Government of Western Australia
Department of Environment Regulation

Works Approval

Environmental Protection Act 1986, Part V

Works Approval Holder: Westpork Pty Ltd

Works Approval Number: W5632/2014/1

Registered office: Unit 1, 7 Foundry Street
MAYLANDS WA 6051

ACN: 009 148 789

Premises address: Mindarra Farm Piggery
Lot 10 on Diagram 80101, Wannamal Road West,
GINGIN WA 6503
as depicted in Schedule 1.

Issue date: Thursday, 31 March 2016

Commencement date: Monday, 4 April 2016

Amendment date: 24 September 2020

Expiry date: Wednesday, 31 March 2021

The following category/s from the Environmental Protection Regulations 1987 cause this Premises to be a prescribed premises for the purposes of the Environmental Protection Act 1986:

Category number	Category description	Category production or design capacity	Premises production or design capacity
61	Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	100 tonnes or more per year.	To allow for the acceptance of controlled (liquid) waste
67A	Compost manufacturing and soil blending: premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost or blended soils.	1 000 tonnes or more per year.	80 000 tonnes per year.

Conditions of Works Approval
Subject to the conditions of the works approval set out in the attached pages.

Michael Greenslade

Digitally signed by Michael Greenslade
Date: 2020.09.24 15:11:48 +08'00'

A/MANAGER WASTE INDUSTRIES
REGULATORY SERVICES
Officer delegated under section 20 of the Environmental Protection Act 1986

Works Approval Conditions

1 General

1.1 Interpretation

1.1.1 In the Works Approval, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 In the Works Approval, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986;*

'annual period' means the inclusive period from 1 July until 30 June;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Chief Executive Officer
Department Administering Environmental Protection Act 1986
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Works Approval;

'Works Approval' means this Works Approval numbered W5632/2014/1 and issued under the *Environmental Protection Act 1986;* and

'Works Approval Holder' means the person or organisation named as the Works Approval Holder on page 1 of the Works Approval.

1.1.3 Any reference to an Australian or other standard in the Works Approval means the relevant parts of the standard in force from time to time during the term of this Works Approval.

1.1.4 Any reference to a guideline or code of practice in the Works Approval means the current version of the guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guidelines or code of practice made during the term of this Works Approval.

1.2 General conditions

1.2.1 The Works Approval Holder shall construct the works in accordance with the documentation detailed in Table 1.2.1:

Table 1.2.1: Construction Requirements[1]

Document	Parts	Date of Document
Compost Facility: Wannamal Road West, Gingin Works Approval Application Supporting Document, Rev 2,	All	4 November 2014

Table 1.2.1: Construction Requirements[1]		
Document	**Parts**	**Date of Document**
prepared for Westpork Pty Ltd by Strategen, November 2014.		
Letter to DER from Westpork: Environmental Protection Act 1986 – application for a works approval W5632/2014/1	All	24 February 2015
Works Approval Application Form	All	28 February 2014

Note 1: Where the details and commitments of the documents listed in condition 1.2.1 are inconsistent with any other condition of this works approval, the conditions of this works approval shall prevail.

1.2.2 The Works Approval Holder must ensure that the Works specified in Column 1 of Table 1.2.2 meet or exceed the specifications in Column 2 of Table 1.2.2 for the infrastructure in each row of Table 1.2.2.

1.2.3 The Works Approval Holder must not depart from the specifications in Column 1 and 2 for the infrastructure in each row of Table 1.2.2 except:

a) where such departure is minor in nature and does not materially change or affect the infrastructure; or

b) where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment;

and in accordance with all other conditions in this Works Approval.

Table 1.2.2: Works specifications	
Column 1	**Column 2**
Infrastructure	**Specifications (design and construction)**
1) Hardstand	(a) The composting hardstand must; (i) be constructed to an area of 3.6ha (approximately 220m x 170m) as depicted in the Site Plan in Schedule 1; and (ii) be lined with 7mm bitumen emulsion primer seal overlaid by a 35mm thick layer of asphalt to provide a minimum 42mm thick bitumen seal; and (iii) be engineered and constructed so as to be capable of accommodating the weight and movement of materials, vehicles and equipment used in the production of compost and required to operate on the hardstand, without distortion, cracking or otherwise compromising the integrity of the liner or altering the permeability and (iv) have a minimum 1% drainage gradient to ensure the free drainage of all leachate to leachate collection infrastructure; and (b) The non-composting hardstand must: (i) Be constructed to an area of 2.3ha as depicted in the Site Plan in Schedule 1; and (ii) Will be constructed for the purposes of processing of green waste into mulch for use within the composting process, as well as for storing of finished compost, soil blending, and vehicle access, parking and office area. (iii) Will have a sand sub-grade compacted: a) to 95% Maximum Dry Density (MMD);and b) overlain by a gravel sub base of 150mm thick compacted layer compacted to 95% MMD; and c) With an additional gravel base-course 100mm thick compacted layer compacted to 95% MMD.

Table 1.2.2: Works specifications	
Column 1	**Column 2**
Infrastructure	**Specifications (design and construction)**
2) Leachate collection infrastructure	Leachate collection infrastructure that will collect all leachate from the composting hardstand and direct the leachate into the leachate dam must: a) Have an impervious ($1x10^{-9}$ m/s) kerb bunding of at least 150 mm high x 150 mm wide to prevent run-on and run-off of surface water, including a 1 in 20 year storm event (20 year average recurrence interval) of 72 hours duration; and b) Have a seal between the hardstand and any bund kerbing that is impervious ($1x10^{-9}$ m/s).
3) Leachate dam	The leachate dam must be lined using a HDPE liner and must be constructed in accordance with the following specifications: a) A HDPE liner must have: a. a minimum thickness of 1.55 mm with heat welded joints; b. All seams and joins made on site should be continuous. Panels of the liner should be overlapped by a minimum of 100 mm, prior to heat welding or mechanical jointing. c. have a permeability of less than $1x10^{-9}$ m/s; and d. be capable of maintaining that permeability for the working life of the pond. b) Constructed to a capacity of 3,300 m^3. c) Batter slopes for the liners on the sides of ponds must not exceed 1:3 vertical to horizontal elevation to ensure compaction and stability of the dam liner.
4) green waste surge area	For the surge green waste hardstand, located adjacent to the supplementary water balance ponds the following specification will apply: a) Sand sub-grade: In-situ sand subgrade will be graded and compacted to 95% MDD. b) Gravel base-course: A 150 mm thick layer of compacted gravel. Maximum particle size to be approximately 50 mm. Compacted to 95% MDD.
5) Loading Ramp	The loading ramp will be constructed such that: a) Have a 1.8 m high tabletop of 6 m width and 5 m length and will be constructed on top of the completed hardstand. The access ramp (to the loading ramp) will be an additional 10 m long. b) The loading ramp walls will be constructed with 350 mm wide mass limestone blocks, thickened to 1,140 mm wide at the base. Infill material will be locally sourced gravel, which will be laid and compacted progressively in 300 mm thick layers. c) The loading ramp will include a 'slip lane' of 5 m width to allow trucks to move off the main thoroughfare route. The slip lane will be surfaced with asphalt to protect the gravel pavement.
6) Washout Bay	The washout bay will be constructed such that: a) It will share a common (rear) wall with the loading ramp (1.8 m high). b) The other walls will be constructed with 350 mm wide mass limestone blocks or reinforced concrete equivalent. Side walls will be tapered from 1.8 m high to 0.6 m high. c) Achieve a permeability of less than $1x10^{-9}$ m/s.

1.2.4 The Works Approval Holder must conduct the following construction quality assurance testing to ensure that the Works specified in Column 1 of Table 1.2.3 meet or exceed the specifications in Column 2 of Table 1.2.3 for the infrastructure in each row of Table 1.2.3.

Table 1.2.3: Construction Quality Assurance testing

Column 1	**Column 2**
Infrastructure	**Specifications (testing criteria)**
1) Hardstands	The following compaction testing criteria will apply: • Sub-grade: Perth Sand Penetrometer, 1 test per 1,000 m^2 • Gravel sub-base: nuclear tests, 1 test per 4,000 m^2 • Gravel base-course: nuclear tests, 1 test per 2,000 m^2 • Bituminous concrete: Marshall Field Density tests, 1 test per 4000 m^2. Bituminous emulsion seal tests will be undertaken to the following criteria: • Class of bitumen and bitumen content tested to Australian Standard AS1160 and MRWA bitumen specification 511 - one test per batch. • Spray run sheet for bitumen application rates at 1.3 l/m^2 or 7 mm and 1.6 l/m^2 for 10 mm – one test per day • Permeability test – one test per run sheet – field standing head permeability test. Asphalt Concrete layer tests will be undertaken to the following criteria: • Batch sample of asphalt mix to Specification APWEA AAPA Rev 3 conducted at the manufacturing plant prior to delivery - one test per day. • Core sampling for density and thickness (Field Marshall Test) - one test per 4000 m2. Survey: • As-constructed survey of all completed hardstands, drains, roads and dams. Hardstands will be certified by an independent engineer to validate design, construction, and permeability after completion, with validation by compaction tests, as-constructed survey, and permeability testing
Pond liners	For the construction of new ponds, the following liner testing criteria will apply: • All seams and joins should be constructed and tested as watertight over their full length using a vacuum test unit, air pressure testing or other approved method used in the HDPE membrane industry. Liners are to be certified by an independent engineer to validate design, specification, construction, and permeability after completion in accordance with Table 1.2.2

1.2.5 The Works Approval Holder must provide evidence of planning approval for the works at least 14 days prior to the commencement of the works.

2 Information

2.1 Reporting

2.1.1 Subject to Condition 1.2.3, the Works Approval Holder must, at least 21 days prior to the commencement of the Works, provide to the CEO detailed engineering and construction drawings and plans that are certified by a suitably qualified professional engineer that each item of infrastructure specified in Column 1 of Table 1.2.2 meets or exceeds the specifications in Column 2 of Table 1.2.2 for the infrastructure in each row of Table 1.2.2.

2.1.2 The Works Approval Holder must submit a construction compliance document to the CEO, following the construction of the works.

2.1.3 The Works Approval Holder must ensure the construction compliance document:

(a) is certified by a suitably qualified professional engineer or builder that each item of infrastructure specified in Condition 1.2.2, Table 1.2.2 has been constructed and tested in accordance with the Conditions of the Works Approval with no material defects; and

(b) be signed by a person authorised to represent the Works Approval Holder and contain the printed name and position of that person within the company.

Schedule 1: Maps

Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.

Proposed Site Plan