



# Channel

Infrastructure NZ

## Channel Terminal Services **Safety Case**

A summary of Channel's subsidiary, Channel Terminal Services, the operator of the company's Marsden Point site Safety Case, as well as advice to the community on what to do in the event of an Emergency on our site.

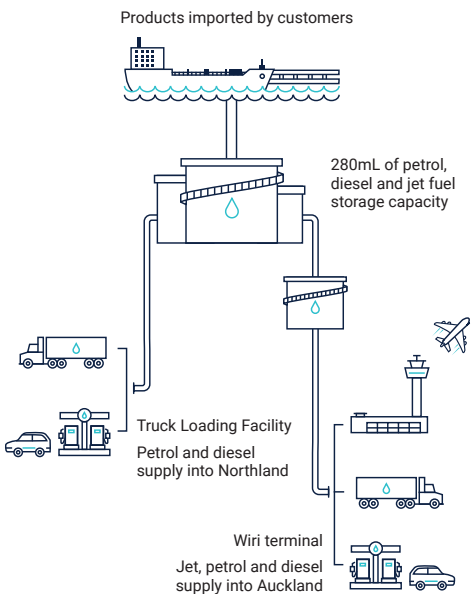


### Major Hazard Facility Regulation

The Major Hazard Facilities Regulation came into being in 2016 as part of the 2015 Health and Safety at Work Act.

It sits under the Act and is overseen by a specialist group within WorkSafe New Zealand. It was put in place to provide greater assurance and oversight of those manufacturing and storage facilities where certain specified hazardous substances may be present above a certain threshold.

### Channel Terminal Services



### What is a Safety Case?

The 'Safety Case' is a written demonstration of Channel Terminal Services' ability to operate our Terminal safely, and that as a business, we have the means to control the hazards that could potentially lead to 'Major Hazard Incidents' occurring on site.

**The document itself comprises three major sections:**

- **SAFETY ASSESSMENT**
- **SAFETY MANAGEMENT SYSTEM**
- **EMERGENCY PLAN**

### What is stored at Marsden Point?

Petrol (Premium & Regular)

Jet A-1

Diesel

Very Low Sulphur Fuel Oil (VLSFO)  
- A heavy fuel used as a ships fuel

Hydrocarbon Slops  
- Mixture of products such as Petrol and Diesel

General Hazardous Substance  
- Small amounts of other hazardous substance (e.g. LPG) used on site and in general maintenance activities

### SAFETY ASSESSMENT

As changes are made at the Marsden Point site it is normal to undertake risk assessments and safety studies to ensure that all risks associated with the new business structure have been identified and are appropriately managed.

These studies form part of the formal Safety Assessment for the site. The purpose of the Safety Assessment is to ensure that there is a comprehensive and systematic approach to the identification and assessment of hazards which could result in a Major Incident.

As a business, we ensure that these hazards are either eliminated, or the remaining risks are minimised so far as is reasonably practicable.

**A safety assessment is compromised of the following steps:**

#### Identify

- Detailed and systematic review process to identify the things that could go wrong (hazards).

#### Assess

- Can the hazard be eliminated?
- What are the potential consequences from the hazards identified? What is the likelihood of this occurring?

#### Controls

- What Controls are in place to prevent or reduce the risk of the identified hazard (and subsequent consequence) occurring?
- What Controls are in place to minimize consequences, and are these adequate?



## Major Incident Control Measures

Control measures are the equipment, systems and procedures that reduce the risk of a Major Incident occurring at Marsden Point and limit the consequences if it does.

All controls are reviewed, tested and maintained regularly through Channel's Safety Management System.

### Prevention Controls

*These are designed to stop the hazardous event occurring. Examples include:*

- Alarms and Trips;
- Pressure relief devices.

### Recovery Controls

*These are in place to limit the impact of a major incident should it occur. Examples include:*

- Flammable Gas Detection;
- Firefighting Systems.

## SAFETY MANAGEMENT SYSTEM

We take the safety of our team, neighbours and the general public extremely seriously. We work hard to ensure that everyone who comes onto our site for any reason goes home safely every day.

To help achieve this we have a comprehensive and integrated safety management system. This system is based on proven standards from NZ and overseas and ensures that equipment on site is designed, constructed, operated and maintained in a safe manner.

Examples of what forms the Safety Management System include: comprehensive permit to work systems; maintenance and isolation procedures; operating procedures; training and competency requirements; management of change, emergency planning and response.

The effectiveness of the key elements of the safety management systems are routinely monitored and reported to our senior management team and to our Board of Directors.

### Potential Major Incidents

Most accidental releases of hydrocarbons do not result in a fire or explosion as they are easily and quickly dealt with on site to prevent harm or environmental damage.

However, due to the flammable nature of the products stored on site, fires or an explosion (which is extremely unlikely) have been considered.

### Offsite Impact

Modelling undertaken shows that it is extremely unlikely for a Major Incident on site to have a direct impact beyond the boundary.

Our modelling shows that no residential area would be directly impacted by an incident at Marsden Point.

*If an incident occurs on site it may have the following consequences:*

- potential visible smoke;
- potential for soot to be carried with wind
- potential disruption locally due to emergency services activity, road closure, evacuation.

## EMERGENCY RESPONSE

Channel's emergency plan is based on the site having the ability to Respond and Recover from a major incident. Channel Operators are trained and competent in the use of this equipment and in the appropriate defensive strategies to adopt until the external agencies arrive.

Following the incident CTS has the appropriate equipment and trained personnel to recover and minimise further harm to people and the surrounding environment.

### General advice for local community

*In the unlikely event of an incident:*

- remain indoors and close windows and doors
- search social media and local radio for information
- please do not call the site as we will need to keep our lines clear to support the response efforts
- stay away from Marsden Point and surrounding beaches
- adhere to road closures/diversions
- self-evacuate out of the area if you feel more comfortable
- seek medical attention if you feel impacted.

In the extremely unlikely event that you need to evacuate your home this will be managed by NZ Police and Northland Civil Defence Emergency Management.



### Site Siren

The site siren (which is normally tested weekly) is only intended to alert on site personnel to a potential problem on site. In the unlikely event that an incident has impact beyond the site boundary the neighboring facilities will be notified by phone.

*Information will also be made available to the public on the Channel Infrastructure Facebook page.*

## Further Information

This information brochure provides a summary of the Safety Case for Channel Terminal Services Marsden Point facility. Further details, including a copy of this summary, can be obtained by contacting:

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*Channel Terminal Services (a wholly owned subsidiary of Channel Infrastructure) operates the Marsden Point Import Terminal, NZ's largest fuel terminal. Through this import terminal bp, Mobil and Z Energy import Petrol and Diesel for supply to Auckland and the Northland region, and Jet fuel for supply to Auckland. Our customer source these fuels from overseas Refineries and ship it to site where it is safely stored until being distributed via pipeline to Wiri in Auckland and to a independent truck loading facility located adjacent to the site.*