

Attachment 6A

Abbott's Liquid Salvage licence L7827/2001/6

Premises description and Licence summary

Abbotts Liquid Salvage Pty Ltd (ALS) currently operates a liquid waste facility under Licence L7827/2001/6, on part of Lot 4638 on Plan 157018 on Albany Highway (Premises). The Premises is located approximately 14km north of the City of Albany. The Premises accepts biological waste, non-toxic salts and low strength wastewater for treatment within a pond system, consisting of three settling ponds and two facultative ponds. The treated wastewater is stored within a large evaporation storage dam prior to irrigation of a timber blue gum plantation within the Premises boundary. Sludge produced onsite is collected and dried within a drying bed also located within the Premises. Abbott's received additional development approval from the City of Albany on 10 November 2015 to allow for composting operations to occur at the premises and the licence was amended on the 14th July 2016 by DWER to add category 67A.

The ALS liquid waste facility, consists of a liquid waste receival tank, a non-conforming load storage tank, three anaerobic settling ponds, two facultative ponds, an irrigation storage dam, a stormwater runoff dam and a desludging/drying bed. The non-conforming load tank, is a partially submerged impervious concrete tank that is not connected to the pond system.

The facility accepts up to 20,000kL of liquid wastes per year into the treatment ponds. The existing irrigation storage dam has a capacity of approximately 18,100kL (excluding the freeboard). Water balance calculations for the pond system shows that the 18,100kL capacity is sufficient considering all current inputs and outputs, of accepted liquid wastes, rainfall from 1 in 20 year rainfall events and a 1 in 10 year wet year, evaporation and irrigation. The treatment ponds are lined with a synthetic poly liner and the storage irrigation dam is clay lined to meet the required permeability.

During a high rainfall year, total annual irrigation may need to be up to 15,000kL. ALS have an irrigation schedule in place with a Nutrient Irrigation Management Plan (NIMP) for the irrigation of up to 15,000kL per annum. The schedule does not include any irrigation for the 5 month high rainfall periods from May to September. At the end of summer the irrigation storage dam level will be reduced to a minimum through evaporation and irrigation of treated effluent to the blue gum tree plantation onsite.

The current composting process involves the mixing of onsite generated sludge waste with green waste collected from forestry works to form windrows. Compost windrows will be irrigated with water sourced from the onsite compost leachate dam to maintain the necessary moisture levels. Windrows will be mechanically turned as required to maintain aerobic conditions, once internal temps have reached 55 degrees Celsius for a minimum of 15 days, several windrows may be combined to produce a conditioning pile. The conditioning piles will then be screened and tested to determine the pathogen and contaminant levels within the compost, then appropriately graded prior to being stockpiled for sale. The final compost product is proposed to be sold for agriculture use provided that the product meets the necessary pathogen and contaminant levels.

ALS will follow the requirements of Australian Standard AS 4454 and meet the appropriate classification grading within the document Western Australia Guidelines for Biosolids Management (Department of Environment and Conservation 2012) for sale. If the appropriate classification level is not achieved, the compost may be returned to a composting windrow for further treatment.

The main potential emissions from the premises during operation of the liquid waste ponds and composting facility are dust, odour, leachate/contaminated stormwater and discharge of liquid waste to land. Current licence conditions and monitoring are in place for leachate/stormwater, discharge of waste water as well as dust control and odour management.

No changes to any site boundaries, onsite infrastructure or working of the premise has occurred since the current licence was last issued.

Emissions

Dust –water from the compost leachate dam will be used to suppress dust from vehicle movement or onsite plant and equipment operations

Odour-

Composting process -maintain aerobic conditions through windrows and stockpile monitoring to licence conditions with the addition of multizyme additive or mechanical turning if required. Ensure solids/sludge waste produced are sufficiently blended or covered as a minimum and placed into windrows as soon as possible

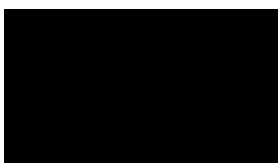
Waste ponds – manage sludge build up and surface floating debris in ponds, via mechanical sludge removal, use of aeration to manage BOD levels and beneficial multizymes/enzymes to promote breakdown of organic matter.

Noise – all normal facility operations to be carried out during Mon-Fri 6am-6pm. During emergency works, waste may be received from vacuum tankers at the facility outside of these hours, this works does not impact residents within the area.

Leachate – all leachate coming from windrows on the composting hardstand are to be directed and stored in the composting leachate run off dam

Discharge of waste water – water monitoring via 8x monitoring wells located all around the facility and irrigation carried out to licence conditions and Nutrient Irrigation Management Plan (NIMP)

Regards



04/10/2025