

WORKS APPROVAL

LATROBE CITY COUNCIL

**Holder of
Works Approval:** 214663

Issued: 30/12/2019

ABN: 92 472 314 133

Registered Address: 141 COMMERCIAL RD / MORWELL VIC 3840

Premises Address: 64 HYLAND HIGHWAY, LOY YANG, VIC 3844

Scheduled Categories: A05 Landfills

Description: To construct an extension to the existing Hyland Highway Landfill for the deposit of putrescible municipal waste, commercial and industrial solid inert waste, pneumatic tyres shredded into pieces <250 mm, and the permanent disposal of asbestos of domestic origin following storage in a designated temporary storage container by the weighbridge prior to placement in the landfill with associated landfill infrastructure.



TIM EATON
Executive Director, Regulatory Standards, Assessments & Permissioning
Delegate of the Environment Protection Authority

Issued under the *Environment Protection Act 1970*, Section 19B



PREAMBLE

Works Approvals

Who we are: The Environment Protection Authority (“EPA”) is an independent statutory authority established under the *Environment Protection Act 1970* (“the Act”). Our purpose is to protect and improve our environment by preventing harm to the environment and human health.

Why we issue works approvals: EPA is responsible for preventing or controlling pollution (including noise) and improving the quality of the environment. This responsibility includes regulating activities that may present a danger to the environment. One of the tools available to EPA is issuing works approvals for scheduled premises to prevent or minimise risk to the environment.

Section 19A of the Act requires the occupier of a “scheduled premises” to obtain works approval to construct or install plant and equipment in order to discharge, handle, treat or dispose of waste to the environment. These types of premises are defined in the *Environment Protection (Scheduled Premises and Exemptions) Regulations 2007* (“the Regulations”).

When we issue works approvals: EPA will issue a works approval when satisfied that an applicant has put in place measures to protect the environment. Works approvals allow construction of works to occur and set control measures to minimise a site’s environmental risk. EPA can amend a works approval in response to changes in standards and site activities. Works approval holders must submit reports if required by a condition of the approval.

Works Approval information and obligations

For the purposes of this works approval “You” means the works approval holder identified on the first page of this works approval at the “premises” identified on the first page and represented in Schedule 1.

If you object to any of the works approval conditions, you may have the decision reviewed by applying in writing to the Registrar, Planning and Environment Division, Victorian Civil and Administrative Tribunal (“VCAT”), 7th Floor, 55 King Street, Melbourne within 21 days of the date of issue. An application fee may be applicable when lodging an appeal with VCAT. Contact VCAT on (03) 9628 9777 for further details on fees associated with an appeal. A copy of the appeal should also be forwarded to the Manager, Development Assessments Unit, Environment Protection Authority, GPO Box 4395, Melbourne, 3001, within 7 days of lodgement of the appeal.

Interested (third) parties may also appeal against the works approval within 21 days of the date of issue. The Tribunal will notify you if such appeals are received. If an appeal is lodged, you must not go ahead with the works until the appeal is resolved.

Compliance: You must comply at all times with the Act and all policies and regulations administered by EPA. Strict penalties apply for non-compliance with any part of your works approval.

Works Approval structure

Structure: Your works approval has:

- Works conditions - setting out requirements for construction or installation;
- Schedule 1A - locality plan of your premises;
- Schedule 1B - plan of premises (provided by you).

Some types of works approvals also contain Schedule 1C - final landfill contour plan



CONDITIONS

General Conditions

- WA_G1 Subject to the following conditions, this approval allows the construction of the following works and associated equipment – four additional (Type 2) landfill cells at the existing Hyland Highway Landfill facility for the deposit of putrescible municipal waste, commercial and industrial solid inert waste, pneumatic tyres shredded into pieces <250 mm, and the permanent disposal of asbestos of domestic origin following storage in a designated temporary storage container by the weighbridge prior to placement in the landfill with associated landfill infrastructure.
- WA_G2 The works must be constructed in accordance with the application accepted on 12 September 2019 comprising the application received on 30 August 2019 ('the application') except that, in the event of any inconsistency arising between the application and the conditions of this approval, the conditions of this approval shall apply.
- WA_G3 This approval will not take effect until any permit which is required under the *Planning and Environment Act 1987* has been issued by the Responsible Planning Authority.
- WA_G4 This approval expires:
- on the issue or amendment of a licence relating to all works covered by this approval
 - when EPA advises in writing that all works covered by this approval have been satisfactorily completed and no licence is required, or
 - on 30 June 2022, unless the works have been commenced by this date to the satisfaction of EPA.

Works Conditions

- WA_W1 Before commencing construction of the following components of the works, you must provide to EPA a report or reports with the plans and specifications of those components, including details on:
- the need for landfilling at the site, as demonstrated by the presence of the site on the landfill schedule in the Statewide Waste and Resource Recovery Infrastructure Plan and the Gippsland Waste and Resource Recovery Implementation Plan (and any future successor or replacement policy documents);
 - the geotechnical stability assessment including material characteristics and specifications, with supporting evidence, demonstrating total geotechnical stability for each landfill cell or leachate pond;
 - an updated stormwater model and stormwater management system design;
 - the plans, the technical specifications and a construction quality assurance plan (CQA plan) ("design documents"), assessed by an EPA-appointed auditor, in accordance with the procedures outlined in EPA Publication 1323.3 (Landfill Licensing Guidelines) (as amended from time to time), for the design and construction of each landfill cell and leachate pond prior to submission for EPA approval. The plans, technical specifications and CQA plan must comply with the Works Approval Application, the liner configuration given in GHD Drawing No. 31-36742-C005, and EPA Publication 788.3 Best Practice Environmental Management (Siting, Design and Management of Landfills) (as amended from time to time);
 - for each cell or leachate pond the name of the environmental auditor, appointed under the Environment Protection Act 1970, engaged by you to conduct the audit required under WA_R1; and
 - designs of the environmental monitoring network infrastructure to include landfill gas, odour, dust, groundwater and surface water monitoring for the premises.
- WA_W2 You must not commence construction of those parts of the works for which reports are required by condition WA_W1 until written EPA approval of those reports has been received.
- WA_W3 Where any reports specified in condition WA_W1 and approved by EPA differ from the application, the works must be constructed in accordance with those approved reports.
- WA_W4 You must notify EPA when the construction of the works covered by this approval has commenced.
- WA_W5 You must notify EPA when the construction of the works covered by this approval has been completed.
- WA_W8 You must install:
- at least one groundwater monitoring bore in the second coal seam of the Traralgon Formation aquifer up-gradient of the landfill where it is not influenced by seepage out of the landfill
 - fencing around the perimeter of the premise including 4m high litter fencing in key areas to prevent litter escaping the premise;
 - litter traps on stormwater drains;
 - a leachate collection system with a capacity sufficient to maintain leachate levels such that the depth of leachate above the lowest point of the drainage layer does not exceed 300 millimetres.;
 - a landfill gas collection system to a design approved by the EPA;
 - a landfill gas detection bore network with monitoring bores located within the premises between the landfill cells and premises boundary, to be monitored quarterly. The bores should be at least 20m distant from the edge of the waste. The landfill gas perimeter monitoring bore spacings must meet the recommended spacings in Table B.2 of EPA Publication 788.3 Best Practice Environmental Management (Siting, Design and Management of Landfills) (as amended from time to time);
 - fire-fighting equipment including on-site water trucks that must be available on-site at all times; and
 - dust monitors detailed in condition WA_W1(f) and approved by WA_W2.

- WA_W13 You must implement all liquid storage containment and handling measures in accordance with EPA Publication 1698 “Liquid storage and handling guidelines”, dated June 2018.
- WA_W14 You must install all wastewater discharge points so that provision for sampling are included in accordance with **EPA publication 441** ‘Guide to the Sampling and Analysis of Waters, Wastewaters, Soils and Wastes’, as amended from time to time.
- WA_W15 During construction, unacceptable noise (including vibration) must not be emitted beyond the boundaries of the premises.
- WA_W16 During construction, stormwater discharged from the premises must not be contaminated with waste.
- WA_W17 All construction activities must be undertaken in accordance with **EPA publication 480** “Environmental Guidelines for Major Construction Sites”, as amended from time to time.
- WA_W18 During construction, you must undertake an environmental monitoring program that enables you and EPA to determine compliance with conditions(s) WA_W15 and WA_W16.
- WA_W19 During construction, you must ensure that all activities are carried out in accordance with the information provided in the works approval application.

Reporting Conditions

- WA_R1 At least two months before commencement of any commissioning, you must provide to EPA reports that include(s):
- an environmental audit report, under S53V of the EP Act on the risk of harm and confirming construction compliance in accordance with EPA approved reports as set out in condition WA_W2 above;
 - a report which details liner leak detection test results for each cell liner and the person who conducts and reports the liner leak detection survey should be independent to the contractor who constructs the landfill cell or leachate pond;
 - details of how you have informed the community through the Hyland Highway Landfill Consultative Committee (HHLCC) or alternative engagement activities of the progress regarding the construction of cells and leachate pond and the progressive rehabilitation of the landfill. This must include explanations about how any issues or concerns raised have been considered; and
 - the environmental performance of the preceding cells as determined by the monitoring required in the monitoring and management plans identified in WA_R4.
- WA_R4 Before the commencement of any commissioning, you must provide, to the satisfaction of EPA, a report that includes:
- an updated overarching Environmental Monitoring and Management Plan (EMMP) to manage potential environmental impacts. The approved EMMP must be implemented to the satisfaction of the Authority and should be reviewed and updated two years at the time of statutory section 53 environmental audit. The EMMP should update and build on the existing landfill’s Environmental Monitoring Program and comprise the following discrete elements:
 - a Dust Monitoring and Management Plan incorporating an Air Monitoring Program & Dust Deposition including but not limited to;
 - Implementation of best practice airborne particulate and dust control measures that also includes adaptive operational practices to respond and control dust events on site;
 - real time PM₁₀ air monitoring that enables an assessment of air quality impacts and triggers reactive management practices to be implemented during periods where dust events on-site are likely;
 - retention of monitoring records for the Authority; and

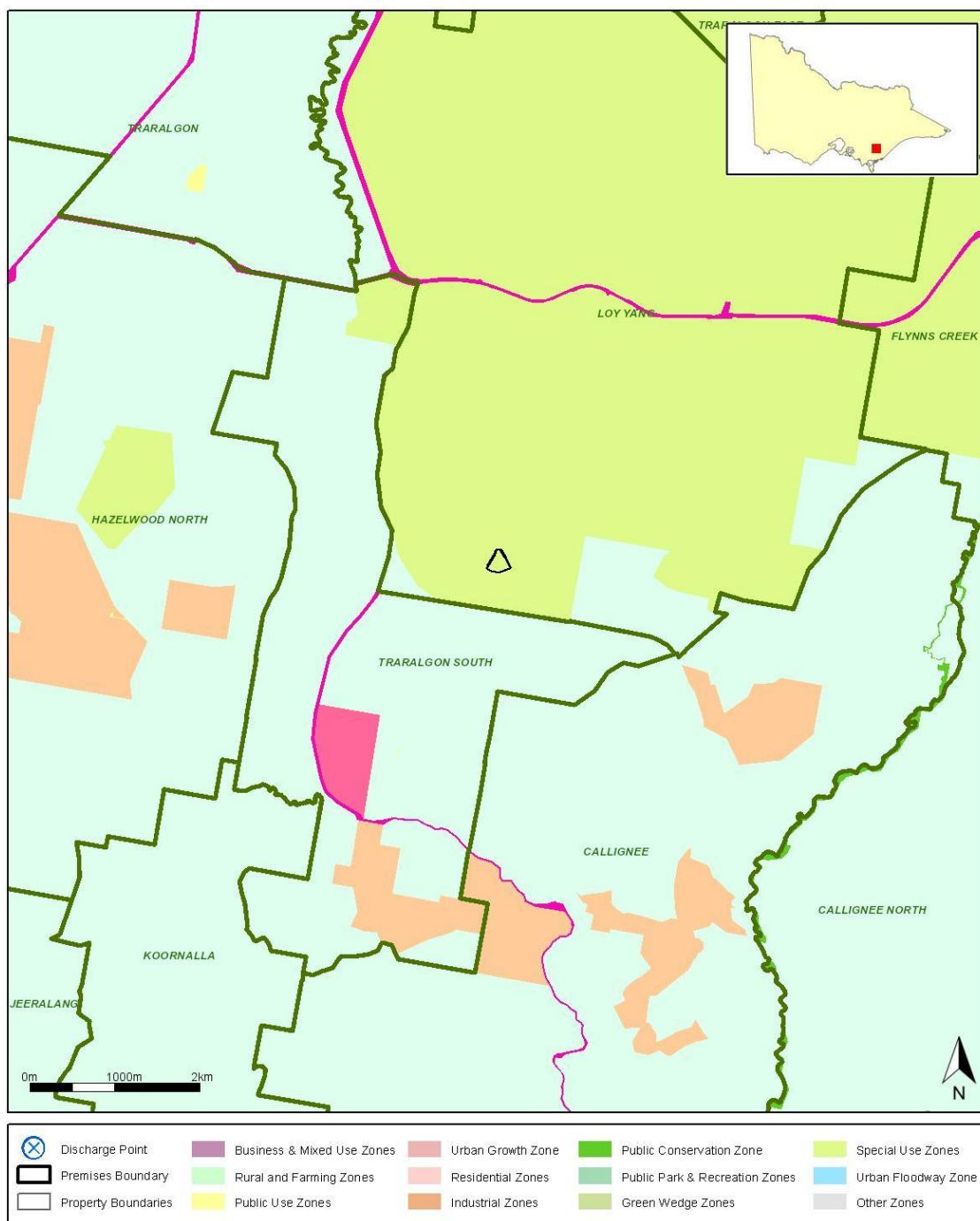
- (iv) the approved Dust Management and Monitoring Plan must be implemented and incorporated in the site environment management plan to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.
- b. an Odour Monitoring and Management Plan which should detail the odour management controls and monitoring regime to be undertaken during the life of the landfill including but not limited to:
 - (i) identification of potential odour sources and receptors;
 - (ii) specifying the odour mitigation measures and procedures to manage the odour impact off-site of the various potential odour sources and to mitigate the off-site odour impacts;
 - (iii) comprehensive monitoring practices, including surveillance by independent and appropriately trained personnel;
 - (iv) procedures for addressing the odour source if a complaint is verified, including consideration of any mitigation measures or operational changes that might be required;
 - (v) provision of surveillance or monitoring records to the HHLCC, the Responsible Authority and the Authority;
 - (vi) incorporation of a requirement to assess new odour management technologies or tools on a regular basis; and
 - (vii) the approved Odour Monitoring and Management Plan must be implemented to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.
- c. a Landfill Gas Monitoring and Management Plan including but not limited to:
 - (i) details (numbers, locations, construction details and bore logs) of landfill gas perimeter monitoring bores located within the premises between the landfill cells and premises boundary, to be monitored quarterly. The bores should be at least 20m distant from the edge of the waste. The landfill gas perimeter monitoring bore spacings must meet the recommended spacings in Table B.2 of EPA Publication 788.3 Best Practice Environmental Management (Siting, Design and Management of Landfills) (as amended from time to time);
 - (ii) the sequencing for the design and installation of the landfill gas extraction system in each cell;
 - (iii) the sequencing for the design and installation of the horizontal gas wells in each active cell;
 - (iv) the sequencing for the approval and installation of gas engines, gas flares and ancillary equipment including increases in the electrical interconnection for the gas engines;
 - (v) a program of inspection and maintenance of landfill gas extraction and monitoring infrastructure including provision of standby equipment;
 - (vi) a schedule of landfill gas well balancing frequency and condensate management; and
 - (vii) the approved Landfill Gas Monitoring and Management Plan must be implemented to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.
- d. a revised Groundwater Monitoring and Management Plan including but not limited to:
 - (i) incorporating relevant recommendations from the 2017 Environmental Operational Audit (Nolan, 2017);
 - (ii) installation of at least one monitoring bore within the second coal seam of the Traralgon Formation aquifer which is located up-gradient and beyond the influence of the landfill;
 - (iii) the approved Groundwater Monitoring and Management Plan must be implemented to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.
- e. a Surface Water Monitoring and Management Plan including but not limited to:
 - (i) sampling of water at retention points prior to discharge to the environment and downstream of the site in Traralgon Creek;

- (ii) visual inspection of sediment and erosion control facilities and other potential sources of contamination;
 - (iii) a sampling plan and methods consistent with those in EPA publication IWRG701;
 - (iv) routine testing of stormwater for, but not limited to, the following physio-chemical parameters: total phosphorus and nitrogen, turbidity, electrical conductivity, pH, and dissolved oxygen with occasional testing for heavy metals and indicators of leachate. The sampling frequency and reporting is to be agreed with EPA as are the action levels for each parameter; and
 - (v) the approved Surface Water Monitoring and Management Plan must be implemented to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.
- f. a Vermin Monitoring and Management Plan including but not limited to;
- (i) procedures for monitoring the presence and occurrence of vermin and the setting of trigger action levels;
 - (ii) management activities to control any vermin infestations on-site and to prevent the spread of vermin onto adjacent properties; and
 - (iii) the approved Vermin Monitoring and Management Plan must be implemented to the satisfaction of the Authority and must be reviewed, and if necessary, updated every 2 years to the satisfaction of the Authority.

2. an updated Fire and Emergency Management Plan which addresses to the satisfaction of EPA, the recommendations of the CFA in their referral response of 3 December 2019.

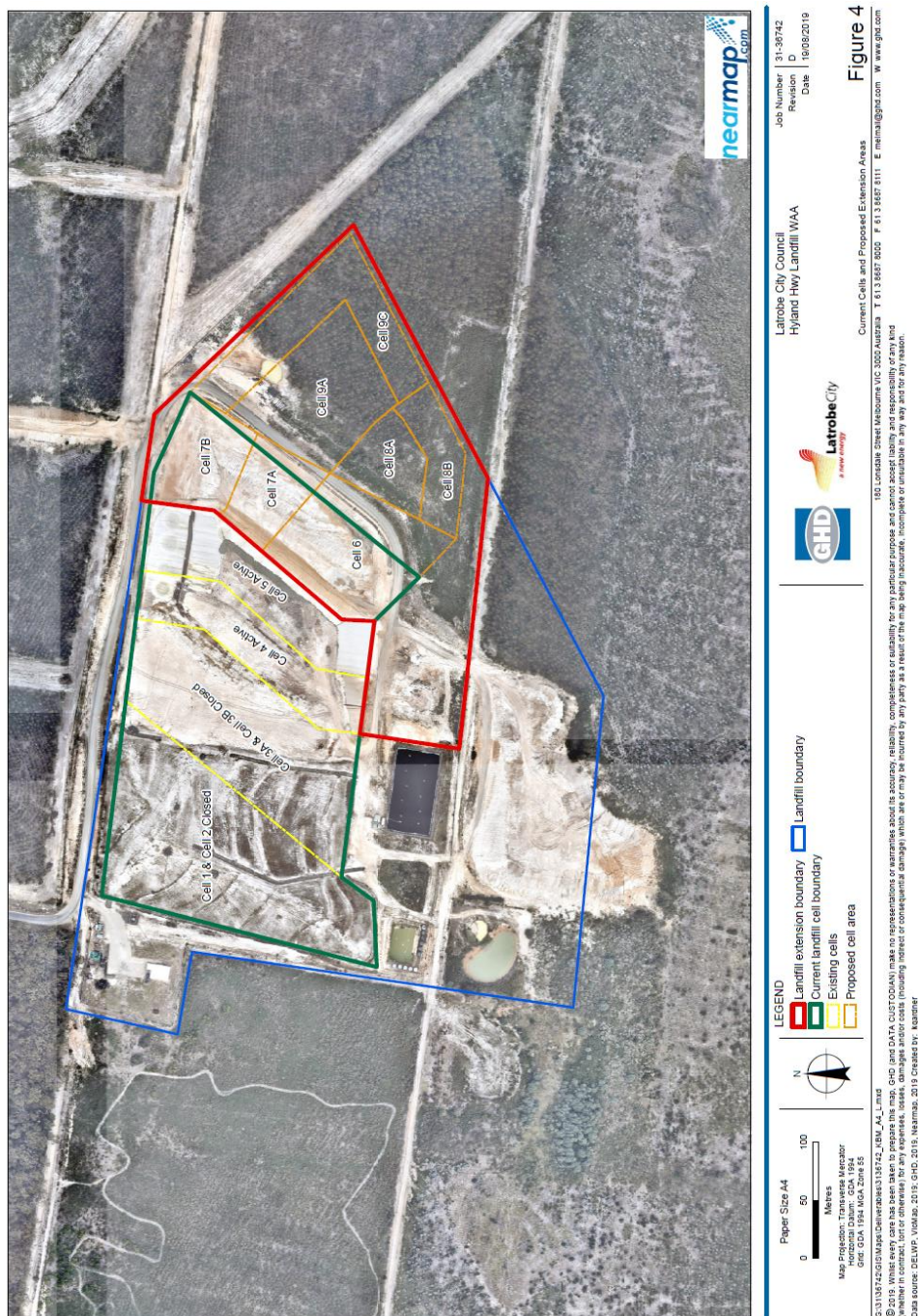
WA_R5 You must not commence operation of the works until written EPA approval of the reports required by condition(s) WA_R1 has been received.

SCHEDULE 1A – LOCALITY PLAN



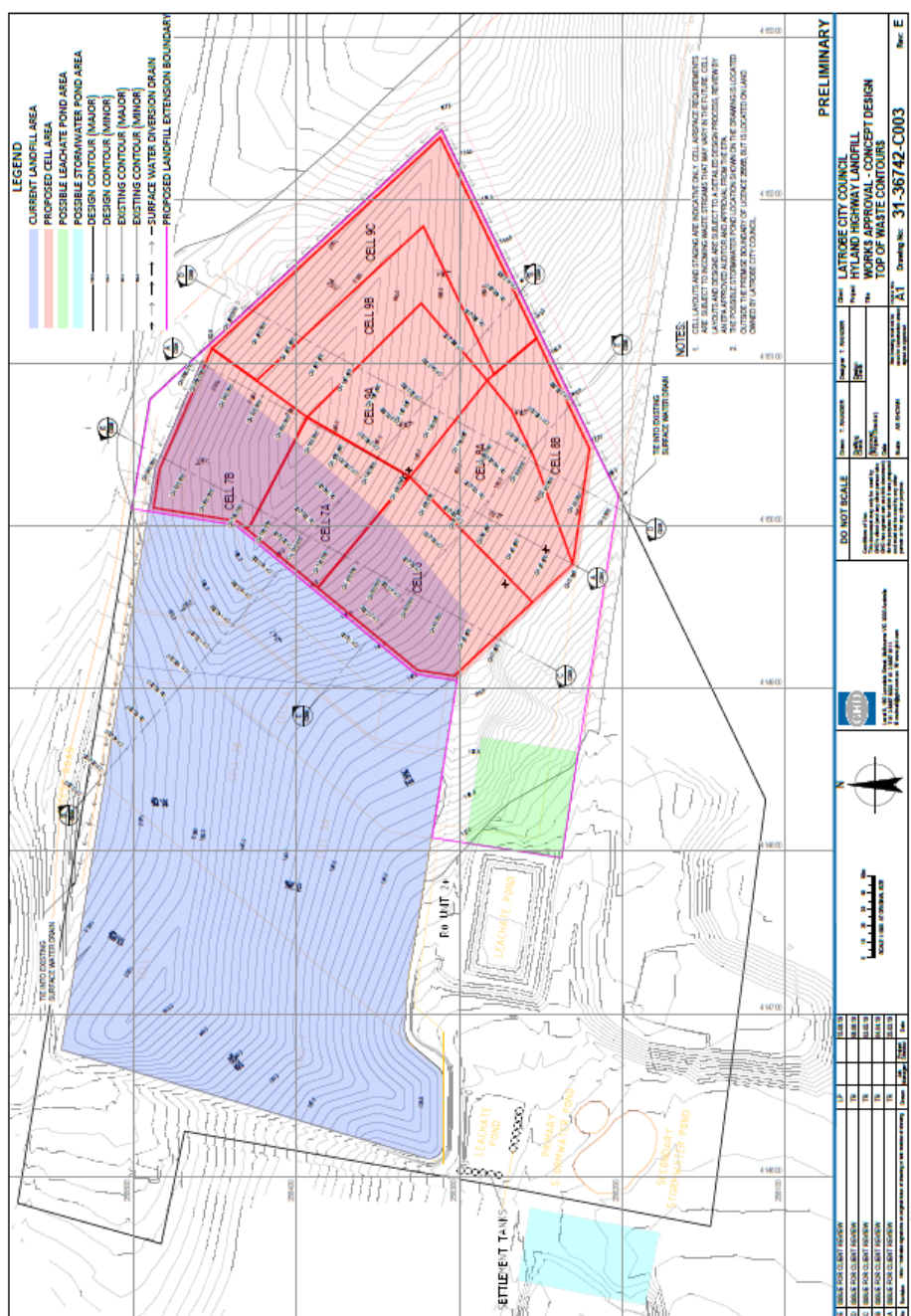
Works Approval:	214663
Company Name:	Latrobe City Council
ABN:	92 472 314 133
Premises Address:	65 Hyland Highway, Loy Yang, VIC 3844
Issued:	30 December 2019
Before relying on the information in this map, users should carefully evaluate its accuracy, currency, completeness and relevance for their purposes, and should obtain any appropriate professional advice relevant to their particular circumstances.	

SCHEDULE 1B – PREMISES PLAN



Works Approval:	214663
Company Name:	Latrobe City Council
ABN:	92 472 314 133
Premises Address:	65 Hyland Highway, Loy Yang, VIC 3844
Issued:	30 December 2019
Before relying on the information in this map, users should carefully evaluate its accuracy, currency, completeness and relevance for their purposes, and should obtain any appropriate professional advice relevant to their particular circumstances.	

SCHEDULE 1C – CONTOUR PLAN



Works Approval:	214663
Company Name:	Latrobe City Council
ABN:	92 472 314 133
Premises Address:	65 Hyland Highway, Loy Yang, VIC 3844
Issued:	30 December 2019
Before relying on the information in this map, users should carefully evaluate its accuracy, currency, completeness and relevance for their purposes, and should obtain any appropriate professional advice relevant to their particular circumstances.	