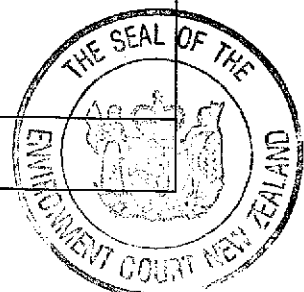
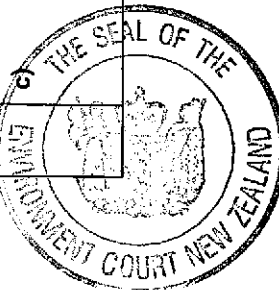


- o To facilitate gravity drainage of leachate from the landfill.
- o To maximise flexibility to cater for variations in airspace demand.
- o To enable early closure scenarios to be readily provided for.
- o To provide good wind shelter to initial phases.
- o To configure slopes and benches so that the synthetic liner components can be readily installed.
- o To ensure the basegrade slopes are stable for both the construction and long term cases.
- o To comply with all conditions of these consents.
- Site access
 - Objectives:
 - o To ensure only vehicles that are covered by a Waste Cartage Contract have access to the landfill.
 - o To manage waste vehicle landfill arrival timing to minimise peaks in off-site and on-site traffic.
 - o To manage waste vehicle landfill arrival timing to maximise the time gaps between landfill-related heavy vehicles on Mt Cass Road and State Highway 1.
 - o To ensure no unauthorised access to the landfill.
 - o To ensure that vehicle movements remain within approved limits.
 - o To ensure that all waste being transported to the landfill is securely contained in a manner that prevents the escape of liquid or solid material from the vehicle, either in motion or at rest.
 - o Waste haul vehicles accessing the site shall comply with the following standards:
 - Euro III Vehicle Emission Standard EU Directive 1999/96/EC
 - European Truck Noise Standard EU Directive 96/20/EC
 - o To ensure that all landfill users have a current Landfill Users Contract.
 - o To ensure that all landfill users are fully aware of the Waste Acceptance Protocol.
 - o To provide safe intersections.
 - o To minimise road maintenance requirements.
 - o To minimise effects of road upgrading on the environment.
- Fencing and security
 - Objectives:
 - o To ensure no stock can get onto the landfill site.
 - o To fully control access to the landfill working areas.
 - o To ensure that only authorised persons access operational areas.
- Earthworks
- Liner construction
 - Objectives:
 - o To contain leachate and LFG generated within the landfill and limit their migration into the underlying soil and groundwater.
 - o To provide attenuation of chemicals within the liner layers.
 - o To ensure liner design is consistent with the objectives set out in Section 4.7 of the CAE Landfill Guidelines (2000), and is consistent with meeting USEPA Subtitle D design requirements.
 - o To minimise opportunities for liner hydration
- Stormwater and silt control
 - Objectives:
 - o To divert as much stormwater as possible away from the active face of landfill so that operational leachate volumes are minimised.
 - o To design stormwater systems so as to minimise liner hydration
 - o To provide effective drainage of the final surface of the landfill so that scour of the cap is prevented and long term seepage into the landfill is minimised.
 - o To keep all stormwater runoff from landfill activities within the Kate Valley catchment, to maximise runoff available for water supply storage, and ensure environmental impacts on surrounding catchments are minimised.



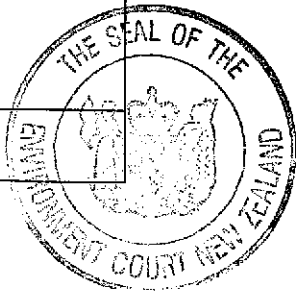
- o To control silt runoff from the site so that silt discharges below the water supply dam are not greater than those currently occurring naturally.
- o To detain flows from runoff so that deposition of transported sediment can occur through settlement.
- o To minimise disturbed earthworks areas.
- Leachate collection and treatment
 - Objectives:
 - o To have no liner penetrations.
 - o To ensure the average leachate head on the liner does not exceed 300 mm.
 - o To ensure all main leachate collector drains and sumps are readily accessible for cleaning and flushing.
 - o To maximise gravity flow.
 - o To ensure leachate storage tanks are contained within a bunded area with 25% more holding capacity than the tanks.
 - o To ensure that the removal of leachate from site for treatment is undertaken safely in accordance with the Code of Practice for Hazardous and Liquid Waste.
- Landfill gas collection and treatment
 - Objectives:
 - o To control odours so that there shall be no odour or particulate matter that causes an objectionable effect beyond the boundary of the land owned by the Consent Holder, or land over which the Consent Holder has rights.
 - o To ensure maintenance of methane concentrations at monitoring probes located at the property boundary below the lower explosive limit (LEL), which corresponds to 5 percent methane by volume.
 - o To ensure maintenance of methane concentrations in on-site structures at or below 25 percent of the LEL, or 1.25 percent by volume.
 - o To provide for the treatment of recovered landfill gas by combustion.
 - o To ensure that surface emission concentrations above the areas of the landfill surface that are closed or are under intermediate cover, are maintained at less than 5,000 ppm as methane.
- Onsite roading
 - Objectives:
 - o To provide maintenance and service access to the landfill and surface drains.
 - Site amenities and infrastructure including water and power reticulation
 - Objectives:
 - o To ensure continued provision of potable water from Pump Creek.
 - o To ensure sufficient water is available in the water storage dam for all landfill operational and construction requirements.
 - o To maintain the required minimum flows in Kate Creek.
 - o To ensure adequate water storage for fire-fighting.
 - o To ensure all fuelling is undertaken in designated areas.
 - o To ensure all fuelling and chemical storage areas are suitably bunded.
 - o To ensure equipment is parked overnight or long term in designated areas.
- Restoration and landscaping
 - Objectives:
 - o To rehabilitate disturbed areas.
 - o To provide for the conservation and enhancement of native vegetation communities and wetlands in the middle and lower Kate Valley.
 - o To provide practical and sustainable screening of landfill operations.
 - o To provide wind shelter and assist with litter control.
 - o To provide erosion control.



Operation:

- Management of site users including traffic management
 - Objectives:
 - o To manage landfill traffic to provide a safe working environment for all people on site.

- o To maximise efficiency of container transfer.
- o To minimise waste cartage vehicle turnaround time.
- o To minimise waste container turnaround time.
- Waste Acceptance Criteria and procedures
 - Objectives:
 - o To ensure the receiving environment is protected.
 - o To ensure the health and safety of people is protected.
 - o To ensure all waste received is compatible with the landfilling operation.
 - o To ensure all waste landfilled complies with the "Waste Acceptance Criteria", set out in consent CRC021913.
 - o To ensure that the composition of all special waste is identified.
 - o To ensure that all special waste disposal is pre-booked.
 - o To ensure that appropriate provisions for disposal of each special waste load are in place before the waste arrives at the landfill.
 - o To provide a suitably protected and controlled location for temporary storage of inadvertent hazardous or otherwise unacceptable waste.
 - Placing of refuse and daily cover
 - Objectives:
 - o To achieve a minimum in-situ refuse density of 850 kg per cubic metre, inclusive of temporary and intermediate cover.
 - o To ensure no compaction equipment operates closer than 1 m to the landfill liner protection layer.
 - o To maintain a working face that is as small as possible.
 - o To cover all refuse daily.
 - o To ensure no special waste is placed within 3 m of the base or sidewall liners.
 - o To record the location of special waste by survey.
 - o To ensure that disposal of odorous loads only takes place when the following measures are in place:
 - Odour masking chemicals are available
 - An appropriately sized pit is available
 - Meteorological conditions are suitable
 - Equipment is available to immediately cover the waste
 - Leachate management
 - Landfill gas management
 - Nuisance control
 - Objectives :Litter
 - o To avoid wind-blown litter outside the site boundaries.
 - o To ensure litter does not accumulate on screens and litter fences.
 - o To maintain a clean and tidy site.
 - Objectives :Odour
 - o To ensure effective daily cover of at least 150 mm of soil or equivalent alternative material.
 - o To keep the working face as small as practicable.
 - o To ensure effective intermediate cover of at least 300 mm thickness.
 - o To avoid excavation into old areas of refuse as far as practicable.
 - o To minimise water ingress to the working face.
 - o To achieve early and progressive installation and extraction from the LFG system in the active landfill areas.
 - o To avoid having gas wells unconnected to the extraction system.
 - o To ensure provision for standby power to avoid flare outages.



- o To ensure sealed road surfaces are regularly swept.
- o To keep unsealed road surfaces and working areas moist where potential for dust emissions outside the site boundary exists.

Objectives :Noise

- o To operate the landfill within the site boundary noise limits.
- o To ensure all site machinery is well-maintained
- o To maintain an operative Noise Management Plan detailing mitigation measures if noise complaints are received.

Objectives: Fire

- o To ensure that adequate fire control equipment is present on site and operable at all times, for all fires, including landfill fires.
- o To maintain an operative Fire Plan in conjunction with the Ashley Rural Fire Committee

Site security

Objective:

- o To control access to the site at all times.

Facilities maintenance including weed and pest management

Objectives:

- o To liaise with neighbours over weed and pest management strategies.
- o To avoid the establishment of vermin, insect and bird populations through effective management of the refuse disposal process and area.

Incident Contingency Plans for transportation of waste and leachate

Objective:

- o To ensure that all waste and leachate transporters have current incident contingency plans meeting the Ministry for the Environment Code of Practice for the Transport of Hazardous and Liquid Waste and are consistent with the Transport Contingency Plan as required in condition 32 of this consent.

d) Maintenance of:

- Leachate collection system
- Landfill gas collection system
- Leachate storage tanks

e) Monitoring and Contingency with respect to surface water, groundwater, leachate, landfill gas, and nuisance:

- Monitoring locations
- Monitoring parameters
- Monitoring frequency
- Detection limits
- Reporting

- Trigger levels (for each monitoring location) for implementing contingency/remedial actions
- Proposed contingency measures

Objectives:

- o To ensure that potential contaminants are retained within the Landfill site.
- o To ensure that injury to people is avoided or minimised.
- o To ensure that damage to property is minimised.

f) Aftercare:

- The final landform and landuse
- Capping and revegetation

Objectives:

- o To minimise ingress of rainwater into the landfill.
- o To minimise erosion and cracking of the cap through design, planting and maintenance.
- Weed and pest management
- Operation and maintenance of leachate management systems
- Operation and maintenance of landfill gas management systems

