

Lessons learned from one of New Zealand's most challenging civil engineering projects: rebuilding the earthquake damaged pipes, roads, bridges and retaining walls in the city of Christchurch 2011 - 2016.

# Critical Risk 2 Health and Safety Toolbox – mobile plant and people interface

**Story:** Health and Safety

**Theme:** Programme Management

A document which outlines how to keep site staff and public safe around mobile plant, created to discuss with site staff at on-site "toolbox talks".

This document has been provided as an example of a tool that might be useful for other organisations undertaking complex disaster recovery or infrastructure rebuild programmes.

For more information about this document, visit www.scirtlearninglegacy.org.nz















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## **Health and Safety Toolbox 2**

### Critical risk- Mobile Plant and People Interface

Plant is a major cause of workplace death and injury in New Zealand workplaces.

Mobile Plant are our <u>number 2 critical risk</u> because of the potential consequences:

- ⇒ Being <u>crushed</u> by mobile plant (Reversing, pinned against...)
- ⇒ Sustaining <u>fractures from falls</u> while assessing, operating or maintaining plant
- ⇒ Fractures when <u>hit</u> by moving plant (swing zone, pinned against...)

How can we prevent this?

- ⇒ Check any <u>new plant</u> arriving on site is <u>fit for use</u>
- ⇒ Complete your **pre start check on all plant daily**, and fix any problems
- ⇒ Agree as a team how you will **communicate** instructions with the operator of any plant
- ⇒ Only operate plant is you have been authorised and have the **license** and the **competency**
- ⇒ Operators must be **OCA competent** (see Roger Tuffery FCC for more information)
- ⇒ Create a <u>Plant Movement Plan</u> on site: drive through preferred, identify hazards like overheads, clearly identify the exclusion zone with signage, cones, tiger tails etc...
- ⇒ Manage on site <u>loading and unloading</u>: know who is coming, designate a "spotter", create a waiting zone
- ⇒ Trucks: check loads are secure
- ⇒ Safe use of **Excavators**: use the safety pin and quick hitch's, remove bucket when lifting

Operator injuries: a trained <u>mobile plant spotter</u> is used <u>for restricted visibility</u> (blind spots, "shadows", reversing...)

# **Operating Mobile Plant During Autumn and Winter Months**

### **Before moving make sure:**

- All windows/windscreen to be cleaned and cleared.
- All front/rear lights are operational and visual
- · All mirrors clear
- All reversing aids are

#### Sun Strike:

- Sun Strike, make sure the windscreen is clear
- Make sure sun (safety) glasses are available
- Make sure the sun visor is operational
- Stop, if sun strike hits the front screen or mirrors affecting your view







### **Stay out of blind spots and shadows**









