

## HYLAND HIGHWAY

# Landfill



Latrobe City Council owns and operates an EPA licensed landfill facility at Hyland Highway Loy Yang, for the disposing of solid inert, putrescible and specified prescribed wastes (domestic asbestos) (EPA Waste Discharge Licence No. LS65990). The landfill commenced operation in late-May 2009 and has a projected lifespan for the receipt of waste until 2024 under the current EPA licence. Landfill cells will be progressively rehabilitated and aftercare will then continue for many years.

The landfill site was established and approved on the basis of regional circumstance within Gippsland, and more specifically to meet the needs of Latrobe City. The Hyland Highway landfill is a regional landfill; it currently accepts commercial waste from across the Gippsland area and municipal waste from Latrobe City. The landfill has accepted waste from across Gippsland area since opening.







## OPERATIONS

### Cell 4

Cell 4 is currently receiving waste since opening in April 2016. It has received a total of 67,400 tonnes of waste material (as at the end August 2017) consisting of:

- 31,000 tonnes of municipal (household) waste from Latrobe City Council
- 14,000 tonnes of municipal (household) waste from Baw Baw Shire Council
- 22,400 tonnes of commercial (business and industry) waste

Baw Baw Shire Council ceased the disposal of waste at Hyland Highway Landfill on 31 October 2017.

### Stormwater and litter compliance

The stormwater runoff and leachate generated from the rainfall on the landfill cell are well managed without any environmental implications.

The landfill team continues to undertake daily tasks, including litter collection and placement of daily cover to ensure compliance with the EPA Victoria license.

The team completes a checklist each morning to record any issues that may include, but not limited to:

- security fences
- levels in leachate pond
- detectable odour at the landfill perimeter
- dust
- access roads
- weather conditions.

## ENVIRONMENT

The Hyland Highway Landfill Annual Performance Statement was submitted on 19 September 2017 to EPA Victoria as required. A licence holder reports its environmental performance for the previous financial year in the form of an Annual Performance Statement (APS). This lists performance against each licence condition and requires an explanation of all non-compliance of licence conditions. APS reporting does not replace the need for immediate reporting of non-compliances to EPA. Licence holders must explain any non-compliance in their APS, including what actions have been taken to address the issue.

## Odour

Odour beyond the landfill boundaries has been a concern for some local residents with reports usually coinciding with foggy mornings in the winter months.

Over the past financial year Council has taken the following reactive and proactive actions to mitigate any potential odour:

- Odour masking agent sprayed on the uncapped area of the landfill
- Decommissioning the small leachate pond and directing all leachate from cells 1 and 2 to the large leachate pond through a sump and pump system
- Installing aerators in both leachate ponds
- Installing landfill cap and gas extractions system in approximately two hectares of landfill area
- Flaring all extracted landfill gas to mitigate odour and greenhouse gas impact on the environment



Rehabilitation and capping of cell 1 and 2 will also alleviate any odour issues from the waste mass and change conditions of the waste as the amount of water entering the waste mass will be significantly reduced. The surface contour, topography and movement of air/odour will also change with the capping.

### Odour monitoring

Council engaged an odour monitoring consultant to investigate the odour issues of the landfill. The consultant sampled and analysed the air from the potential odour sources such as the landfill tipping face and leachate ponds.

The consultant will develop an odour dispersion model to locate the source area, intensity and frequency and validate the model with real time observations. The odour sampling will start soon, weather permitting.

The consultant has analysed gas samples from the landfill gas flare and ruled out the landfill gas flare as a potential odour source. The second phase of odour measurement has been completed.

Latrobe City Council will involve the community to report odour monitoring with details such as date, time, location and intensity.

An odour reporting form is available on the Latrobe City website for all community members to use if they detect odour from the landfill site: [www.latrobe.vic.gov.au/OurServices/Waste/Landfill](http://www.latrobe.vic.gov.au/OurServices/Waste/Landfill)

### Leachate

In the period from July 2016 to September 2017, 8 million litres of leachate has been processed on site using Reverse Osmosis. The quantity of leachate generation is expected to reduce with the completion of recent landfill capping.

### CONSULTATIVE COMMITTEE

Council approved a new Consultative Committee at its meeting on 8 May 2017, and Consultative Committee meetings were held in June and September 2017.

Next committee meeting is scheduled for 5 December 2017 at Highland highway Landfill from 5pm.

### CELL REHABILITATION

With the recently completed landfill capping construction contract, cells 1 and 2 and a portion of cell 3 have been capped. A total of capped area of 3.2 Ha.

The design meets EPA Victoria best practice standards to prevent infiltration of rainwater into the waste. This substantially reduces the generation of leachate from the waste. Construction of landfill cell caps undergo the same rigorous auditing process as the construction of a new cell.

A landfill gas collection system has been installed within the capped cells. Gas collected in the wells are captured and flared. Currently, Council is conducting an assessment of viability for power generation from landfill gas.

### FUTURE CELL CONSTRUCTIONS

Last financial year the bulk excavation of a new cell was completed and currently cell liner construction is in progress.

### REVEGETATION

Council has commenced screen planting along the boundary of Callignee South Road. Approximately a thousand plants have been planted in strategic locations during September 2017. This work will continue over the coming years to revegetate the area with native plants.



Planting at the landfill





Landfill after cell 3 rehabilitation

#### MORE INFORMATION

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