

Tokomaru Bay Legacy Landfill

Remediation



Te Kaunihera o Te Tairāwhiti
GISBORNE
DISTRICT COUNCIL



Agenda

- Background
- Ministry for the Environment Funding
- Legacy landfill Remediation and Transfer Station Relocation
- Offsite Encapsulated Cell?
- Resource Consent Application
- Questions and Answers Session

Overview and Background



- The landfill operated from 1967 through late 1990s.
- Waste was deposited directly onto land and within the awa channel.
- Red dashes illustrate the extent of buried waste materials.

Overview and Background

- The edge of the landfill borders the current flowpath of the awa.
- Flood events continue to erode the edge of the landfill.
- Waste materials are exposed, and at times have been deposited in the awa and beach.
- Rock revetment was installed on the western toe of the landfill in 2021 is failing.



Ministry for the Environment Funding

MfE funding of \$4.95M secured.

A staged approach to the planning and completion of the remedial works must be undertaken to satisfy funding requirements.

1. Additional investigation.
2. Assessment of remedial options & Remedial options assessment.
- 3. Remedial action plan.**
- 4. Resource consent.**
5. Remediation Works and Reporting.

Landfill Remediation

Project Goal

Prevent ongoing wash out of waste materials from the legacy landfill to the awa and beach.

Option 4 Preferred

Following Last Community Meeting

Full removal of the waste materials from the site.

Excavation, transport and disposal of the waste to a landfill outside of Gisborne.

River allowed to repair naturally.

Remedial Action Plan

A simple and clear document for a Contractor(s) to use.

Outlines steps, requirements, and procedures to protect their staff, the wider community, and the environment.

Developed in accordance with:

- Health and Safety at Work (Asbestos) Regulations 2016.
- Approved Code of Practice: Management and Removal of Asbestos.
- MfE Contaminated Land Management Guidelines No 1.

Remedial Works Methodology



Relocate Transfer
Station to Temporary
Location



Management of Risk to
Human Health and the
Environment



Excavate and Cart to
Landfill

Temporary Transfer Station Location



- Install new fencing.
- Site preparation.
- Set up temporary office and amenities block.
- Relocate bins – refuse skip and basic recycling.
- Infill existing transfer station pit.

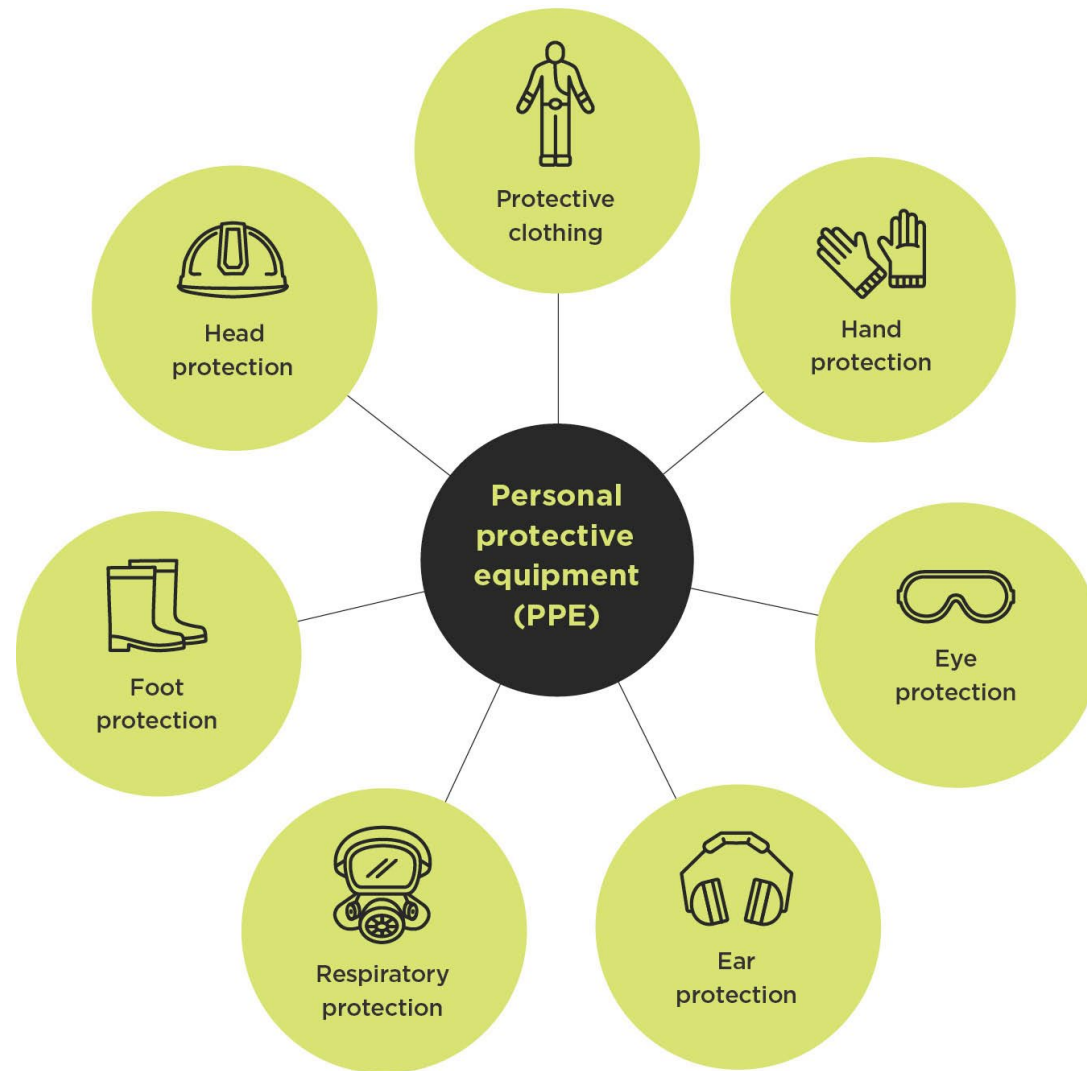
Earthworks Controls

Rock Bags

- Placed outside of the waste footprint around the perimeter of the landfill.
- Flexible and durable.
- Filled with locally sourced materials.
- Protect the waste from river flows – prevent erosion.
- Remove after works.



Health and Safety Controls



Excavation



- Excavate a small area of the landfill at one time – four stages.
- No stockpiling permitted.
- Load directly into plastic lined truck and trailer units.
- Water spray available if dusty.

An Alternative? Encapsulated Cell



Transport out of region not sustainable and very costly.

Considering development of encapsulated cell in region – but need a site!

Base would be engineered as follows:

- Compacted clay.
- HDPE liner.
- Geotextile layer.
- Uniform gravel.

Cap would comprise compacted clay, then grassed.

Resource Consent Application

- Mana whenua engagement hui held on 28 April – good korero.
- Resource consent needs technical reports to support the assessment of effects of the activity (e.g. effects of contamination, effects of construction, such as noise, dust, traffic, etc, effects on the awa and indigenous habitats).
- Ecological Impact Assessment is in progress – field work undertaken, report expected to be issued late June.
- Acoustic Assessment and Traffic Impact Assessments are awaiting confirmation of the disposal location.
- Resource consent application will be finalised and lodged after that.
- Site preparation works (including relocation of transfer station) is likely to start Aug/Oct with physical remedial works to begin November - subject to consent.

Questions?



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