

Port Taranaki Industries
Monitoring Programme
Annual Report
2016-2017

Technical Report 2017-105

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Executive summary

This report for the period July 2016 to June 2017 describes the monitoring programme implemented by the Taranaki Regional Council (the Council) to assess the environmental performance of the companies operating in and around Port Taranaki, New Plymouth. Port Taranaki Ltd operates Port Taranaki. Downer New Zealand Ltd and Technix Taranaki Terminal Ltd operate bitumen plants within the bounds of the port. Methanex New Zealand Ltd operates a methanol storage facility at the port, and New Zealand Oil Services Ltd provides terminal operation services involving the storage and distribution of fuel.

The companies hold a total of eight resource consents, which include 60 conditions setting out the requirements that they must satisfy. The companies hold seven consents to discharge effluent/stormwater into the Tasman Sea, and one consent to discharge emissions into the air. In addition, Port Taranaki Ltd also holds a Certificate of Compliance with regards to air discharges.

During the monitoring period, Port Taranaki demonstrated an overall good level of environmental performance. Downer New Zealand Ltd, Technix Taranaki Terminal Ltd, Methanex New Zealand Ltd and New Zealand Oil Services Ltd all demonstrated an overall high level of environmental performance compliance with the consents monitored under this annual report.

The Council's monitoring programme for the period under review included three site inspections of Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd, seven site inspections of Methanex New Zealand Ltd and four at New Zealand Oil Services Ltd. Water samples were collected for physicochemical analysis on selected inspections.

During the period under review, Port Taranaki Ltd obtained a 'good' rating for environmental and 'high rating' for administrative performance and compliance with the resource consents.

Suspended solids in two samples marginally exceeded the consent limits during first flush. This was due to heavy rain conditions at times when log loading onsite was in full operation. There were no recorded incidents. The environmental performance of Port Taranaki Ltd remained good under challenging/worst case scenario conditions.

During the same period, Downer New Zealand Ltd, Technix Taranaki Terminal Ltd and New Zealand Oil Services Ltd all demonstrated a high level of environmental and administrative performance relating to compliance with the resource consents.

Methanex New Zealand has also received a high rating for their environmental and administrative performance with regard to the consent exercised during the review period. During this period however, there was an unauthorised discharge of methanol to groundwater associated with activities undertaken by Methanex New Zealand Ltd. The discharge was a result of suspected leakage from a storage tank and/or connected pipework and was unrelated to the exercise of their stormwater consent, with which compliance is assessed in this report. Investigation relating to this incident is ongoing and may impact the Company's overall environmental performance rating in forthcoming monitoring periods. No other issues were noted during inspections of the Methanex New Zealand Ltd site, and all discharge samples were compliant with consent conditions.

For reference, in the 2016-2017 year, consent holders were found to achieve a high level of environmental performance and compliance for 74% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 21% of the consents, a good level of environmental performance and compliance was achieved.

This report includes recommendations for the 2017-2018 year.

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1 Introduction

1.1 Compliance monitoring programme reports and the Resource Management Act 1991

1.1.1 Introduction

This report is the Annual Report for the period July 2016 to June 2017 by the Taranaki Regional Council (the Council) describing the monitoring programme associated with resource consents held by Port Taranaki Ltd, Downer New Zealand Ltd, Technix Taranaki Terminal Ltd (formerly Russell Matthews Industries Ltd), Methanex New Zealand Ltd, and New Zealand Oil Services Ltd. Port Taranaki Ltd operates the Port of Taranaki. Downer New Zealand Ltd operates a bitumen facility based at the port. Technix Taranaki Terminal Ltd has a bulk bitumen industry at the Port which became operational in November 2012. Methanex New Zealand Ltd operates a methanol storage facility within the boundary of the Port and New Zealand Oil Services Ltd are located just outside the Port area and are primarily involved with diesel storage and distribution.

This report covers the results of the monitoring programme implemented by the Council in respect of the consents held by the companies that relate to discharges of water to the Tasman Sea. The consent held by Downer New Zealand Ltd that relates to emissions to air is also included. This is the 22nd report to be prepared by the Council to cover Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd discharges and their effects. Methanex New Zealand Ltd, and New Zealand Oil Services Ltd (previously monitored and reported in the Hongihongi catchment programme) have been incorporated within this report with the intention of streamlining the monitoring and reporting processes.

1.1.2 Structure of this report

Section 1 sets out general information about compliance monitoring under the *Resource Management Act 1991* (RMA) and the Council's obligations and approach to monitoring sites through annual programmes. This section also covers the resource consents held by Port Taranaki Ltd, Downer New Zealand Ltd, Technix Taranaki Terminal Ltd, Methanex New Zealand Ltd, and New Zealand Oil Services Ltd, the nature of the monitoring programme in place for the period under review, and the activities and operations conducted in the port.

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

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

Section 4 presents recommendations to be implemented in the 2017-2018 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 performance

Besides discussing the various details of the performance and extent of compliance by the consent holder/s during the period under review, this report also assigns a rating as to each consent holders' environmental and administrative performance.

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 consent holders' 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 were addressed promptly and co-operatively.

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

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

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

For reference, in the 2016-2017 year, consent holders were found to achieve a high level of environmental performance and compliance for 74% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 21% of the consents, a good level of environmental performance and compliance was achieved.

1.2 Process description

1.2.1 History

Port Taranaki was established in 1875 and is the only deep water seaport on New Zealand's western seaboard. Work on a breakwater began in 1881 to provide safe anchorage from the Tasman Sea. Port Taranaki is now well sheltered by two breakwaters which extend from either end of the naturally curved bay.

The port has continued to grow and today handles large volumes of international and coastal cargo. The port is also a servicing base for sea transport and related industries and has been a provider of related maritime support and heavy lift services since the 1960's. The port handles a diversity of cargo and offers a full range of providing, stevedoring, ship agency and government border protection services.



Photo 1 Port Taranaki

1.2.2 Environment

Port Taranaki has continued to change from being primarily a hydrocarbon and container shipping port to one that handles large volumes of bulk dry cargo including logs, fertilisers, animal feed (palm kernel) and coal. In the 2016-2017 monitoring period, log exports were at a record high, with 421,592 freight tonnes leaving over the wharves, compared with 357,885 freight tonnes in 2015-2016 and 209,100 freight tonnes in 2014-2015.

Historically, the move to bulk cargo resulted in an increase in material deposited on the ground in the log and coal storage areas. When it rained this material would wash into the stormwater system, resulting in high suspended solids. In order to minimise deleterious effects on the receiving environment, Port Taranaki Ltd have implemented a number of preventative measures since 2012, including upgrading the stormwater treatment system and improving stormwater management procedures.



Photo 2 Logging trucks at Port Taranaki (provided by Paul Campbell, Port Taranaki)

Another environmental issue associated with the increase in bulk dry cargo imports and log exports is that of dust control. Historically, during dry weather, dust was problematic within the Works Yard when log volume was high (W Yard, Figure 1). In addition, product could be blown from bulk ships, particularly during offloading of palm kernel. Palm kernel is used as high-protein feed for dairy cattle and the offloading of large volumes from vessels has previously resulted in unpleasant odours and undesirable depositions. Recently, there has been a large increase in the volume of palm kernel being offloaded from ships at the port (Photo 3). Port Taranaki Ltd have implemented a number of dust control measures over recent years, including investing in two new replacement hoppers to reduce the risk of dust propagation from bulk dry cargo unloading operations.

W Log-yard and B Log-yard (Figure 1) have been sealed. Improving stormwater quality was a key factor in the decision to seal both of these areas. In addition a road sweeping and chamber emptying programme has been implemented and the stormwater pathways and chambers are regularly cleaned.

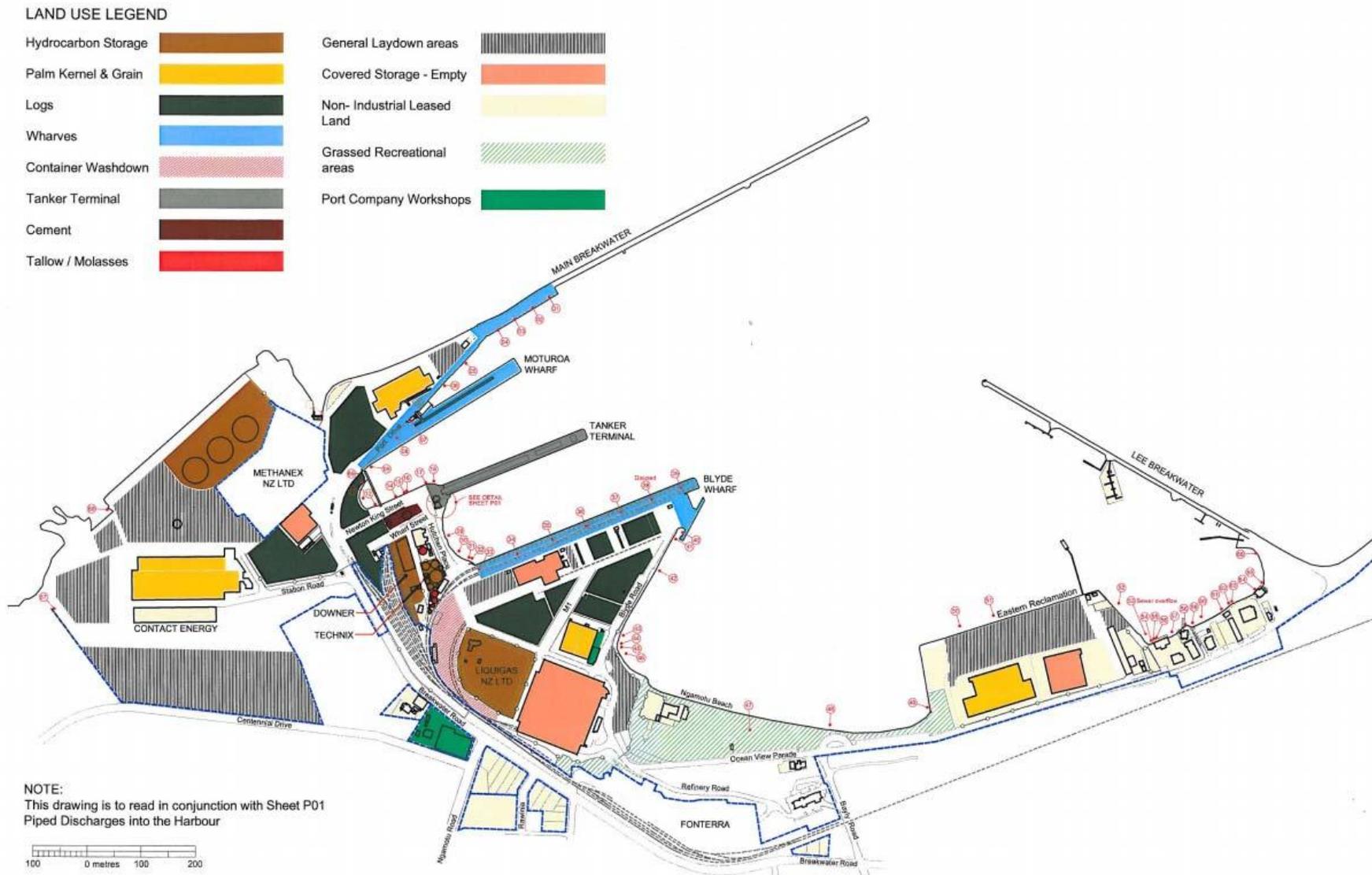


Figure 1 Land use plan of Port Taranaki showing the location of the piped stormwater discharges and the log yards



Photo 3 Palm kernel in the Moturoa Bulk Store May 2014

1.2.3 Industries operating within Port Taranaki

Downer New Zealand Ltd operates a bitumen plant located within the bounds of Port Taranaki. The plant supplies bitumen for roading and associated uses across the North Island.

Technix Taranaki Terminal Ltd also operates a bulk bitumen plant located within the bounds of Port Taranaki. The plant supplies bitumen for roading and associated uses. The site had not been operational for some years, but re-established operations during the 2012-2013 monitoring period.

Methanex New Zealand Ltd operates a methanol storage facility at the port. Methanol is piped to the tanks from the methanol plants at Motunui and Waitara Valley. Site stormwater is discharged via an outlet located adjacent to the New Plymouth Power Station cooling water outlet and can only occur when the discharge valve is opened manually. The separator system on site provides treatment for any day to day spills which may occur inside the bunded area. Due to the storage capacity available in the bunded area the discharge of stormwater is periodic and can be planned in advance. Stormwater is tested to ensure compliance with consent requirements prior to release. Methanex New Zealand Ltd provides monthly reports to the Council detailing when stormwater was discharged from the site and the results of chemical monitoring.



Figure 2 Aerial photograph of the Methanex New Zealand Ltd site at Port Taranaki

The New Zealand Oil Services Ltd site primarily discharges treated stormwater and operational water from operations associated with motor spirit and diesel oil terminal activities resulting from distributions and marine tanker inputs. Stormwater and operational water is discharged after passage through a Sepa oil separator. After settling, dewatering of the liquid occurs via the oil separator. Major on-site maintenance requires the hydro-testing of facilities to ensure integrity prior to accepting product. The hydrostatic testing water forms part of the operational water and is discharged via the separator.

Closed drainage was installed on the site to reduce stormwater runoff and operational water ponding in the bunded area. Where possible, stormwater is intercepted and fed to the interceptor holding pit by pipe, prior to processing through the Sepa separator. Treated stormwater and operational water is discharged into Port Taranaki's stormwater system on Breakwater Road which drains to the middle of the bay between the Newton King tanker terminal and Moturoa wharf.

The site is expected to be operating until August 2017.



Figure 3 Aerial photograph of the New Zealand Oil Services Ltd Centennial Drive site

1.3 Resource consents

1.3.1 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.

Port Taranaki Ltd holds water discharge permit **0197-2.1** to cover the discharge of stormwater including from a coal storage area and washdown water from Port Taranaki and environs into the Tasman Sea. This permit was issued by the Council on 13 October 1999 under Section 87(e) of the RMA. It is due to expire on 1 June 2020. The consent was transferred on 11 October 2005 from Westgate Transport Ltd.

There are seven special conditions attached to the consent.

Condition 1 relates to best practicable option to remove contaminants from the wharf prior to washdown.

Condition 2 stipulates chemical concentration limits in the stormwater discharges.

Condition 3 relates to the mixing zone and effects of discharge.

Condition 4 requires a stormwater and washdown Water Management Plan be prepared.

Conditions 5 and 6 relate to training of port staff and Contingency Planning.

Condition 7 is a review provision.

Port Taranaki Ltd holds water discharge permit **0198-2** to cover the discharge of washdown wastewater from wharves, equipment and the surrounding area into the Tasman Sea. This permit was issued by the Council on 13 October 1999 under Section 87(e) of the RMA. It is due to expire on 1 June 2020. The consent was transferred on 11 October 2005 from Westgate Transport Ltd.

The consent has seven special conditions attached to it.

Condition 1 relates to best practicable option.

Condition 2 stipulates concentration limits in the discharge while condition 3 relates to the mixing zone and effects of the discharge.

Condition 4 requires a Washdown Wastewater Management Plan be prepared.

Condition 5 and 6 relate to training of staff and Contingency Planning.

Condition 7 is a review provision.

Methanex New Zealand Ltd hold coastal discharge permit **0811-2** to discharge stormwater and associated contaminants into the Tasman Sea at Port Taranaki from a methanol storage tank bunded area. This permit was issued by the Council on 6 May 2008 as a resource consent under Section 87(c) of the RMA. It is due to expire on 1 June 2026.

The consent has six special conditions attached to it.

Condition 1 requires the consent holder to adopt best practicable option to prevent or minimise adverse effects.

Condition 2 requires that the consent be exercised in accordance with information supplied.

Condition 3 places concentration limits on certain chemicals in the discharge.

Condition 4 deals with mixing zone and effects of discharge in the receiving water.

Condition 5 requires the consent holder to prepare and maintain a contingency plan.

Condition 6 is a review provision.

New Zealand Oil Services Ltd hold coastal discharge permit **4672-2** to discharge treated stormwater and operational water from an oil terminal site into the Port Taranaki stormwater system and into the Tasman Sea. The permit was issued by the Council on 28 May 2008 as a resource consent under Section 87(c) of the RMA. It is due to expire on 1 June 2026.

The consent has ten special conditions attached to it.

Condition 1 requires the consent holder to adopt the best practicable option.

Condition 2 restricts the discharge to less than 12 L/s.

Condition 3 states the concentration limits.

Condition 4 lists the effects the discharge shall not give rise to.

Condition 5 requires the preparation of a stormwater management plan within three months of commencement of the consent.

Condition 6 requires the consent holder to prepare a contingency plan within six months of commencement of the consent.

Condition 7 requires the consent holder to provide the Council with the results of any physicochemical analysis carried out.

Condition 8 states the consent holder shall ensure the Sepa interceptor is maintained and cleaned out regularly.

Condition 9 relates to consent lapse.

Condition 10 is a review provision.

Downer New Zealand Ltd hold water discharge permit **4674-2** to discharge stormwater from a bitumen industry emulsion manufacture, storage and load out site, into the existing Port Taranaki stormwater system and into the Tasman Sea. This permit was issued by the Council on 12 November 2008 under Section 87(e) of the RMA. It is due to expire on 1 June 2026.

There are nine special conditions attached to the consent.

Condition 1 requires the consent holder to adopt the best practicable option to prevent or minimise adverse effects on the environment.

Conditions 2 and 3 deal with the stormwater catchment and treatment.

Condition 4 requires that hazardous substance storage areas are bunded with drainage to sumps or appropriate recovery systems.

Condition 5 sets out standards that the stormwater must meet prior to discharge.

Conditions 6 and 7 require the consent holder to maintain contingency and stormwater management plans.

Condition 8 stipulates that the consent holder notify Council of any changes to processes or operations that may alter the nature of the discharge.

Condition 9 deals with review of the consent.

Technix Taranaki Terminal Ltd hold water discharge permit **4712-2** to discharge stormwater from a bitumen industry emulsion manufacture, storage and load out site, into the existing Port Taranaki stormwater system and into the Tasman Sea. This permit was issued by the Council on 12 November 2008 under Section 87(e) of the RMA. It is due to expire on 1 June 2026.

This consent was transferred from Downer New Zealand Ltd to Technix Taranaki Terminal Ltd in May 2010.

The special conditions attached to this consent are the same as in 4674 above.

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

1.3.2 Air discharge permits

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

Downer New Zealand Ltd holds air discharge permit **4715-3** to cover the discharge of emissions into air from bitumen blowing operations and associated processes. This permit was issued by the Council on 28 May 2008 under Section 87(e) of the RMA. This consent expires on 1 June 2026.

The previous consent was transferred on 12 January 2006 from Bitumen Supplies Ltd to Works Infrastructure, and then to Downer New Zealand Ltd in November 2007. This consent expired on 1 June 2008. Downer New Zealand Ltd was granted consent 4715-3 in May 2008.

This permit has eight special conditions attached to it.

Condition 1 requires the consent holder adopt the best practicable option to minimise emissions to the air.

Condition 2 requires the burner is maintained by a trained service person every twelve months to optimise combustion efficiency.

Condition 3 requires the consent holder to notify the Council prior to making any changes to the process or operation at the site.

Condition 4 states the discharge of particulate material shall not exceed 125 mg/m³ of air.

Condition 5 requires the consent holder controls emissions so the maximum ground level concentration does not exceed exposure standards.

Condition 6 requires all equipment used to avoid or mitigate effects on the environment from the discharge of emissions shall be maintained in optimum condition.

Condition 7 states that the discharges shall not give rise to any odour at or beyond the boundary of the site.

Condition 8 is a review provision.

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

Port Taranaki Ltd holds Certificate of Compliance **6882-1** to discharge emissions to air associated with the import, storage, and export of coal through Port Taranaki generally. This certificate was issued by the Council on 12 May 2006 pursuant to Section 139 of the RMA.

The certificate is contingent on the requirement that the discharge does not result in offensive or objectionable odours, or noxious, toxic or dangerous levels of airborne contaminants beyond the boundary of the property.

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

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.

1.4 Monitoring programme

1.4.1 Introduction

Section 35 of the RMA sets out an obligation for the Council to gather information, monitor, and conduct research on the exercise of resource consents, and the effects arising, within the Taranaki region.

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.

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

1.4.3 Site inspections and sampling

1.4.3.1 Water

The sites were visited three times in relation to the consents held by Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd. Methanex New Zealand Ltd and New Zealand Oil Services Ltd were inspected seven and four times respectively. With regard to consents for discharge to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Discharge and seawater samples were collected during selected inspections from set sampling points (Tables 1 and 2).

1.4.3.2 Air

Air inspections focused on plant processes with associated actual and potential emission sources and characteristics, including potential odour, dust, noxious or offensive emissions. The neighbourhood was surveyed for environmental effects.

1.4.4 Information requirements

Various conditions of the consents require the consent holders to submit plans and provide information. This information is reviewed by Council staff.

2 Results

2.1 Water

2.1.1 Inspections

2.1.1.1 Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd

Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd sites were visited three times for routine inspections during the 2016-2017 monitoring period. Stormwater samples were collected from around the Port area during all three inspections (Table 1).

Routine inspections focused on assessing odours, stormwater outlets, wharf areas and washdown areas. The Port was deemed to be in a satisfactory condition during all inspections. No odour or dust issues were recorded.

2.1.1.2 Methanex New Zealand Ltd and New Zealand Oil Services Ltd

The Methanex New Zealand Ltd site was visited seven times during the 2016-2017 monitoring period. On each occasion the tank bunds, stormwater drains, and the separator were checked. During the monitoring period Methanex New Zealand Ltd undertook significant work on both tank bunds. The details of these works are outlined in the consent compliance report provided by Methanex New Zealand Ltd (Appendix II). Over the reporting period 48 discharges took place and were monitored by Methanex New Zealand Ltd. All discharges were found to be compliant with consent conditions (condition 3, consent 0811-2).

During the first half of the monitoring period sand ingress prevented discharge through the Methanex New Zealand Ltd discharge pipe. During this time the Port Taranaki Ltd stormwater system was used. From January 2017, the sand cleared naturally and discharge recommenced through the Methanex New Zealand Ltd discharge pipe.

The New Zealand Oil Services Ltd site was visited four times during the 2016-2017 monitoring period and found to be satisfactory during all inspections. On each occasion the tank bunds, separators, stormwater catchment and drains were checked, and no issues were noted. Two stormwater samples were collected (Table 2).

2.1.2 Results of stormwater and washdown water discharge monitoring

Sampling sites for Port Taranaki Ltd are shown in Figure 4 and the results are presented in Table 1.

In the discharge samples, hydrocarbons were undetectable and below consent limits in all samples. pH ranged between 6.3 and 7.5 in the discharge samples. Two samples marginally exceeded the suspended solids consent limit (100 g/m^3). Suspended solids measured 110 g/m^3 at STW001089 on 5 April 2017 and 120 g/m^3 at STW001088 on 22 Jun 2017. These results are discussed further in Section 3.1.1.



Figure 4 Port Taranaki Ltd sampling sites (STW = stormwater sites, SEA = receiving seawater sites)

Table 1 Results of discharge and receiving seawater monitoring of Port Taranaki

| Date | Stormwater discharge | Receiving environment | Conductivity mS/m | Hydrocarbons g/m ³ | pH | Suspended Solids g/m ³ |
|---------------|----------------------|-----------------------|-------------------|-------------------------------|-----------|-----------------------------------|
| Consent Limit | | | - | 15 | 6.0 – 9.0 | 100 |
| 16-Nov-16 | STW001088 | | 25.8 | <0.5 | 7.0 | 10 |
| | STW001089 | | 146 | <0.5 | 7.5 | 22 |
| | | SEA902066 | 4280 | <0.5 | 8.1 | 21 |
| | | SEA902064 | 4290 | <0.5 | 8.2 | 18 |
| | STW001090 | | 27.7 | <0.5 | 6.8 | 31 |
| | STW001092 | | 28.4 | <0.5 | 7.0 | 3 |
| 5-Apr-17 | STW001088 | | 8.1 | <0.5 | 6.5 | 41 |
| | STW001089 | | 18.5 | <0.5 | 6.3 | 110 |
| | | SEA902066 | 4430 | <0.5 | 8.1 | 23 |
| | | SEA902064 | 4520 | <0.5 | 8.1 | 18 |
| | STW001090 | | 16.6 | <0.5 | 6.9 | 11 |
| | STW001092 | | 23.9 | <0.5 | 6.8 | 8 |
| 22-Jun-17 | STW001088 | | 18.1 | <0.5 | 6.7 | 120 |
| | STW001089 | | 18.0 | <0.5 | 6.5 | 98 |
| | | SEA902066 | 4610 | <0.5 | 8.1 | 17 |
| | | SEA902064 | 4610 | <0.5 | 8.1 | 46 |

| Date | Stormwater discharge | Receiving environment | Conductivity mS/m | Hydrocarbons g/m ³ | pH | Suspended Solids g/m ³ |
|------|----------------------|-----------------------|-------------------|-------------------------------|-----|-----------------------------------|
| | STW001090 | | 20.0 | <0.5 | 6.7 | 24 |
| | STW001092 | | 41.3 | <0.5 | 6.8 | 7 |

Bold: Exceed consent limit

Table 2 Results for New Zealand Oil Services treated stormwater discharge [IND002032]

| Date | Conductivity mS/m | Hydrocarbons g/m ³ | pH | Suspended Solids g/m ³ |
|----------------|-------------------|-------------------------------|-----------|-----------------------------------|
| Consent limits | - | 15 | 6.0 – 9.0 | - |
| 26-Aug-16 | 6.2 | <0.5 | 6.8 | 5 |
| 4-Apr-17 | 4.8 | <0.5 | 7.1 | 3 |

Hydrocarbons and pH complied with the consent limits in the New Zealand Oil Services Ltd stormwater samples.

Samples collected from the bund of the methanol tank complied with consent limits for hydrocarbons, pH and methanol.

2.2 Air

2.2.1 Inspections

No objectionable odours or other issues related to air quality were noted during the routine monitoring inspections of the Port Taranaki industries.

2.3 Investigations, interventions, and incidents

The monitoring programme was based on what was considered to be an appropriate level of monitoring, review of data, and liaison with the consent holders. During the year matters may arise which require additional activity by the Council, which may include provision of advice and information, or investigation of potential or actual causes 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 2016-2017 period, there were no incidents related to the stormwater and washwater resource consents held by Port Taranaki Ltd, Downer New Zealand Ltd, Technix Taranaki Terminal Ltd, Methanex New Zealand Ltd, or New Zealand Oil Services Ltd.

The two minor suspended solids beaches associated with Port Taranaki Ltd stormwater discharges were not recorded as an incident as exceedances were within or close to the margin of error for the analyses and recorded during worst case scenario conditions during heavy rainfall, first flush conditions when log loading operations were at peak.

There was an incident associated with activities undertaken by Methanex New Zealand Ltd at the Port Taranaki compound involving contamination of groundwater with methanol. In March 2017, a routine test of the groundwater revealed the presence of methanol (22%) in the pumping area groundwater bore. The Council were notified and Methanex New Zealand Ltd undertook an investigation that indicated Tank A and/or pipework were potentially the source of the methanol contamination. These locations were emptied and isolated and further investigation of the pipework and tank was conducted. The investigation continued past the 2016-2017 reporting period and identified two potential sources of methanol. A full site hydrological investigation is currently underway and will be reported on in the next annual report.

3 Discussion

3.1 Discussion of plant performance

3.1.1 Port Taranaki Ltd

3.1.1.1 Stormwater

Historically there have been issues with high levels of suspended solids generated from the log yards in stormwater samples collected from Port Taranaki. Since 2012, Port Taranaki Ltd has invested in a number of measures to improve stormwater quality on site. During the 2015-2016 monitoring year, suspended solids concentrations were well below the consent limit in all samples. During the 2016-2017 monitoring year, suspended solids in two samples marginally exceeded the consent limits during first flush, heavy rain conditions at times when log loading onsite was in full operation. It appears that investment in stormwater treatment and review of stormwater management procedures implemented by Port Taranaki Ltd have resulted in improved stormwater quality and environmental performance (Table 3).

Table 3 Port Taranaki stormwater quality and environmental performance

| Monitoring year | Number of suspended solids consent non-compliances | Stormwater related incidents | Stormwater related enforcement action | | Overall environmental rating |
|-----------------|--|------------------------------|---------------------------------------|--------------|------------------------------|
| | | | Abatement | Infringement | |
| 2016-2017 | 2* | 0 | 0 | 0 | Good |
| 2015-2016 | 0 | 0 | 0 | 0 | High |
| 2014-2015 | 2 | 2 | 0 | 0 | Good |
| 2013-2014 | 0 | 0 | 0 | 0 | Good |
| 2012-2013 | 2 | 1 | 0 | 1 | Improvement required |
| 2011-2012 | 4 | 1 | 0 | 1 | Improvement required |
| 2010-2011 | 2 | 1 | 1 | 0 | Improvement required |

*Marginal non-compliances under worst case scenario conditions

3.1.2 Downer New Zealand Ltd

The Downer New Zealand Ltd site was found to be satisfactory during the period under review. Two discharge samples were taken during the 2016-2017 monitoring period that complied with consent conditions.

3.1.3 Technix Taranaki Terminal Ltd

The Technix Taranaki Terminal Ltd site was found to be satisfactory during the period under review. No samples taken during the 2016-2017 monitoring period exceeded consent limits as a result of activities undertaken by Technix Taranaki Terminal Ltd.

3.1.4 Methanex New Zealand Ltd

A number of issues occurred at the Methanex New Zealand Ltd site during the period under review the details which are included in Appendix II. An incident involving contamination of groundwater with

methonal required significant follow up investigation which is still ongoing. The stormwater samples taken during the 2016-2017 monitoring period did not exceed consent limits.

3.1.5 New Zealand Oil Services Ltd

The New Zealand Oil Services Ltd site was found to be satisfactory during the period under review. No sample taken during the 2015-2016 monitoring period exceeded consent limits.

3.2 Environmental effects of exercise of consents

3.2.1 Port Taranaki Ltd

During the 2016-2017 year there were only two marginal breaches of suspended solids concentrations occurring during heavy rainfall. Such minor breaches of consent would not have resulted in an environmental impact. Investment in stormwater treatment and improved stormwater management procedures at Port Taranaki has resulted in improved stormwater quality over recent years.

During all inspections the discharges did not appear to be having any discernible effect on the receiving waters. No significant adverse environmental effects were observed as a result of resource consents 0197-2.1 and 0198-2 being exercised at the Port Taranaki Ltd site.

3.2.2 Downer New Zealand Ltd

There were no significant adverse environmental effects observed as a result of resource consents 4674-2 and 4715-3 being exercised at the Downer New Zealand Ltd site.

3.2.3 Technix Taranaki Terminal Ltd

There were no significant adverse environmental effects observed as a result of resource consent 4712-2 being exercised at the Technix Taranaki Terminal Ltd site.

3.2.4 Methanex New Zealand Ltd

There were no significant adverse environmental effects observed as a result of resource consent 0811-2 being exercised at the Methanex New Zealand Ltd site.

3.2.5 New Zealand Oil Services Ltd

There were no significant adverse environmental effects observed as a result of resource consent 4672-2 being exercised at the New Zealand Oil Services Ltd site.

3.3 Evaluation of performance

A summary of the companies' compliance record for the period under review is set out in Tables 4-10.

Table 4 Summary of performance for consent 0197-2.1 held by Port Taranaki Ltd

| Purpose: To discharge treated stormwater and washdown water into Tasman Sea from Port Taranaki | | |
|--|---|---|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Stormwater discharges are to adhere with consent conditions as well as stipulated documentation and plans | General monitoring | Yes |
| 2. Best practicable option to remove contaminants before washdown | Site inspections | Yes |
| 3. Limits on pH, hydrocarbons and suspended solids | Sampling | Two insignificant SS breaches with no environmental consequence |
| 4. After mixing, discharge not to effect receiving water | Site inspections and sampling | Yes |
| 5. Consent holder to prepare Stormwater Management Plan, review and update as stipulated | Comprehensive and updated Stormwater Management Plan issued February 2016 | Yes |
| 6. Adequate training provided to port staff | Inspections and company records | Yes |
| 7. Maintain contingency plan and update annually | Contingency plan issued February 2016 | Yes |
| Overall assessment of consent compliance and environmental performance in respect of this consent | | Good |
| Overall assessment of administrative performance in respect of this consent | | High |

Table 5 Summary of performance for consent 0198-2 held by Port Taranaki Ltd

| Purpose: To discharge washdown wastewater from Port Taranaki wharves, equipment and surrounding area into Tasman Sea | | |
|---|---|---|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Adopt best practicable option to remove contaminants | Site inspections | Yes |
| 2. Limits on pH, hydrocarbons and suspended solids | Sampling | Two insignificant SS breaches with no environmental consequence |
| 3. After mixing, discharge not to effect receiving water | Site inspections and sampling | Yes |

| Purpose: To discharge washdown wastewater from Port Taranaki wharves, equipment and surrounding area into Tasman Sea | | |
|---|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 4. Consent holder to prepare Stormwater Management Plan, review and update 2 yearly | Comprehensive and updated Stormwater Management Plan issued February 2016 | Yes |
| 5. Adequate training provided to port staff | Inspections | Yes |
| 6. Maintain contingency plan and update annually | Contingency plan issued February 2016 | Yes |
| 7. Option for Council to review consent conditions | Next option for review June 2020 | N/A |
| Overall assessment of consent compliance and environmental performance in respect of this consent | | Good |
| Overall assessment of administrative performance in respect of this consent | | High |

N/A - Not applicable

Table 6 Summary of performance for consent 0811-2 held by Methanex New Zealand Ltd

| Purpose: To discharge stormwater and associated contaminants into the Tasman Sea at Port Taranaki from a methanol storage tank bunded area | | |
|---|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Adopt best practicable option | Inspections of site | Yes |
| 2. Consent to be exercised in accordance with documentation submitted | Liaison with consent holder | Yes |
| 3. Concentration limits | Sampling | Yes |
| 4. Mixing zone effects | Inspections of site and sampling | Yes |
| 5. Maintenance of a contingency plan | Plan issued January 2016 | Yes |
| 6. Review provision | Next option for review 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 |

N/A - Not applicable

Table 7 Summary of performance for consent 4672-2 held by New Zealand Oil Services

| Purpose: To discharge treated stormwater and operational water from an oil terminal site into the Port Taranaki stormwater system and into the Tasman Sea | | |
|--|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Adopt best practicable option | Inspections and sampling | Yes |
| 2. Discharge not to exceed 12 litres/second | Inspections and company records | Yes |
| 3. Concentration limits | Sampling and company records | Yes |
| 4. Mixing zone | Inspections of site and sampling | Yes |
| 5. Maintenance of a stormwater management plan | Plan issued March 2015 | Yes |
| 6. Maintenance of a contingency plan | Plan issued March 2015 | Yes |
| 7. Provide Council with any physicochemical analysis carried out | Results received | Yes |
| 8. Ensure interceptor system is cleaned out regularly | Inspections of site | Yes |
| 9. Consent lapse | Consent exercised - not applicable | N/A |
| 10. Review provision | Next option for review 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 |

N/A - Not applicable

Table 8 Summary of performance for consent 4674-2 held by Downer New Zealand Ltd

| Purpose: To discharge stormwater from a bitumen emulsion manufacture, storage and load out site into the Tasman Sea | | |
|--|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Best practicable option to prevent or minimise adverse environmental effects | Site inspections | Yes |
| 2. Catchment not to exceed 8,000 m ³ | Site inspections | Yes |
| 3. Stormwater to be directed for treatment | Site inspections | Yes |
| 4. Hazardous substance storage areas to be bunded | Site inspections | Yes |
| 5. Limits on pH, hydrocarbons and suspended solids | Sampling | Yes |

| Purpose: To discharge stormwater from a bitumen emulsion manufacture, storage and load out site into the Tasman Sea | | |
|--|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 6. Maintenance of Contingency Plan | Plan issued June 2016 | Yes |
| 7. Maintenance of Stormwater Management Plan | Plan issued June 2016 | Yes |
| 8. Notification re changes to processes or operations | Notification received, site inspections | Yes |
| 9. Option for the Council to review consent conditions | Next optional review 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 |

N/A = not applicable

Table 9 Summary of performance for consent 4712-2 held by Technix Taranaki Terminal Ltd

| Purpose: To discharge stormwater from a bitumen emulsion manufacture, storage and load out site into the Tasman Sea | | |
|--|---|-----------------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Best practicable option to prevent or minimise adverse environmental effects | Site inspections | Yes |
| 2. Catchment not to exceed 8,000 m ³ | Site inspections | Yes |
| 3. Stormwater to be directed for treatment | Site inspections | Yes |
| 4. Hazardous substance storage areas to be bunded | Site inspections | Yes |
| 5. Limits on pH, SS, HC | Samples collected | Yes |
| 6. Maintenance of Contingency Plan | Plan received and approved August 2013 | Yes |
| 7. Maintenance of Stormwater Management Plan | Details included in Contingency Plan | Yes |
| 8. Notification re changes to processes or operations | No notifications during period under review | Yes |
| 9. Option for the Council to review consent conditions | Next optional review 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 |

Table 10 Summary of performance for consent 4715-3 held by Downer New Zealand Ltd

| Purpose: To discharge emissions into air from bitumen operations | | |
|---|--|----------------------|
| Condition requirement | Means of monitoring during period under review | Compliance achieved? |
| 1. Adopt best practicable option to prevent or minimise adverse effects | Site inspections | Yes |
| 2. Annual maintenance of burner | Maintenance undertaken | Yes |
| 3. Notify Council prior to making changes to processes or operations | Inspections, no notifications received | N/A |
| 4. Particulate material not to exceed 125 mg/m ³ of air | Not monitored during period under review | N/A |
| 5. Control emissions to air from the site | Not monitored during period under review | N/A |
| 6. Maintenance/operation of equipment | Site inspections | Yes |
| 7. Discharge not to give rise to odour at or beyond the boundary | Site inspections | Yes |
| 8. Review provision | Next optional review scheduled 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 |

N/A = not applicable

In relation to their resource consents (as defined in section 1.1.4), Port Taranaki Ltd's environmental performance received a 'good' as a result of two minor suspended solid breaches that will have had no environmental consequences taking into consideration the heavy rainfall at the time. Their administration performance received a 'high' rating for the 2016-2017 period.

During the 2015-2016 period, Downer New Zealand Ltd, Technix Taranaki Terminal Ltd, Methanex New Zealand Ltd and New Zealand Oil Services Ltd all demonstrated a high level of environmental and administrative performance and compliance with the resource consents. There was an incident involving contamination of groundwater with methanol at the Methanex New Zealand Ltd site, which has been reported on separately from the stormwater consent 0811-2.

3.4 Recommendations from the 2015-2016 Annual Report

In the 2015-2016 Annual Report it was recommended;

1. THAT monitoring of stormwater discharges from Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd in the 2016-2017 year continues at the same level as in 2015-2016.
2. THAT monitoring of discharges from New Zealand Oil Services Ltd and Methanex New Zealand Ltd in the 2016-2017 year continues at the same level as in 2015-2016.
3. THAT two air quality inspections are conducted during the offloading of palm kernel, preferably occurring during dry weather.

Recommendations 1 and 2 were carried out in the 2016-2017 period.

3.5 Alterations to monitoring programmes for 2017-2018

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

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

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

It is proposed that for the 2017-2018 monitoring period that no alterations to the monitoring programme is required.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site(s) 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 2017-2018.

3.6 Exercise of optional review of consent

No resource consents encompassed in this monitoring programme have an option for review in June 2017. The next opportunity for review is June 2020.

4 Recommendations

1. THAT in the first instance, monitoring of stormwater discharges from Port Taranaki Ltd, Downer New Zealand Ltd and Technix Taranaki Terminal Ltd in the 2017-2018 year continues at the same level as in 2016-2017.
2. THAT should there be issues with environmental or administrative performance in 2017-2018, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
3. THAT monitoring of discharges from New Zealand Oil Services Ltd and Methanex New Zealand Ltd in the 2017-2018 year continues at the same level as in 2016-2017.
4. THAT two air quality inspections are conducted during the offloading of palm kernel, preferably occurring during dry weather.

Glossary of common terms and abbreviations

The following abbreviations and terms are used within this report:

| | |
|------------------|---|
| Bund | A wall around a tank to contain its contents in the case of a leak. |
| Condy | Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 20°C and expressed in mS/m. |
| g/m ³ | Grams per cubic meter, 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. |
| L/s | Litres per second |
| mS/m | Millisiemens per meter. |
| Mixing zone | The zone below a discharge point where the discharge is not fully mixed with the receiving environment. |
| 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 characterize the state of an environment. |
| PM ₁₀ | Relatively fine airborne particles (less than 10 micrometre diameter). |
| Resource consent | Refer to Section 87 of the RMA. Resource consents include land use consents (refer Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits (Section 14) and discharge permits (Section 15). |
| RMA | Resource Management Act 1991 and subsequent amendments. |
| SS | Suspended solids. |
| UIR | Unauthorised Incident Register - an event recorded by the Council on the basis that it had potential or actual environmental consequences that may represent a breach of a consent or provision in a Regional Plan. |

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

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Zealand Limited and New Zealand Oil Services Limited Monitoring Programme Annual Report
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- Port Taranaki Limited Annual Report 2012.
- Port Taranaki Industries Monitoring Programme Annual Report 2011-2012, Technical Report 2012-28.
- Port Taranaki Industries Monitoring Programme Biennial Report 2012-2014, Technical Report 2014-27.
- Port Taranaki Industries Monitoring Programme Annual Report 2014-2015, Technical Report 2015-78.
- Port Taranaki Industries Monitoring Programme Annual Report 2015-2016, Technical Report 2016-41.

Appendix I

Resource consents held by relevant companies

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

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

Name of
Consent Holder: Port Taranaki Limited
PO Box 348
New Plymouth 4340

Decision Date
(Change): 22 December 2015

Commencement Date
(Change): 22 December 2015 (Granted Date: 13 October 1999)

Conditions of Consent

Consent Granted: To discharge treated stormwater and washdown water from the Port Taranaki facility and environs into the Tasman Sea

Expiry Date: 1 June 2020

Site Location: Port Taranaki, New Plymouth

Legal Description: Lot 1 DP 17775 Lot 3 DP 460681 Lot 1 DP 17440 Lot 1 DP 7383 Lot 1 DP 420841 Lot 2 DP 420841 Lot 2 DP 17441
(Discharge source & site)

Grid Reference (NZTM) 1689650E-5676520N

Catchment: Tasman Sea

*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 holders' expense.
- c. The consent holder shall pay to the Taranaki Regional Council all required administration charges fixed by the Taranaki Regional 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 stormwater discharge from approximately 53.78 ha of land belonging to Port Taranaki Limited, in accordance with following documentation and plans:
 - The Assessment of Environmental Effects – Port Taranaki Stormwater Consent Variation document prepared by Opus International Consultants Limited, Referenced 5–N8170.00 and dated 19th November 2015;
 - Port Taranaki Stormwater Management Plan document prepared by Port Taranaki Limited and dated 17 November 2015;
 - Port Taranaki Stormwater Management Plan, prepared by Port Taranaki Limited, Sheet Titled: *Port Land Use Plan*, Referenced 2774, Sheet P02, Revision A and dated November 2015; and
 - Port Taranaki Stormwater Management Plan, Port Taranaki Limited, Sheet Titled: *Piped Discharged into Harbour As At May 2015*, Referenced 2774, Sheet P01, Revision G and dated 05/2015.

In the case of any contradiction between the documentation and the conditions of this consent, the conditions of this consent shall prevail.

2. That the best practicable option, as defined in the Resource Management Act 1991, shall be adopted by the consent holder to ensure that any contaminants on the wharf surface are removed as far as reasonably practicable, before washdown on the wharf commences, including the following measures:
 - (a) the use of front end loaders, shovels and brooms as appropriate; and
 - (b) the use of suction sweepers on wharf facilities.

Consent 0197-2.1

3. That the discharge shall not exceed the following limits at all times:

| 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 (as determined by infrared spectroscopic technique) |

This condition shall apply prior to the entry of the discharge into the receiving water at a designated sampling point(s) approved by the Chief Executive, Taranaki Regional Council.

4. That after allowing for reasonable mixing, 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 colour or visual clarity;
 - (c) any emission of objectionable odour;
 - (d) significant adverse effects on aquatic life.
5. That:
- (a) the consent holder shall prepare a Stormwater and Washdown Water Management Plan addressing proposed operation, management and monitoring at the port for the purpose of demonstrating among other things the means by which compliance with the conditions set in this consent shall be achieved, such a Management Plan is to be prepared to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council within a month of the granting of this consent;
 - (b) the Management Plan shall be reviewed and updated as often as the land-uses change, in consultation with the Chief Executive, Taranaki Regional Council, and the updated plan provided to the Council;
 - (c) the consent holder shall adhere to and comply with the procedures, requirements, obligations and all other matters specified in the Management Plan; and
 - (d) in case of any contradiction between the Management Plan and the conditions of this resource consent, the conditions of this resource consent shall prevail.
6. That the consent holder shall at all times ensure that port staff are adequately and appropriately trained to ensure that the conditions of this consent can be met.

Consent 0197-2.1

7. That the consent holder shall maintain a contingency plan, outlining measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not licensed by this consent, and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge. This contingency plan shall be updated on an annual basis.

Signed at Stratford on 22 December 2015

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Port Taranaki Limited
P O Box 348
NEW PLYMOUTH

Consent Granted
Date: 13 October 1999

Conditions of Consent

Consent Granted: To discharge up to 1.264 cubic metres/day of washdown wastewater from wharves, equipment and surrounding area into the Tasman Sea [P19:989-382 to 011-377 to 013-383 to 001-391 to 989-382] at or about GR: P19:997-382

Expiry Date: 1 June 2020

Review Date(s): June 2001, June 2003, June 2009, June 2015

Site Location: Wharf Area, Breakwater Road, Port Taranaki, New Plymouth

Legal Description: Various

Catchment: Tasman Sea

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. That the best practicable option, as defined in the Resource Management Act 1991, shall be adopted by the consent holder to ensure that any contaminants on the wharf surface are removed as far as reasonably practicable, before washdown on the wharf commences, including the following measures:
 - a) the use of front end loaders, shovels and brooms as appropriate; and
 - b) the use of suction sweepers on wharf facilities.

2. That the discharge shall not exceed the following limits at all times:

| <u>Component</u> | <u>Concentration</u> |
|--------------------------------|----------------------|
| pH [range] | 6 – 9 |
| Total recoverable hydrocarbons | 15 gm ⁻³ |
| Suspended solids | 100 gm ⁻³ |

This condition shall apply prior to the entry of the discharge into the receiving water at a designated sampling point(s) approved by the Chief Executive, Taranaki Regional Council.

3. That after allowing for reasonable mixing, 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 colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) significant adverse effects on aquatic life.
4. That:
 - a) the consent holder shall prepare a Washdown Wastewater Management Plan addressing proposed operation, management and monitoring at the port for the purpose of demonstrating among other things the means by which compliance with the conditions set in this consent shall be achieved, such a Management Plan is to be

Consent 0198-2

prepared to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council within five months of the granting of this consent;

- b) the Management Plan shall be reviewed and updated at not greater than 2 yearly intervals, in consultation with the Chief Executive, Taranaki Regional Council;
 - c) the Management Plan shall be reviewed and updated if coal stockpiles greater than 10,000 tonnes are to be made, and the Plan prepared as per condition 4(a) prior to the stockpiling;
 - d) the consent holder shall adhere to and comply with the procedures, requirements, obligations and all other matters specified in the Management Plan; and
 - e) in case of any contradiction between the Management Plan and the conditions of this resource consent, the conditions of this resource consent shall prevail.
5. That the consent holder shall at all times ensure that port staff are adequately and appropriately trained to ensure that the conditions of this consent can be met.
6. That the consent holder shall maintain a contingency plan, outlining measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not licensed by this consent, and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge. This contingency plan shall be updated on an annual basis.
7. That the Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2001 and/or June 2003 and/or June 2009 and/or June 2015, for the purpose of ensuring that the conditions are adequate to deal with any significant adverse effects on the environment arising from the exercise of this consent, which was either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 11 October 2005

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Methanex Motunui Limited
Private Bag 2011
NEW PLYMOUTH

Consent Granted
Date: 6 May 2008

Conditions of Consent

Consent Granted: To discharge stormwater and associated contaminants into the Tasman Sea at Port Taranaki from a methanol storage tank bunded area at or about 2599253E-6238317N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Port Taranaki

Legal Description: Lot 1 DP 14572

Catchment: Tasman Sea

Tributary: Hongihongi

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 consent.
2. The exercise of this consent shall be undertaken substantially in accordance with the documentation submitted in support of application 4965. In the case of any contradiction between the documentation submitted in support of application 4965 and the conditions of this consent, the conditions of this consent shall prevail.
3. Concentrations of the following components shall not be exceeded in the discharge:

| Component | Concentration |
|--------------------------------|----------------------|
| pH (range) | 6.0 – 9.0 |
| methanol | 20 gm ⁻³ |
| total recoverable hydrocarbons | 15 gm ⁻³ |

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

4. After allowing for a mixing zone of 50 metres from the point of discharge, the discharge shall not give rise to any of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) any significant adverse effects on aquatic life.

Consent 0811-2

5. The consent holder shall prepare and maintain, to the satisfaction of the Chief Executive, Taranaki Regional Council, a contingency plan, outlining measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants, and measures to avoid, remedy or mitigate the environment effects of such a spillage or discharge.
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 2014 and/or June 2020, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 6 May 2008

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: New Zealand Oil Services Limited
 P O Box 180
 NEW PLYMOUTH

Consent Granted
Date: 28 May 2008

Conditions of Consent

Consent Granted: To discharge treated stormwater and operational water
 from an oil terminal site into the Port Taranaki stormwater
 system and into the Tasman Sea at or about (NZTM)
 1689216E-5676143N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: 30 Centennial Drive, New Plymouth

Legal Description: Lot 10 DP 8465, Lot 1 DP10140, Lots 1 & 2 DP 7078 Blk
 IV Paritutu SD

Catchment: Tasman Sea

Consent 4672-2

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 consent.
2. The rate of discharge authorised by this consent shall not exceed 12 litres per second.
3. Concentrations of the following components shall not be exceeded in the discharge:

| Component | Concentration |
|--------------------------------|----------------------|
| pH (range) | 6.0 - 9.0 |
| total recoverable hydrocarbons | 15 gm ⁻³ |

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

4. After allowing for a mixing zone of 50 metres from the point of discharge, the discharge shall not give rise to any of the following effects in the receiving water:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) any significant adverse effects on aquatic life.
5. Within three months of the commencement of this consent, the consent holder shall prepare and maintain a stormwater management plan to the satisfaction of the Chief Executive, Taranaki Regional Council. This plan shall document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater.

Consent 4672-2

6. Within six months of the commencement of this consent, the consent holder shall prepare and subsequently maintain a contingency plan. The plan shall detail to the Chief Executive of Taranaki Regional Council:
 - i. measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants; and
 - ii. measures to avoid, remedy or mitigate the environment effects of such a spillage or discharge.
7. The consent holder shall provide to the Chief Executive, Taranaki Regional Council, the results of any physicochemical analysis carried out on behalf of the consent holder on the treated stormwater and operational water which is discharged to the Tasman Sea.
8. The consent holder shall ensure that the Sepa interceptor system is regularly cleaned, maintained and repaired [as required], to the satisfaction of the Chief Executive of Taranaki Regional Council.
9. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
10. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2014 and/or June 2020, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 28 May 2008

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Downer New Zealand Limited
P O Box 2344
TAURANGA 3140

Decision Date: 12 November 2008

Commencement
Date: 12 November 2008

Conditions of Consent

Consent Granted: To discharge stormwater from a bitumen industry emulsion manufacture, storage and load out site, into the existing Port Taranaki stormwater system and into the Tasman Sea at or about (NZTM) 1689316E-5676302N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Bridger Lane, Port Taranaki

Legal Description: Lot 1 DP 17440

Catchment: Tasman Sea

Tributary: Hongihongi

*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. Notwithstanding any other condition of this consent, the consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 8000 m².
3. All stormwater shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this permit.
4. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not directly to the stormwater catchment.
5. Constituents of the discharge 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 [as determined by infrared spectroscopic technique] |

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

Consent 4674-2

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

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

Transferred at Stratford on 10 August 2011

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Technix Taranaki Terminal Limited
Private Bag 2222
NEW PLYMOUTH 4342

Decision Date: 12 November 2008

Commencement
Date: 12 November 2008

Conditions of Consent

Consent Granted: To discharge stormwater from a bitumen industry emulsion
manufacture, storage and load out site, into the existing
Port Taranaki stormwater system and into the Tasman Sea
at or about (NZTM) 1689316E-5676302N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020 and/or within 3 months of receiving
a notification under special condition 8

Site Location: Bridger Lane, Port Taranaki

Legal Description: Lot 1 DP 17440

Catchment: Tasman Sea

Tributary: Hongihongi

*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. Notwithstanding any other condition of this consent, the consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 8000 m².
3. All stormwater shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this permit.
4. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not directly to the stormwater catchment.
5. Constituents of the discharge 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 [as determined by infrared spectroscopic technique] |

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

Consent 4712-2

6. 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.
7. The consent holder shall maintain a stormwater management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
 - a) the loading and unloading of materials;
 - b) maintenance of conveyance systems;
 - c) general housekeeping; and
 - d) management of the interceptor system.
8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
 - a) during the month of June 2014 and/or June 2020; and/or
 - b) within 3 months of receiving a notification under special condition 8 above;for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 18 October 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: Downer New Zealand Limited
P O Box 2344
TAURANGA 3140

Decision Date: 29 May 2008

Commencement
Date: 29 May 2008

Conditions of Consent

Consent Granted: To discharge emissions into the air from bitumen blowing operations and associated processes at or about (NZTM) 1689316E-5676302N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Bridger Lane, Port Taranaki

Legal Description: Lot 1 DP 17440

*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. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The burner shall be maintained to the satisfaction of the Chief Executive, Taranaki Regional Council, by a trained service person at least every twelve months to optimise combustion efficiency and to reduce noxious emissions to air.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
4. The discharge of particulate material from any vent, duct or chimney, shall not exceed 125 milligrams per cubic metre of air corrected to 0 degrees Celsius, 1 atmosphere pressure, and a dry gas basis.
5. The consent holder shall control all emissions to the atmosphere from the site so that the maximum ground level concentration for any particular contaminant arising from the exercise of this consent measured at or beyond the boundary of the site shall not exceed:
 - a) 1/30th of the relevant Occupational Threshold Value Time Weighted Average as defined by the Department of Labour Workplace Exposure Standards and Biological Exposure Indices for New Zealand; or
 - b) by more than the Short Term Exposure Limit as defined in the Department of Labour Workplace Exposure Standards and Biological Exposure Indices for New Zealand;
 - c) or if no Short Term Exposure Limit is set, more than three times the Time Weighted Average at any time.

Consent 4715-3

6. That all equipment used to avoid, remedy, or mitigate any effect on the environment from the discharge of emissions into the air shall be maintained in optimum condition and shall be operated within optimum design parameters at all times the plant is in operation.
7. That the discharges authorised by this consent shall not give rise to any odour at or beyond the site boundary which, in the opinion of an enforcement officer of the Taranaki Regional Council, is offensive of obnoxious or objectionable.
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.

Transferred at Stratford on 10 August 2011

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Appendix II

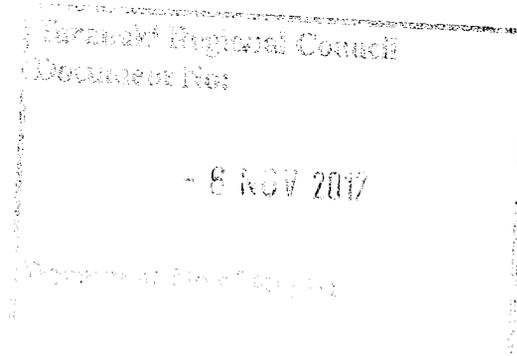
Consent Compliance Report for Methanex NZ Ltd Port Methanol Storage Facility



Private Bag 2011
New Plymouth 4342

T: (06) 754 9700
F: (06) 754 9701

A RESPONSIBLE GAME COMPANY



October 30, 2017

Taranaki Regional Council
Private Bag 713
Stratford

Attention: Emily Roberts

CONSENT COMPLIANCE REPORT FOR METHANEX NZ LTD. PORT METHANOL STORAGE FACILITY

2016/2017 REPORTING PERIOD

Introduction

Methanex New Zealand Limited (Methanex) has been requested to supply the Taranaki Regional Council a summary report outlining activities relating to Consent 0811-2 between 1st July 2016 and 30th June 2017 (the "Reporting Period"). The information is to be used in the Port Taranaki Industries Consent Compliance Monitoring Report 2016-2017.

Consent 0811-2 is granted for the discharge of stormwater and associated contaminants into the Tasman Sea at Port Taranaki from Methanex's methanol storage tank bunded area at Port Taranaki (the "site")

Methanol was stored at the site for all of this reporting period.

Summary Report

[A] Compliance with condition 3, Consent 0811-2

Condition 3 states:

- Concentrations of the following components shall not be exceeded in the discharge:

| Component | Concentration |
|--------------------------------|---------------|
| pH (range) | 6.0 – 9.0 |
| Methanol | 20gm-3 |
| Total Recoverable Hydrocarbons | 15gm-3 |

- This condition shall apply prior to the entry of the stormwater into the coastal marine area, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

Over the Reporting Period, 48 discharges took place from the site with all results being within the discharge limits.

During the earthworks for the Bund Works described in section 'B' below, additional monitoring of stormwater discharges was carried out to verify that Total Suspended Solids in the discharges were below Regional Plan limits, which was the case for all discharges.

[B] Bund Works

During the Reporting Period, Methanex undertook significant work on both tank bunds to which the above consent applies. This work was in accordance with HSNO compliance plans which were approved by Worksafe New Zealand. This work was to:

- Install liners to comply with secondary containment permeability rate requirements
- Seal between the liners and the two tanks
- Seal between the liners and the compound components and penetrations
- Install open/closed indicators and lock-outs on all drainage valves

This work was completed on both the compounds during the Reporting Period. A HSNO Location Test Certificate was received for the facility in October 2017 verifying the successful completion of the work.

[C] Stormwater Discharge Pipe

During the Reporting Period, sand ingress into the Methanex stormwater discharge pipe was experienced to a degree that the outlet was unusable for discharges. In conjunction with this, the stormwater pipework in the bunds was checked and upgraded. An alternative discharge method was put in place that pumped the discharge to the Port Taranaki Ltd stormwater system until Methanex pipework was checked and cleared. The TRC were notified of this situation and approval was gained from Port Taranaki Ltd for the use of their stormwater system. From January 2017, the discharges from the site were made via the Methanex discharge pipe.

[D] Groundwater Monitoring

Methanex pro-actively carries out regular groundwater sampling and testing in its Port Taranaki compound. In March 2017, a routine test of the groundwater revealed the presence of methanol in the pumping area groundwater bore.

The TRC were informed of the situation and an investigation was immediately undertaken. Early results indicated that the 'A' tank and/or pipework could potentially be the source of the methanol. The 'A' tank and pipework were emptied and isolated and a further

investigation was undertaken. This involved digging up underground pipework and a full inspection of the tank. This investigation has continued past the Reporting Period and, as of October 2017, two potential sources of the methanol have been identified. Methanex kept the TRC fully informed during this process as new information became available.

The level of methanol in the groundwater has reduced since the initial sampling. A full site hydrogeology investigation is underway to provide more detailed information from which an enhanced remediation plan will be formulated.

Report Prepared by:



Gary Rielly
Sustainability and Quality Leader

