

Oaonui Water Supply Ltd  
Monitoring Programme  
Annual Report  
2017-2018

Technical Report 2018-24

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## Executive summary

The Oaonui Water Supply Ltd (OWSL) operates a rural water supply scheme located on Arawhata Road, Oaonui in the Oaonui catchment. The report for the period July 2017 to June 2018 describes the monitoring programme implemented by the Taranaki Regional Council (the Council) to assess OWSL's environmental and consent compliance performance during the period under review. The report also details the results of the monitoring undertaken and assesses the environmental effects of OWSL's activities.

OWSL holds three resource consents, which include a total of 26 conditions setting out the requirements that OWSL must satisfy. OWSL holds one consent to allow it to take and use water, one consent to maintain a weir, and one consent to discharge contaminants for intake sluicing. The Council's monitoring programme for the year under review included two inspections, a review of water abstraction data and one gauging.

### **During the year, OWSL demonstrated a good level of environmental performance.**

During the year, an improvement was required in OWSL's level of administrative performance with the resource consents as defined in Section 1.1.4. The data and reporting requirements of the consent 0231-4 were not met within the set timeframe and it is further noted that given the current position of the flow meter, the rate of abstraction is not accurately being measured due to the reservoir between the flow meter and point of abstraction. Whilst Council is satisfied that meter is recording volumes of water consumed by the scheme, it is not able to measure the rate at which water is being abstracted from the Oaonui Stream (as required by consent conditions and national regulations). The Council is working with the consent holder to achieve compliance in this matter.

For reference, in the 2017-2018 year, consent holders were found to achieve a high level of environmental performance and compliance for 76% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 20% of the consents, a good level of environmental performance and compliance was achieved.

In terms of overall environmental and compliance performance by the consent holder over the last several years, this report shows that the consent holder's performance showed some deterioration during the year under review.

This report includes recommendations for the 2018-2019 year.



## Table of contents

|       | Page   |    |
|-------|--|----|
| 1     | Introduction   | 1  |
| 1.1   | Compliance monitoring programme reports and the Resource Management Act 1991 | 1  |
| 1.1.1 | Introduction   | 1  |
| 1.1.2 | Structure of this report   | 1  |
| 1.1.3 | The Resource Management Act 1991 and monitoring                              | 1  |
| 1.1.4 | Evaluation of environmental and administrative performance                   | 2  |
| 1.2   | Process description  | 4  |
| 1.3   | Resource consents  | 5  |
| 1.3.1 | Water abstraction permit   | 5  |
| 1.3.2 | Water discharge permit   | 5  |
| 1.3.3 | Land use permits   | 6  |
| 1.4   | Monitoring programme   | 6  |
| 1.4.1 | Introduction   | 6  |
| 1.4.2 | Programme liaison and management   | 6  |
| 1.4.3 | Site inspections   | 7  |
| 1.4.4 | Data review  | 7  |
| 1.4.5 | Fish surveys   | 7  |
| 2     | Results  | 8  |
| 2.1   | Inspections  | 8  |
| 2.2   | Abstraction and stream flow data   | 8  |
| 2.3   | Incidents and Enforcements   | 9  |
| 3     | Discussion   | 10 |
| 3.1   | Discussion of site performance   | 10 |
| 3.2   | Environmental effects of exercise of consents                                | 10 |
| 3.3   | Evaluation of performance  | 10 |
| 3.4   | Recommendation from the 2016-2017 Annual Report                              | 12 |
| 3.5   | Alterations to monitoring programmes for 2018-2019                           | 13 |
| 3.6   | Exercise of optional review of consent                                       | 13 |
| 4     | Recommendations  | 14 |
|       | Glossary of common terms and abbreviations                                   | 15 |
|       | Bibliography and references  | 16 |
|       | Appendix I Resource consents held by OWSL                                    |    |

## List of tables

|         |  |    |
|---------|--|----|
| Table 1 | Summary of compliance with abstraction rates and data supply | 8  |
| Table 2 | Summary of performance for Consent 0231-4                    | 10 |
| Table 5 | Summary of performance for Consent 5453-2                    | 11 |
| Table 6 | Summary of performance for Consent 10314-1 (from 1 May 2017) | 12 |

## List of figures

|          |                           |   |
|----------|---------------------------|---|
| Figure 1 | OWSL's water service area | 4 |
| Figure 2 | OWSL's water supply plant | 4 |

# 1 Introduction

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

### 1.1.1 Introduction

This report is for the period July 2017 to June 2018 by the Taranaki Regional Council (the Council) describing the monitoring programme associated with resource consents held by the Oaonui Water Supply Ltd. The Company operates rural water supply scheme situated on Arawhata Road, Oaonui.

This report covers the results and findings of the monitoring programme implemented by the Council in respect of the consents held by the Company that relate to abstractions and discharges of water in the Taungatara catchment. This is the second dedicated annual report to be prepared by the Council to cover OWSL's water abstractions and structures. Previously OWSL compliance monitoring was reported in the joint South Taranaki Water Supplies report.

### 1.1.2 Structure of this report

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

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

**Section 2** presents the results of monitoring during the period under review, including scientific and technical data.

**Section 3** discusses the results, their interpretations, and their significance for the environment.

**Section 4** presents recommendations to be implemented in the 2018-2019 monitoring year.

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

### 1.1.3 The Resource Management Act 1991 and monitoring

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

- a. the neighbourhood or the wider community around an activity, and may include cultural and 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 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 and administrative performance

Besides discussing the various details of the performance and extent of compliance by the Company, this report also assigns them a rating for their 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;
- Strong odour beyond boundary but no residential properties or other recipient nearby.

**Improvement required:** Likely or actual adverse effects of activities on the receiving environment were more than minor, but not substantial. There were some issues noted during monitoring, from self reports, or 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 was addressed promptly and co-operatively.

**Good:** Perhaps some administrative requirements of the resource consents were not met at a particular time, however this was addressed without repeated interventions from the Council staff. Alternatively adequate reason was provided for matters such as the no or late provision of information, interpretation of 'best practical option' for avoiding potential effects, etc.

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

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

For reference, in the 2017-2018 year, consent holders were found to achieve a high level of environmental performance and compliance for 76% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 20% of the consents, a good level of environmental performance and compliance was achieved.

## 1.2 Process description

Water is abstracted from the Oaonui Stream via gravity fed intake situated behind a large weir. The water then flows via a settling pond to a small treatment shed where chlorine is added prior to being distributed to rural customers. Water is also supplied to the Maui production station for fire fighting purposes. Once a day the intakes are sluiced to clear accumulated silt.

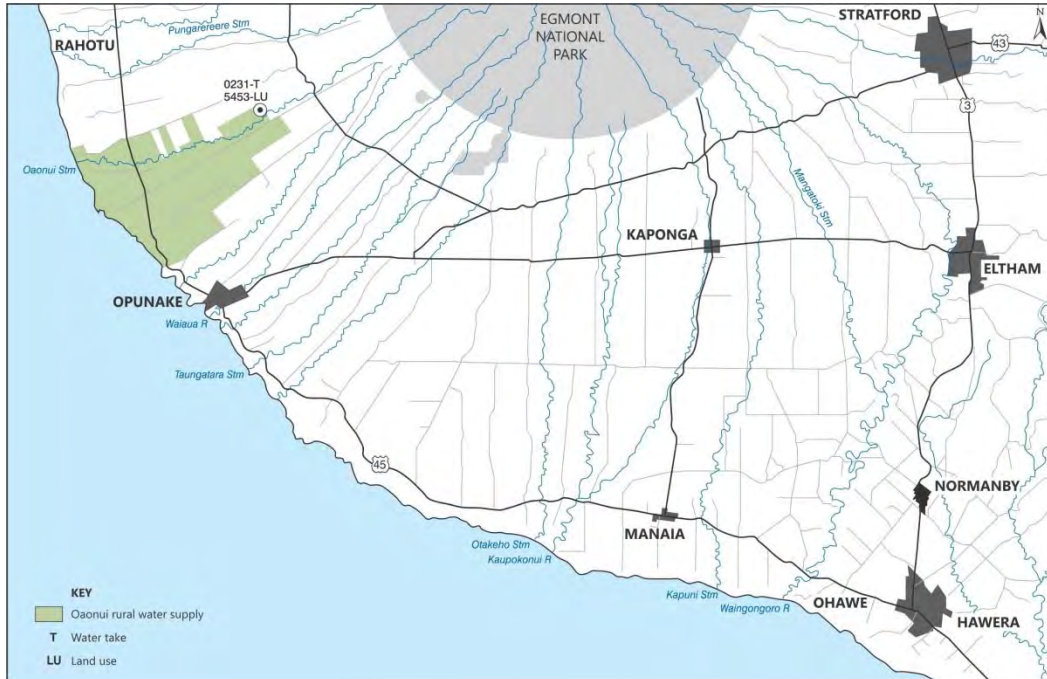


Figure 1 OWSL's water service area

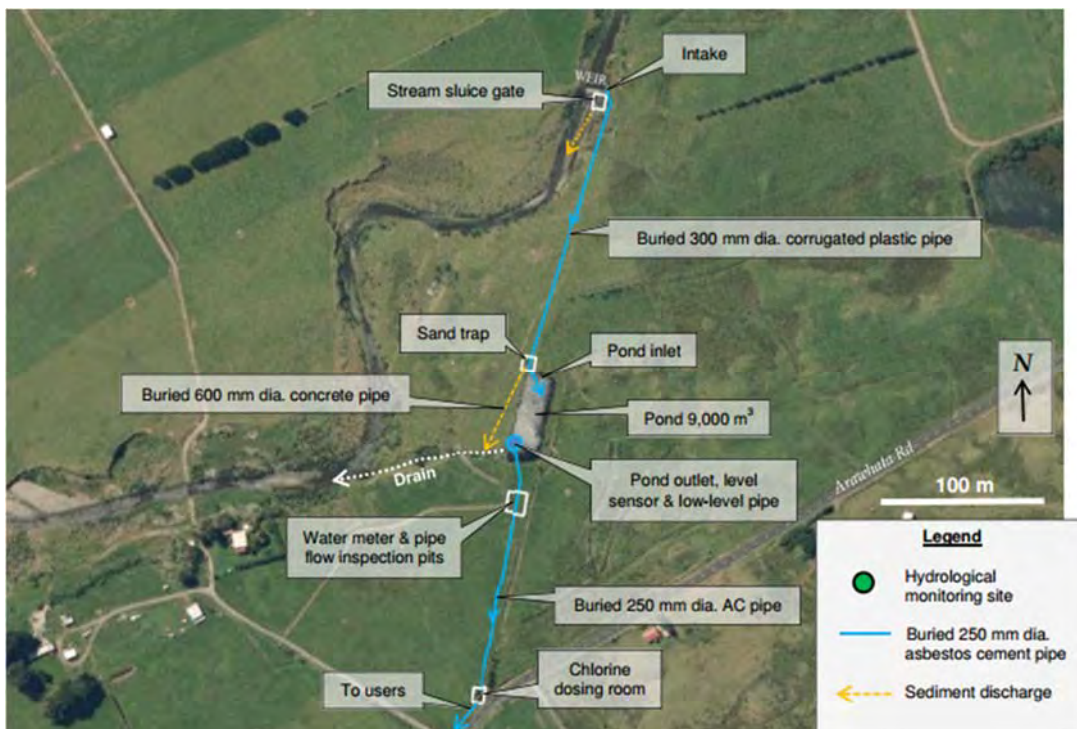


Figure 2 OWSL's water supply plant

## 1.3 Resource consents

### 1.3.1 Water abstraction permit

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.

OWSL holds water permit **0231-4** to take and use water from the Oaonui Stream for a rural community water supply scheme and the Maui Production Station. This permit was issued by the Council on 1 May 2017 under Section 87(d) of the RMA and due to expire on 1 June 2036.

During the application process submissions were received from Te Kahui o Taranaki Trust, Department of Conservation, and Fish and Game. These submissions related to water conservation, residual flows, fish passage, and protection of habitat. These submitters were consulted with, and matters arising were addressed without the need for hearing.

It contains 16 special conditions.

Special conditions one and two deal with water usage and the rates/volumes of abstraction permitted.

Special conditions three to eight deal with measuring, recording and transmission of abstraction and stream flow records.

Special conditions nine to eleven deal with water usage during low flow period periods.

Special condition 12 requires annual payments towards mitigation.

Special condition 13 requires notification of certain types of water usage at the Maui production station.

Special condition 14 requires that the intake be screened.

Special condition 15 requires the consent holder submit a water efficiency report.

Special condition 16 is a review condition.

The permit is attached to this report in Appendix I.

### 1.3.2 Water discharge permit

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.

The Company holds water discharge permit **10314-1** to discharge contaminants (from sluicing the intake) into the Oaonui Stream. This permit was issued by the Council on 1 May 2017 under Section 87(e) of the RMA. It is due to expire on 1 June 2036.

During the application process submissions were received from Te Kahui o Taranaki Trust, Department of Conservation, and Fish and Game. These submissions related to water conservation, residual flows, fish passage, and protection of habitat. These submitters were consulted with, and matters arising were addressed without the need for hearing.

It contains six special conditions.

Special condition one requires that best practice be adopted.

Special condition two sets out effects that the exercise of this consent must not give rise to.

Special condition three prohibits sluicing under certain low flow conditions.

Special condition four deals with management of the sluice gate.

Special condition five requires ecological investigation into effects of OSWL's activities.

Special condition five is review condition.

The permit is attached to this report in Appendix I.

### 1.3.3 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.

OWSL holds land use permit **5453-2** to erect, place, use and maintain a water intake structure on the bed of the Oaonui Stream for water abstraction purposes. The consent was issued by the Council on 1 May 2017 under Section 87(a) of the RMA. It is due to expire on 1 June 2036.

During the application process submissions were received from Te Kahui o Taranaki Trust, Department of Conservation, and Fish and Game. These submissions related to water conservation, residual flows, fish passage, and protection of habitat. These submitters were consulted with, and matters arising were addressed without the need for hearing.

It has four special conditions.

Special condition one requires that the weir be maintained in sound condition.

Special condition two requires that any scour or erosion caused by the weir be repaired.

Special condition three deals with fish passage.

Special condition four is review condition.

This summary of consent conditions may not reflect the full requirements of each condition. The consent conditions in full can be found in the resource consents which are appended to this report.

The permit is attached to this report in Appendix I.

## 1.4 Monitoring programme

### 1.4.1 Introduction

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

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

The monitoring programme for the OWSL site consisted of four primary components.

### 1.4.2 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 consent reviews, renewals or new consent applications;

- advice on the Council's environmental management strategies and content of regional plans; and
- consultation on associated matters.

### 1.4.3 Site inspections

The OWSL site was visited on one occasion during the monitoring period. With regard to consents for the abstraction of or discharge to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process waters. Sources of data being collected by the OWSL were identified and accessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council.

### 1.4.4 Data review

Abstraction rate and volume data was supplied by OWSL and reviewed by Council staff. Stream stage and residual flow data is also reviewed.

### 1.4.5 Fish surveys

Fish surveys are carried out every three years to assess the effectiveness of the fish pass on the weir. The next survey is due in 2018-2019.

## 2 Results

### 2.1 Inspections

28 September 2017

A site visit was undertaken to hold a site meeting to discuss upcoming telemetry installation to meet consent requirements. The landowner and directors of OWSL were present. A suitable site for a river stage pressure transducer was located and discussions were held in regard to installation and method of data transmission. It was agreed that the Council would provide an estimate of cost for the different options. No issues were noted with the weir, fish pass, or sand trap overflow discharge.

6 March 2018

During a site visit it was found that the following conditions of consent 0231-4 were not being complied with:

- Condition 3. Data logger not recording flow and abstraction every 15 minutes.
- Condition 7. Stream flow not being measured.
- Condition 8. Data not being transmitted to Council.
- Condition 11. Report on restricted use not provided.

An abatement notice was issued in regards to the matters above and more details are given in section 2.3.

### 2.2 Abstraction and stream flow data

During the monitoring period OWSL supplied daily volumes of water taken and this was reviewed by Council staff. However as of 1 December 2017 real-time abstraction rate and stream flow data was required by consent 0231-4. Under an abatement notice OWSL arranged for the installation of the necessary instrumentation. Real-time abstraction data started on 9 June 2018 and stream flow data commenced 14 June 2018. However, due to a manufacturing fault in one of the loggers purchased by OWSL, real-time abstraction monitoring ceased on 21 June 2018 and as yet has not been restored. OWSL continues to record daily abstraction volumes.

It is noted however that the current position of the flow meter, it is likely that the rate of abstraction is not accurately being measured due to the reservoir between the flow meter and point of abstraction. Whilst Council is satisfied that meter is recording volumes of water consumed by the scheme, it is not able to measure the rate at which water is being abstracted from the Oaonui Stream (as required by consent conditions and national regulations). The Council is working with the consent holder to achieve compliance in this matter.

Table 1 Summary of compliance with abstraction rates and data supply

| Data Type                    | Compliance with consent limits  | Completeness of data |
|------------------------------|---------------------------------|----------------------|
| Telemetered stream stage     | 100%                            | ~14%                 |
| Telemetered abstraction rate | only consumption rates received | 0%*                  |
| Daily volume                 | 100%                            | 100%                 |

## 2.3 Incidents and Enforcements

The monitoring programme for the year was based on what was considered to be an appropriate level of monitoring, review of data, and liaison OWSL. During the year 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 incident register 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).

In the 2017-2018 period, the Council was required to record non-compliances and undertake enforcement in association with the OWSL's conditions in resource consents or provisions in Regional Plans.

### 6 March 2018

During a site visit it was found that the following conditions of consent 0231-4 were not being complied with.

Condition 3. Data logger not recording flow and abstraction every 15 minutes.

Condition 7. Stream flow not being measured.

Condition 8. Data not being transmitted to Council.

Condition 11. Report on restricted use not provided.

All of these actions were required to be in place by 1 December 2017.

An abatement notice was issued directing OWSL to undertake works necessary to ensure compliance.

In response OWSL submitted a report on the definition and enforcement of restricted use, which was accepted by Council. The Council was contracted to install stream stage recording equipment, and OWSL installed abstraction rate logging and transmission equipment within the timeframes given in the abatement notice.

## 3 Discussion

### 3.1 Discussion of site performance

During the period under review issues were noted in regard to OWSL not meeting timeframes for the installation of data recording and transmission equipment and in the submission of report required by consent 0231-4. Whilst most of these matters have now been resolved, issues still exist in relation to the recording and transmission of real-time abstraction rates.

It is noted however that the current position of the flow meter, it likely that the rate of abstraction is not accurately being measured due to the reservoir between the flow meter and point of abstraction. Whilst Council is satisfied that meter is recording volumes of water consumed by the scheme, it is not able to measure the rate at which water is being abstracted from the Oaonui Stream (as required by consent conditions and national regulations). The Council is working with the consent holder to achieve compliance in this matter.

### 3.2 Environmental effects of exercise of consents

No effects were noted during inspection and water abstraction volumes were complied with for over of the monitoring period. The fish pass was found to in be good order and a fish screen was fitted to the intake. No effects of weir sluicing and water abstraction were noted, however further biomonitoring is required to ascertain this.

### 3.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 2 to 4.

Table 2 Summary of performance for Consent 0231-4

| <b>Purpose: To take and use water from the Oaonui Stream for a rural community water supply scheme and the Maui Production Station</b> |  |   |
|--|--|---|
| <b>Condition requirement</b>   | <b>Means of monitoring during period under review</b>                                      | <b>Compliance achieved?</b>   |
| 1. Permitted uses of water   | Inspection/liaison with consent holder   | Yes   |
| 2. Permitted rates and volume of abstraction   | Data received  | No- volumes received - <i>actual</i> abstraction rate data not received |
| 3. Installation of a meter and logger by 1 December 2017   | Data received and meter inspected  | No – meter installed but no recording abstraction rates                 |
| 4. Certification of equipment  | National environmental standards verification in place                                     | Yes   |
| 5. Notification of equipment failure   | Notification received  | Yes   |
| 6. Accessibility of metering equipment   | Inspection   | Yes   |
| 7. Measurement of stream flow  | Required by 1 December 2017 - not supplied until June 2018 (15% of required data supplied) | No  |



| <b>Purpose: To take and use water from the Oaonui Stream for a rural community water supply scheme and the Maui Production Station</b> |   |   |
|--|---|---|
| <b>Condition requirement</b>   | <b>Means of monitoring during period under review</b> | <b>Compliance achieved?</b>                                   |
| 8. Provision of records  | Data received -                                       | No-data was late and no abstraction rates were received.      |
| 9. Restriction of water use during low flows   | No low flow period identified                         | N/A   |
| 10. Restriction of water use at Maui Production Station during low flow periods  | No low flow period identified                         | N/A   |
| 11. Provision of report describing requiring water to ensure human and animal health by 1 December 2017                                | Review of submitted report                            | No -report received late after an abatement notice was issued |
| 12. Financial contributions of \$2200 per year   | Payment received                                      | Yes   |
| 13. Notification of hydrotesting at Maui production station.   | No notification received                              | N/A   |
| 14. Intake to adequately screen to prevent entrainment of fish.  | Inspection  | Yes   |
| 15. Provision of an efficiency report  | Not required until 31 August 2018                     | Yes – report received   |
| 16. Review condition   | Review not required                                   | N/A   |
| Overall assessment of consent compliance and environmental performance in respect of this consent                                      |   | <b>Good</b>   |
| Overall assessment of administrative performance in respect of this consent  |   | <b>Improvement required</b>                                   |

N/A = not applicable

Table 3 Summary of performance for Consent 5453-2

| <b>Purpose: To use and maintain a weir and water intake structure on the bed of the Oaonui Stream, and to dam water, for water supply purposes</b> |   |                             |
|--|---|-----------------------------|
| <b>Condition requirement</b>   | <b>Means of monitoring during period under review</b> | <b>Compliance achieved?</b> |
| 1. Maintain weir to be fit for purpose   | Inspection  | Yes                         |
| 2. Repair erosion or scour caused by weir  | Inspection  | Yes                         |
| 3. Provide fish passage  | Inspection and fish surveys                           | Yes                         |
| 4. Review provision  | A review is not required                              | N/A                         |

| <b>Purpose: To use and maintain a weir and water intake structure on the bed of the Oaonui Stream, and to dam water, for water supply purposes</b> |   |                             |
|--|---|-----------------------------|
| <b>Condition requirement</b>   | <b>Means of monitoring during period under review</b> | <b>Compliance achieved?</b> |
| Overall assessment of consent compliance and environmental performance in respect of this consent  |   | <b>High</b>                 |
| Overall assessment of administrative performance in respect of this consent  |   | <b>High</b>                 |

N/A = not applicable

Table 4 Summary of performance for Consent 10314-1 (from 1 May 2017)

| <b>Purpose: To discharge water and contaminants into the Oaonui Stream from sluicing a weir</b>   |   |                             |
|---|---|-----------------------------|
| <b>Condition requirement</b>  | <b>Means of monitoring during period under review</b> | <b>Compliance achieved?</b> |
| 1. Adopt best practice  | Inspection/liason with consent holder                 | Yes                         |
| 2. Effects on receiving environment   | Inspection  | Not assessed this period    |
| 3. Provide report on effects on ecology   | Report not due until June 2020                        | N/A                         |
| 4. Review provision   | Review not required                                   | N/A                         |
| Overall assessment of consent compliance and environmental performance in respect of this consent |   | <b>High</b>                 |
| Overall assessment of administrative performance in respect of this consent                       |   | <b>High</b>                 |

N/A = not applicable

During the year OWSL demonstrated a good level of environmental performance. However an improvement was required in OWSL's level of administrative performance with the resource consents as defined in Section 1.1.4. The data and reporting requirements of the consent 0231-4 were not met within the set timeframe and it is noted however that the current position of the flow meter, that the rate of abstraction is not accurately being measured due to the reservoir between the flow meter and point of abstraction. Whilst Council is satisfied that meter is recording volumes of water consumed by the scheme, it is not able to measure the rate at which water is being abstracted from the Oaonui Stream (as required by consent conditions and national regulations). The Council is working with the consent holder to achieve compliance in this matter.

### 3.4 Recommendation from the 2016-2017 Annual Report

In the 2016-2017 Oaonui Water Supply Limited Monitoring Report it was recommended:

1. THAT for 2017-2018 that monitoring programme for the OWSL be amended to suit new requirements set out by the renewed consents.

This recommendation was implemented as required.

### 3.5 Alterations to monitoring programmes for 2018-2019

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

- the extent of information made available by previous authorities;
- its relevance under the RMA;
- its obligations to monitor emissions/discharges and effects under the RMA; and
- to report to the regional community.

The Council also takes into account the scope of assessments required at the time of renewal of permits, and the need to maintain a sound understanding of industrial processes within Taranaki emitting to the atmosphere/discharging to the environment.

It is proposed that for 2018-2019 that monitoring programme for the OWSL be amended to include discharge monitoring, stream gauging and telemetry site maintenance. It is also recommended that the monitoring include macroinvertebrate surveys as required by ecological reporting conditions of consent 0231-4.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2018-2019.

### 3.6 Exercise of optional review of consent

Resource consents 0231-4, 5453-2 and 10314-1 provide for an optional review of the consents in June 2019. Conditions in these consents allow the Council to review each consent, for the purposes of: ensuring efficient water use; and/or 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.

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

## 4 Recommendations

1. THAT for 2018-2019 the monitoring programme for the OWSL, be amended to include discharge monitoring, stream gauging, telemetry site maintenance and macroinvertebrate surveys.
2. THAT should there be issues with environmental or administrative performance in 2018-2019, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
3. THAT the option for a review of resource consents 0231-4, 5453-2 and 10314-1 in June 2019, as set out in the consents conditions, not be exercised, on the grounds that the current conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent.

## 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.  |
| Fresh             | Elevated flow in a stream, such as after heavy rainfall.  |
| g/m <sup>3</sup>  | 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.   |
| Incident Register | 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.  |
| 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.  |
| 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.   |

For further information on analytical methods, contact a Science Services Manager.

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# Appendix I

## Resource consents held by OWSL

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



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

Name of  
Consent Holder: Oaonui Water Supply Limited  
PO Box 3157  
New Plymouth 4347

Decision Date: 5 April 2017

Commencement Date: 1 May 2017

**Conditions of Consent**

Consent Granted: To take and use water from the Oaonui Stream for a rural community water supply scheme including the Maui Production Station

Expiry Date: 1 June 2036

Review Date(s): June 2019 and 3-yearly intervals thereafter

Site Location: Arawhata Road, Oaonui

Grid Reference (NZTM) 1676831E-5641435N

Catchment: Oaonui

*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 taking water only for the purposes of providing:
  - (a) a general supply for domestic and farm use within the scheme area;
  - (b) water for general domestic uses and firefighting training at the Maui Production Station; and
  - (c) water for testing of bunds and tanks at the Maui Production Station.
2. The rate of taking shall not exceed 50 litres per second, and the volume taken in any 7 day period ending at midnight (New Zealand Standard Time) shall not exceed 28,000 cubic metres.
3. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking (or a nearby site in accordance with Regulation 10 of the *Resource Management (Measurement and Reporting of Water Takes) Regulations 2010*. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes, shall be made available to the Chief Executive, Taranaki Regional Council at all reasonable times.

*Note: Water meters and dataloggers 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 and dataloggers have a limited lifespan.*

4. 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:

- (i) within 30 days of the installation of a water meter or datalogger;
- (ii) 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
- (iii) no less frequently than once every five years.

## Consent 0231-4.0

5. 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 and a maintenance report provided to the Chief Executive, Taranaki Regional Council within 30 days of the work occurring.
6. Any water meter or datalogger shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval. In addition the data logger shall be designed and installed so that Taranaki Regional Council officers can readily verify that it is accurately recording the required information.
7. From 1 December 2017, for flows less than 500 litres per second, the consent holder shall measure and record the flow in the Oaonui Stream at the take site at intervals not exceeding 15 minutes to an accuracy of  $\pm 10\%$ .
8. The records of water taken (condition 3) and of the stream flow (condition 7) 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) from 1 December 2017, be transmitted directly to the Taranaki Regional Council's computer system, within 2 hours of being recorded.
9. When the flow in the Oaonui Stream, measured immediately downstream of the intake point, has at any time on each of the three previous days been less than 151 litres per second, the taking of water shall be restricted to the minimum amount necessary to maintain the health and safety of people and animals (i.e. garden watering and other non-essential uses are prohibited).
10. No water shall be used for testing bunds or product storage tanks at the Maui Production Station when the flow in the Oaonui Stream, measured immediately downstream of the intake, has at any time on each of the three previous days been less than 151 litres per second.
11. Before 1 December 2017 the consent holder shall provide a report to the Chief Executive, Taranaki Regional Council that:
  - (a) identifies uses of water that are necessary to maintain the health and safety of people and animals; and
  - (b) details methods that the consent holder will use to ensure that only those uses identified in condition 11(a) will occur when the flow immediately downstream of the intake is less than 151 L/s.

The consent holder shall also provide a copy of this report to Te Kahui o Taranaki Trust and to Fish and Game.

## Consent 0231-4.0

12. The consent holder shall mitigate or offset the environmental effects of the take by making annual payments of \$2200 (plus GST) to the Taranaki Regional Council as a financial contribution for the purpose of funding environmental enhancement projects. The environmental enhancement projects are, as first priority, to be in the Oaonui Stream catchment, and would include: enhancing, fencing and protection of wetlands, small streams and habitats of indigenous species. The amount to be paid shall be adjusted annually according to the consumer price index, or similar, to account for the effects of inflation, and be made no later than 1 September each year.
13. The consent holder shall notify the Taranaki Regional Council when the Maui Production station is undertaking testing on vessels and bunds. Notification shall include the consent number and shall detail the amount of water needed, type of test and test date and be emailed to [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz).
14. The consent holder shall ensure that the intake at the weir is designed to avoid fish entering the intake or being trapped against the screen.
15. Before 31 August 2018 the consent holder shall provide an 'Efficiency Audit Report', prepared by a suitably qualified independent person, to the Chief Executive, Taranaki Regional Council. The report shall have the following objectives:
  - (a) characterising 'efficient water use' in the context of the Oaonui Water Supply;
  - (b) describing the current level of efficiency of the Oaonui Water Supply Scheme;
  - (c) identifying any barriers to efficient water use; and
  - (d) identifying how efficient water use can be achieved, including a timetable.

The report shall include as a minimum:

- (i) any work that could be undertaken to detect and minimise leaks;
- (ii) identification of water use efficiency and conservation measures that shall be practiced by individual users in order to achieve an appropriate level of efficiency;
- (iii) water use benchmarking data for the region, how the Oaonui Water Supply Scheme compares and reason for any significant differences;
- (iv) an assessment of the costs and benefits of individual metering;
- (v) the types of shed washdown methods used by farms in the scheme and how those methods contribute to efficient water use; and
- (vi) Recommendations to achieve efficient water use as appropriate.

The consent holder shall also provide a copy of this report to Te Kahui o Taranaki Trust and to Fish and Game.

## Consent 0231-4.0

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 2019 and at 3-yearly intervals thereafter for the purposes of:
- (a) ensuring efficient water use; and/or
  - (b) 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 5 April 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**





**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: Oaonui Water Supply Limited  
PO Box 3157  
New Plymouth 4347

Decision Date: 5 April 2017

Commencement Date: 1 May 2017

**Conditions of Consent**

Consent Granted: To use and maintain a weir and water intake structure on the bed of the Oaonui Stream, and to dam water, for water supply purposes

Expiry Date: 1 June 2036

Review Date(s): June 2019 and 3-yearly intervals thereafter

Site Location: Arawhata Road, Oaonui

Grid Reference (NZTM) 1676822E-5641433N

Catchment: Oaonui

*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 maintain the weir so that it remains sound and fit for purpose.
2. The consent holder shall repair any erosion or scour of the river bed or banks caused by the weir and take reasonable steps to stop it recurring.
3. The weir shall not restrict the passage of fish.
4. 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 2019, and 3-yearly intervals thereafter 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 5 April 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

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

Name of  
Consent Holder: Oaonui Water Supply Limited  
PO Box 3157  
New Plymouth 4347

Decision Date: 5 April 2017

Commencement Date: 1 May 2017

**Conditions of Consent**

Consent Granted: To discharge water and contaminants into the Oaonui Stream from sluicing a weir

Expiry Date: 1 June 2036

Review Date(s): June 2019 and 3-yearly intervals thereafter

Site Location: Arawhata Road, Oaonui

Grid Reference (NZTM) 1676828E-5641424N (sluicing discharge)  
1676624E-5641124N (sand trap discharge)

Catchment: Oaonui

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

**General condition**

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

**Special conditions**

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge and the activity generally, including by appropriately managing the timing, frequency and duration of sluicing.
2. The exercise of this consent shall not give rise to any of the following effects in the Oaonui Stream beyond a distance of 50 metres downstream of a discharge point:
  - (a) any conspicuous change in the colour or visual clarity;
  - (b) any emission of objectionable odour;
  - (c) the rendering of fresh water unsuitable for consumption by farm animals; and
  - (d) any significant adverse effects on aquatic life.
3. This consent shall not be exercised if, at any time on each of the three previous days, the flow in the Oaonui Stream downstream of the weir has been less than 151 litres per second.
4. The sluicing shall be managed to ensure that within 2 minutes of the sluice gate being closed the stream is flowing over the weir.
5. The consent holder shall ensure that an investigation is undertaken into the effects on the ecology of Oaonui Stream resulting from the exercise of this consent in combination with the damming authorised by consent 5453-2.0 and the taking authorised by consent 0231-4.0. A report on that investigation shall be provided to the Chief Executive, Taranaki Regional Council before 1 June 2020. The investigation shall be based on MCI and fish surveys.

The consent holder shall provide a copy of this report to Te Kahui o Taranaki Trust and to Fish and Game.

Consent 10314-1.0

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 2019 and at 3-yearly intervals thereafter, 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 5 April 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**