contained in the stormwater discharge licensed by this consent.
6. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth within the quarry's stormwater catchment is kept to a minimum at all times.

Consent 6453-1

7. The maximum disturbed stormwater catchment area shall be no more than one hectare at any one time.
8. The consent holder shall properly and efficiently maintain and operate the silt control structures in such a manner that any discharge which may occur shall not breach the conditions of this consent. The silt control structures shall be operated, as far as practicable, so as to maximise the treatment of the stormwater, and to minimise the duration and frequency of the discharge.
9. The following concentrations shall not be exceeded in the discharge:

Component	Concentration
pH [range]	6-9
total recoverable hydrocarbons [infrared spectroscopic technique]	15 gm ⁻³
Suspended solids	100 gm ⁻³

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

10. After allowing for reasonable mixing, within a mixing zone extending 40 metres downstream of the second discharge point [Area B], the discharge shall not give rise to any of the following effects in the receiving waters of the unnamed tributary of the Mangaoraka Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended material;
 - 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.
11. After allowing for reasonable mixing, within a mixing zone extending 40 metres downstream of the second discharge point in the unnamed tributary of the Mangaoraka Stream, the discharge shall not give rise to either of the following effects in the receiving waters of the unnamed tributary of the Mangaoraka Stream:
 - a) an increase in suspended solids concentration in excess of 10 gm⁻³ when the stream turbidity as measured immediately upstream of the first discharge point [Area A] in the unnamed tributary of Mangaoraka Stream is equal to or less than 5 NTU [nephelometric turbidity units]; or
 - b) an increase in turbidity of more than 50% when the stream turbidity as measured immediately upstream of the first discharge point [Area A] in the unnamed tributary of the Mangaoraka Stream is greater than 5 NTU [nephelometric turbidity units].

12. Prior to the exercise of this consent, in each of the two areas identified in the documentation submitted in support of application 3309, the consent holder shall provide a site plan, stormwater management plan, and contingency plan to the Taranaki Regional Council. These plans are to outline the measures and procedures to be undertaken to prevent the spillage or accidental discharge of contaminants into the stormwater catchment, and measures to avoid, remedy or mitigate environmental effects from the exercise of this consent.
13. On cessation of quarrying operations or prior to the surrender or lapsing of this consent at the site licensed by this consent, the active quarry area, including the silt control structures, and surrounding areas shall be reinstated to the satisfaction of the Chief Executive, Taranaki Regional Council.
14. 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.
15. 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 16 September 2004

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
Consent Holder: Ferndene Quarries Limited
 4 Dunbar Place
 Highlands Park
 NEW PLYMOUTH 4312

Decision Date: 2 April 2007

Commencement
Date: 2 April 2007

Conditions of Consent

Consent Granted: To discharge cleanfill onto and into land for quarry
 reinstatement purposes at or about (NZTM)
 1700536E-5665456N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Upland Road, Inglewood

Legal Description: Sec 117 & E Pt Sec 118 Tarurutangi Dist Blk III
 Egmont SD

Catchment: Waiongana

General conditions

- 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 exercise of this consent shall be carried out in general accordance with the information submitted in support of the application.
2. The contaminants to be discharged shall be limited to cleanfill and/or inert materials. For the purposes of this condition, "clean fill and inert materials" are defined as materials consisting of any concrete, cement or cement wastes, bricks, mortar, tiles (clay, ceramic or concrete), non-tanalised timber, porcelain, glass, gravels, boulders, shingles, fibreglass, plastics, sand, soils and clays, and/or tree stumps and roots, whether singly or in combination or mixture, or any other material that when placed onto and into land will not render that land or any vegetation grown on that land toxic to vegetation or animals consuming vegetation.
3. The discharge of the following contaminants shall not occur: food wastes, paper and cardboard, grass clippings, garden wastes containing green vegetation, textiles, steel, galvanised metals, construction materials containing paint or fillers or sealers or their containers, oils or greases or any liquids or sludges or their containers, any industrial process by-products other than as permitted under condition 2, any poisons or solvents or their containers, batteries, general domestic refuse not otherwise described, or any wastes with the potential to render land or any vegetation grown on the land toxic to vegetation or to animals consuming such vegetation.
4. The discharge to land shall not result in any contaminant entering surface water.
5. Silt retention structures shall be installed and maintained to the satisfaction of the Chief Executive, Taranaki Regional Council.
6. The consent holder shall install and maintain stormwater diversion drains to minimise stormwater movement across, or ponding on the site, to the satisfaction of the Chief Executive, Taranaki Regional Council.
7. Within three months of the granting of this consent a cleanfill management plan is to be submitted and approved by the Chief Executive, Taranaki Regional Council.

Consent 7089-1

8. Notwithstanding any conditions within 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 actual or potential effect on the environment arising from any discharge at the site.
9. Upon completion of the works associated with the exercise of this consent, the discharge site covered by this consent shall be stabilised and revegetated to the satisfaction of the Chief Executive, Taranaki Regional Council.
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 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 20 September 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Taranaki Trucking Company Limited
P O Box 65
STRATFORD 4352

Decision Date: 30 November 2012

Commencement
Date: 30 November 2012

Conditions of Consent

Consent Granted: To take water from an excavated pond in the vicinity of an unnamed tributary of the Heimama Stream for quarrying operations at or about (NZTM) 1679110E-5641629N

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: 1017 Wiremu Road, Opunake

Legal Description: Lot 1 DP 15853 Blk VII Opunake SD (Site of take)

Catchment: Heimama

*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 volume of water taken shall not exceed 320 cubic metres per day, at a rate not exceeding 12.5 litres per second.
2. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter at the site of taking. The water meter shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of $\pm 5\%$.

Note: Water meters must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance, water meters have a limited lifespan.

3. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ('the equipment'):
 - a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
 - b) has been tested and shown to be operating to an accuracy of $\pm 5\%$.

The documentation shall be provided:

- a) within 30 days of the installation of a water meter;
 - b) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
 - c) no less frequently than once every five years.
4. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
 5. The water meter shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.
 6. The consent holder shall maintain a record of the water taken by recording the meter reading and the date of the reading at weekly intervals. This record shall be provided to the Chief Executive, Taranaki Regional Council, no later than 31 July of each year, or earlier upon request.

Consent 2293-3

7. The records of water taken shall:
 - a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing;
 - b) specifically record the water taken as 'zero' when no water is taken; and
 - c) for each 12-month period ending on 30 June, be provided to the Chief Executive, Taranaki Regional Council within one month after end of that period.
8. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
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 2018 and/or June 2024, for the purposes of:
 - a) 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; and/or
 - b) to require any data collected in accordance with the conditions of this consent to be transmitted directly to the Council's computer system, in a format suitable for providing a 'real time' record over the internet.

Signed at Stratford on 30 November 2012

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
Consent Holder: Taranaki Trucking Company Limited
P O Box 65
STRATFORD 4352

Decision Date: 30 November 2012

Commencement
Date: 30 November 2012

Conditions of Consent

Consent Granted: To discharge treated wastewater from quarry operations into an unnamed tributary of the Heimama Stream at or about (NZTM) 1679087E-5641414N

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: 1017 Wiremu Road, Opunake

Legal Description: Lot 1 DP 15853 Blk VII Opunake SD
(Discharge source and site)

Catchment: Heimama

*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 the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
2. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
3. The stormwater discharged shall be from a catchment area not exceeding 6.4 hectares.
4. The consent holder shall properly maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur shall not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
5. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
6. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total recoverable 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.

7. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the discharge point, 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) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.

Consent 2184-3

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. 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 during the month of June 2018 and/or June 2024, 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 30 November 2012

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
Consent Holder: GR & LJ Jones
29 Mahoetahi Road
R D 42
WAITARA

Consent Granted
Date: 25 March 2004

Conditions of Consent

Consent Granted: To discharge treated stormwater and treated washwater from quarrying and rock crushing operations onto and into land and into an unnamed tributary of the Mangaoraka Stream in the Waiongana catchment at or about GR: Q19:132-426

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: Mahoetahi Road, Brixton, Waitara

Legal Description: Pt Lot 3 DP 6390 Lot 3 DP 11974 Lot A DP 2338 Bk III
Paritutu SD

Catchment: Waiongana

Tributary: Mangaoraka

Consent 6274-1

General conditions

- 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 resource consent.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 2812 and to ensure that the conditions of this consent are met at all times. In the case of any contradiction between the documentation submitted in support of application 2812 and the conditions of this consent, the conditions of this consent shall prevail.
3. There shall be no direct discharge of untreated stormwater or washwater from the quarry into the unnamed tributary of the Mangaoraka Stream, as a result of the exercise of this consent.
4. The washing and washwater treatment system shall be bunded to prevent the inflow of stormwater and groundwater from other areas of the quarry. In addition, the consent holder shall implement appropriate recirculatory systems so as to minimise the volume of washwater required to be discharged.
5. The active quarry site shall be contoured/bunded so that: all water generated in this area is directed to the silt control structures for treatment prior to discharge; and the flow of uncontaminated stormwater into this area is prevented.
6. The consent holder shall undertake measures during excavation to control erosion of exposed areas within the quarry site and to minimise the amounts of sediment contained in the stormwater discharge licensed by this consent.
7. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth within the quarry's stormwater catchment is kept to a minimum at all times.

Consent 6274-1

8. The maximum disturbed stormwater catchment area shall be no more than two hectares.
9. The consent holder shall properly and efficiently maintain and operate the silt control structures in such a manner that any discharge which may occur shall not breach the conditions of this consent. The silt control structures shall be operated, as far as practicable, so as to maximise the treatment of the stormwater, and to minimise the duration and frequency of the discharge.
10. The following concentrations shall not be exceeded in the discharge:

Component	Concentration
pH (range)	6-9
total recoverable hydrocarbons [infrared spectroscopic technique]	15 gm ⁻³
Suspended solids	100 gm ⁻³

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

11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the receiving waters of the unnamed tributary of the Mangaoraka Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended material;
 - 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.
12. After allowing for reasonable mixing, within a mixing zone extending 50 metres downstream of the confluence with the unnamed tributary, the discharge shall not give rise to an increase in turbidity of greater than 50% [in terms of NTU (nephelometric turbidity units)] in the Mangaoraka Stream.
13. Prior to the exercise of this consent, in each of the three areas identified in the documentation submitted in support of application 2812, the consent holder shall provide a site plan, stormwater management plan, and contingency plan to the Taranaki Regional Council. These plans are to outline the measures and procedures to be undertaken to prevent the spillage or accidental discharge of contaminants into the stormwater catchment, and measures to avoid, remedy or mitigate environmental effects from the exercise of this consent.
14. On cessation of quarrying operations at the site licensed by this consent, the active quarry area, including the silt control structures, and surrounding areas shall be reinstated satisfactorily, prior to the surrender or lapsing of this consent.
15. 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.

Consent 6274-1

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 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 25 March 2004

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
Consent Holder: Jones Quarry Limited
Gavin Roy & Linda Jean Jones
29 Mahoetahi Road
R D 42
WAITARA

Consent Granted
Date: 27 January 2009

Conditions of Consent

Consent Granted: To discharge cleanfill onto and into land in the vicinity of
the Mangaoraka Stream at or about (NZTM)
1702940E-5681127N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: 29 Mahoetahi Road, Waitara

Legal Description: Pt Lot 3 DP 6390 Blk III Paritutu SD

Catchment: Waiongana

Tributary: Mangaoraka

General conditions

- 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 discharge of cleanfill shall only occur in the open pit area shown in Appendix 1.
2. The contaminants to be discharged shall be limited to cleanfill and/or inert materials. For the purposes of this condition, "clean fill and inert materials" are defined as materials consisting of any concrete, cement or cement wastes, bricks, mortar, tiles (clay, ceramic or concrete), non-tanalised timber, porcelain, glass, gravels, boulders, shingles, fibreglass, plastics, sand, soils and clays, and/or tree stumps and roots, whether singly or in combination or mixture, roading seal/bitumen recovered from existing roading pavements (excluding any freshly prepared roading cover material) or any other material (subject to condition 3) that when placed onto and into land will not render that land or any vegetation grown on that land toxic to vegetation or animals consuming vegetation.
3. The discharge of the following contaminants shall not occur: food wastes, paper and cardboard, grass clippings, garden wastes including but not limited to wastes containing foliage or other vegetation (other than tree stumps and roots as permitted under condition 2), textiles, steel, galvanised metals, construction materials containing paint or fillers or sealers or their containers, oils or greases or any liquids or sludges or their containers, any industrial process by-products other than as permitted under condition 2, any poisons or solvents or their containers, batteries, general domestic refuse not otherwise described, or any wastes with the potential to render land or any vegetation grown on the land toxic to vegetation or to animals consuming such vegetation.
4. If the consent holder is uncertain as to the acceptability or not of a certain material the consent holder shall obtain written approval from the Consents Manager, Taranaki Regional Council, prior to its discharge.
5. The consent holder shall at all times adopt the best practicable option or options [as defined in section 2 of the Resource Management Act 1991] to prevent or minimise any actual or potential effect on the environment arising from any discharge at the site.

Consent 7439-1

6. Upon completion of the cleanfill discharge authorised by this consent, the discharge site shall be stabilised and revegetated.
7. This consent shall lapse on 31 March 2014, 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.
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 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 27 January 2009

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
Consent Holder: Gully Rock Limited
2048 Mokau Road
RD 47
Urenui 4378

Decision Date: 4 September 2015

Commencement Date: 4 September 2015

Conditions of Consent

Consent Granted: To discharge stormwater from a quarry site onto and into land and into an unnamed tributary of the Mimi River and dam

Expiry Date: 1 June 2033

Review Date(s): June 2021, June 2027

Site Location: 1320 Mokau Road, Uruti

Legal Description: Lot 3 DP 19810 Lots 1-3 DP 19865 Pt Sec 14 SO 347 Blk I
Upper Waitara SD (Discharge source & site)

Grid Reference (NZTM) 1730756E-5685498N
1730617E-5685753N
1730781E-5685430N

Catchment: Mimi

*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 authorises the discharge of treated stormwater into an unnamed tributary of the Mimi River and dam, as described in the information provided with the application. In the case of any contradiction between the details of information provided and the conditions of this consent, the conditions of this consent shall prevail.
2. The discharge of stormwater through the site into the unnamed tributary of the Mimi River and the dam shall be managed in accordance with the:

- a) *Proposed Stormwater Management Plan* for the Upper Quarry Site; and
- b) *Proposed Stormwater and Washwater Management Plan* for the Lower Quarry Site;

which are attached as Appendices 1 and 2 of this consent. The implementation of these plans shall be completed by 1 December 2015 and its maintenance shall continue throughout the life of the quarry operation to ensure that stormwater is adequately managed and treated prior to the discharge into the receiving environment.

Note: This consent does not authorise, or in any way imply that the consent holder may access any site that does not belong to the consent holder.

3. In addition to managing the site as required in condition 2 above, the consent holder shall prepare a 'Management Plan' to be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the silt control structures will be effectively operated and maintained in such a manner that the discharge complies with the condition of the consent, and shall include as minimum:
 - a) management of the interceptor system, including the cleaning out of sand trap and sediment ponds;
 - b) stockpiling and/or disposal of quarried and cleaned out material;
 - c) stabilisation of stockpiled cleaned-out material; and
 - d) general maintenance of the sediment control measures.

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

4. 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.
5. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.

Consent 5124-2.0

6. The consent holder shall ensure that at any one time the stormwater catchment of the discharge and the areas exposed shall be no greater than:

- a) 2 ha at the lower quarry site; and
- b) 3 ha at the upper quarry site.

7. 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
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³

This condition shall apply before entry of the treated stormwater into the unnamed tributary of the Mimi River and the dam at designated sampling points approved by the Chief Executive, Taranaki Regional Council.

8. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, 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) the rendering of fresh water unsuitable for consumption by farm animals;
- e) any significant adverse effects on aquatic life.

9. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:

- a) an increase in the suspended solids concentration within the unnamed tributary of the Mimi River in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
- b) an increase in the turbidity within the unnamed tributary of the Mimi River of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).

10. The consent holder shall prepare, 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 5124-2.0

11. 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.
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 during the month of June 2021 and/or June 2027, 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 4 September 2015

For and on behalf of
Taranaki Regional Council



A D McLay
Director - Resource Management

Appendix 1 Proposed Stormwater Management Plan – Upper Quarry Site



Appendix 2: Proposed Stormwater and Washwater Management Plan Lower Quarry Site



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

Name of
Consent Holder: Gully Rock Limited
2048 Mokau Road
RD 47
Urenui 4378

Decision Date
(Change): 4 September 2015

Commencement Date
(Change): 4 September 2015 (Granted Date: 9 February 2004)

Conditions of Consent

Consent Granted: To discharge treated washwater from a quarry site into an unnamed tributary of the Mimi River and dam

Expiry Date: 1 June 2021

Site Location: 1320 Main North Road, Uruiti

Legal Description: Lot 3 DP 19810 Lots 1-3 DP 19865 Pt Sec 14 SO 347 Blk I
Upper Waitara SD (Discharge source & site)

Grid Reference (NZTM) 1730756E-5685498N
1730617E-5685753N
1730781E-5685430N

Catchment: Mimi

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

General conditions

- 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. This consent authorises the discharge of treated washwater into an unnamed tributary of the Mimi River and dam, as described in the information provided with the application. In the case of any contradiction between the details of information provided and the conditions of this consent, the conditions of this consent shall prevail.
2. The discharge of treated washwater shall be managed in accordance with the '*Proposed Stormwater and Washwater Management Plan*' for the Lower quarry site attached as attachment 1 of this consent. The implementation of this plan shall be completed by 1 December 2015 and its maintenance shall continue throughout the life of the quarry operation to ensure that washwater is adequately managed and treated prior to the discharge into the receiving environment.
3. In addition to managing the site as required in condition 2 above, the consent holder shall prepare a 'Management Plan' to be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the silt control structures will be effectively operated and maintained in such a manner that the discharge complies with the condition of the consent, and shall include as minimum:
 - a) management of the interceptor system, including the cleaning out of sand trap and sediment ponds;
 - b) stockpiling and/or disposal of quarried and cleaned out material;
 - c) stabilisation of stockpiled cleaned-out material; and
 - d) general maintenance of the sediment control measures.
4. There shall be no direct discharge of untreated washwater from the site into the unnamed tributary of the Mimi River and the dam as a result of the exercise of this consent.

Consent 6272-1.1

5. The consent holder shall implement appropriate re-circulatory systems, so as to minimise the volume of the washwater discharge.
6. 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.
7. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
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

This condition shall apply before entry of the treated stormwater into the unnamed tributary of the Mimi River and the dam at designated sampling points approved by the Chief Executive, Taranaki Regional Council.

8. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, 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) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
9. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the unnamed tributary of the Mimi River in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the unnamed tributary of the Mimi River of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
10. The consent holder shall prepare, 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 6272-1.1

11. 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.

Signed at Stratford on 4 September 2015

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Attachment 1: Proposed Stormwater and Washwater Management Plan Lower Quarry Site



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

Name of
Consent Holder: Valley Rock Limited
PO Box 2038
Stortford Lodge
Hastings 4153

Decision Date: 4 September 2015

Commencement Date: 4 September 2015

Conditions of Consent

Consent Granted: To use an earth dam in an unnamed tributary of the Mimi River

Expiry Date: 1 June 2033

Review Date(s): June 2021, June 2027

Site Location: 1320 Mokau Road, Uruiti

Legal Description: Lot 3 DP 19810 Lots 1-3 DP 19865 Pt Sec 14 SO 347 Blk I
Upper Waitara SD (Site of structure)

Grid Reference (NZTM) 1730781E-5685430N

Catchment: Mimi

*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 structure shall be constructed in accordance with the details provided in the application provided to the Taranaki Regional Council on 9 July 2015. In the case of any contradiction between the details and the conditions of this consent, the conditions of this consent shall prevail.
2. The dam shall be located at approximate grid reference (NZTM) 1730781E - 5685430N.
3. The dam height shall be no more than 3 metres.
4. The spillway width shall be no less than 2.5 metres wide.
5. The dam crest to the invert of the spillway shall be no less than 1.5 metres high.
6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to commencing construction of any remedial works on the dam. Notification shall include the consent number and a brief description of the activity consented and emailed to worknotification@trc.govt.nz.
7. The spillway shall be maintained to ensure that it does not erode or become blocked, and at all times, allow the free flow of water through it, throughout the life of the dam.
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 during the month of June 2021 and/or June 2027, 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 25 January 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Gully Rock Limited
2048 Mokau Road
RD 47
Urenui 4378

Decision Date: 4 September 2015

Commencement Date: 4 September 2015

Conditions of Consent

Consent Granted: To take and use water from an earth dam in an unnamed tributary of the Mimi River

Expiry Date: 1 June 2033

Review Date(s): June 2021, June 2027

Site Location: 1320 Mokau Road, Uruiti

Legal Description: Lot 3 DP 19810 Lots 1-3 DP 19865 Pt Sec 14 SO 347 Blk I
Upper Waitara SD (Site of take & use)

Grid Reference (NZTM) 1730781E-5685430N

Catchment: Mimi

*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 rate of taking shall not exceed 3 litres per second, and the volume taken in any 7 day period shall not exceed 75.6 cubic metres.

Note: At a rate of 3 litres per second, the maximum daily volume would be taken in 10 hours.

2. No taking shall occur when the flow immediately downstream of the dam is less than 2 litres per second.
3. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
4. The consent holder shall maintain a record of the taking including date, rate, pumping hours and daily volume abstracted and supply these records to the Chief Executive, Taranaki Regional Council, no later than 31 July of each year, or earlier upon request.
5. The consent holder shall ensure that the intake is screened to avoid fish (in all stages of their life-cycle) entering the intake or being trapped against the screen.
6. 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 2021 and/or June 2027, for the purposes 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 4 September 2015

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management