

Your ref:

L6756/1996/11

Our ref:

2010/002299 Chris Malley

Enquiries: Phone:

9411 1706 9419 5897

Fax:

Email:

Chief Executive Officer Shire of Waroona PO Box 20 WAROONA WA 6215

Dear Sir/Madam

ENVIRONMENTAL PROTECTION ACT 1986 - LICENCE L6756/1996/11

Buller Road Refuse Disposal Site Lot 1701 on Plan 214632 Buller Rd Waroona WA 6215

Your application for a licence under Part V of the *Environmental Protection Act 1986* for the above premises has been issued subject to the attached conditions. Enclosed is your licence number L6756/1996/11.

If you are concerned about, or object to any of the conditions you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the licence. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Under Section 58 of the *Environmental Protection Act 1986*, it is an offence to contravene a licence condition. This offence carries a penalty of up to \$125,000, with a daily penalty of up to \$25,000.

If you have any questions relating to the licence or licence conditions, please contact Chris Malley of the Kwinana office on 9411 1706.

Yours sincerely

Peter Vasel

Manager, Works Approval & Emisions Licensing

Thursday, 1 September 2011

enc: Licence L6756/1996/11

DIRECTOR GENERAL AND ENVIRONMENTAL SERVICES DIVISIONS: The Atrium, 168 St Georges Terrace, Perth, Western Australia 6000 Phone: (08) 6467 5000 Fax: (08) 6467 5562 TTY: 1880 555 630

PARKS AND CONSERVATION SERVICES DIVISIONS: Executive: Corner of Australia II Drive and Hackett Drive, Crawley, Western Australia 6009
Phone: (08) 9442 0300 Fax: (08) 9386 1578 Operations: 17 Dick Perry Avenue, Technology Park, Kensington, Western Australia 6151

Phone: (08) 9219 8000 Fax: (08) 9334 0498 TTY: 9334 0546

POSTAL ADDRESS FOR ALL DIVISIONS: Locked Bag 104, Bentley Delivery Centre, Western Australia 6983

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Environmental Protection Act 1986

LICENCE

LICENCE NUMBER: L6756/1996/11

FILE NUMBER: 2010/002299

NAME OF OCCUPIER:

Shire of Waroona

ADDRESS OF OCCUPIER:

52 Hesse Street Waroona WA 6215

NAME AND LOCATION OF PREMISES:

Buller Road Refuse Disposal Site Lot 1701 on Plan 214632 Buller Road Waroona WA 6215 (as depicted in Attachment 1)

Environmental Protection Regulations 1987 CLASSIFICATION(S) OF PREMISES:

Category 61: Liquid waste facility

Category 64: Class II or III putresble landfill site

COMMENCEMENT DATE OF LICENCE: Friday, 9 September 2011

EXPIRY DATE OF LICENCE: Thursday, 8 September 2016

CONDITIONS OF LICENCE:

As described and attached:

DEFINITIONS (24)

GENERAL CONDITIONS (7)

AIR POLLUTION CONTROL CONDITIONS (2)

WATER POLLUTION CONTROL CONDITIONS (6)

SOLID WASTE CONDITIONS (1)

ATTACHMENTS (2)

Officer delegated under Section 20 of the *Environmental Protection Act 1986*

Date of Issue: Thursday, 1 September 2011

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CONDITIONS OF LICENCE

DEFINITIONS

In these conditions of licence, unless inconsistent with the text or subject matter:

'Asbestos' means as defined in the Environmental Protection (Controlled Waste) Regulations 2004;

'APHA-AWWA-WEF' means American Public Health Association (APHA), the American Water Works Association (AWWA) and the Water Environment Federation (WEF);

'Asbestos Waste' means Special Waste Type 1 as defined in the current version of the "Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009)";

'AS/NZS 5667.1' means the current version of Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of sample;

'AS/NZS 5667.11' means the current version of Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of groundwaters;

'Authorised Person or Inspector' means an authorised person or inspector as defined in sections 87 and 88 respectively of the *Environmental Protection Act 1986*;

'Clean Fill', 'Inert Waste Type 1', 'Inert Waste Type 2', 'Putrescible Waste' and 'Special Waste Type 1' means those material as defined in the current version of 'Landfill Waste Classifications and Waste Definitions 1996' (As amended), Department of Environment;

'Cover Material' means subsoil or other inert soil or sand material used for covering of waste;

'Director' means Director, Environmental Regulation Division of the Department of Environment and Conservation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*:

'Director' for the purposes of correspondence means:

Regional Leader, Swan Region

Department of Environment and Conservation

PO Box 454

Telephone: (08) 9411 1777

KWINANA WA 6966

Facsimile: (08) 9419 5897:

'Designated Burning Area' means an area of the premises that has been designated by the occupier of the premises as a Designated Burning Area and which:

- (a) is at least 50 metres from the boundary of the premises:
- (b) has no flammable material on it, other than the Greenwaste and live trees, for a radius of 50 metres;
- (c) is positioned in the area of the site where waste (other than the Greenwaste to be burnt) has not been deposited; and
- (d) is at least 500 metres from any person's residence or place of employment (other than the landfill site) or an educational institution, hospital or other public place;

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'Fire Control Officer' means a person who holds current and recognised qualifications in fire fighting and fire control as are specified in the licence and that person is appointed to the position of Fire Control Officer by the licensee;

'Grease Trap Waste' means the organic waste generated at food manufacturing and preparation premises which typically contains 2% to 5% grease (which includes fats, oils waxes and soaps) and 20 to 30% sludge with a high organic content and which is collected by a grease trap that separates the greases and sludges from the wastewater stream;

'Greenwaste' means biodegradable waste comprising plants and their component parts such as flower cuttings, hedge trimmings, branches, grass, leaves, plants, seeds, shrub and tree loppings, tree trunks, tree stumps and similar materials and includes any mixture of those materials;

'Hardstand' means an area with a prepared (sealed) or natural surface which has a low permeability (i.e. having a hydraulic conductivity of less than 10⁻⁹ metres per second at unity hydraulic gradient) which prevents escape of any liquids from the surface into the subsoil and groundwater;

'material containing asbestos' means as defined in the Environmental Protection (Controlled Waste) Regulations 2004;

'mAHD' means metres above (or below) the Australian Height Datum;

'mg/L' means milligrams per litre;

'µS/cm' means microSiemens per centimetre:

'NATA' means the Australian National Association of Testing Authorities;

'Septage Treatment Ponds' means the ponds depicted in Attachment 1;

'Septage Waste' means material pumped out from a septic tank during desludging comprising partially decomposed scum, sludge and liquid;

'Surface Water Body' means any natural or artificial water course or wetland (as those terms are defined in the *Rights in Water Irrigation Act 1914*) dam or other impoundment and any other surface water exposed to the atmosphere; and

'Tipping Area' means the area of the premises where waste currently being brought to the premises is being deposited;

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GENERAL CONDITIONS

WASTE ACCEPTANCE AND MANAGEMENT

- G1 The licensee shall accept and bury only the following types of waste at the premises:
 - (i) clean gill;
 - (ii) inert waste type 1;
 - (iii) inert waste type 2;
 - (iv) putrescible wastes;
 - (v) special waste type 1; and
 - (vi) other wastes that comply with Class II criteria in the current version of the document entitled 'Landfill Waste Classification and Waste Definitions 1996' (As amended), Department of Environment.

DISPOSAL OF ASBESTOS WASTE

- G2 The licensee shall ensure that asbestos waste or material containing asbestos is deposited at the premises according to the following requirements:
 - (i) accept only asbestos waste or material containing asbestos which is sealed in double-lined or double bagged, heavy duty plastic sheeting of at least 0.2 millimetres thickness;
 - (ii) accept only asbestos waste or material containing asbestos, which is labelled or marked with the words "CAUTION ASBESTOS" in letters not less than 50 millimetres high;
 - (iii) as soon as practicable and before compaction, cover the asbestos waste or material containing asbestos with a layer of soil at least 300 millimetres thick or with a layer of dense, inert and incombustible material at least 1 metre thick;
 - (iv) record as grid references on a premises plan all locations used for the disposal of asbestos waste or material containing asbestos and keep this plan as a permanent record;
 - (v) keep a permanent register of each load of asbestos waste or material containing asbestos deposited at the premises, including the date, the name of person that deposited the asbestos or material containing asbestos and the vehicle registration number;
 - (vi) witness the covering of the asbestos waste or material containing asbestos and sign the register referred to above within two hours of the covering taking place;
 - (vii) not deposit any asbestos waste or material containing asbestos within two metres of the final tipping surface of the landfill;
 - (viii) operate the landfill such that any existing asbestos waste or material containing asbestos deposited at the premises remains undisturbed; and
 - (ix) make all records available for viewing or copying by an authorised person or inspector upon request.

MANAGEMENT OF LANDFILL ACTIVITIES

- G3 The licensee shall ensure that:
 - (i) no waste is placed closer than 35 metres to the premises boundary;
 - (ii) waste is placed in a defined trench or within an area enclosed by earthen bunds:
 - (iii) the tipping area is restricted to a maximum linear length of 30 metres;
 - (iv) waste in the tipping area is covered in accordance with Table 1;

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- (v) there is enough cover material to cover waste in accordance with Condition G3(iv), at least twice;
- (vi) waste is covered with cover material;
- (vii) waste is totally covered so that no waste is left exposed; and
- (viii) the tipping area is no greater than two metres in height.

Table 1: Frequency of covering waste

Tonnes of waste received per year	Frequency waste is to be covered
Less than 500 tonnes	Monthly
Between 500 and 2 000 tonnes	Fortnightly
Between 2 000 and 5 000 tonnes	Weekly

FENCING

- G4(a) The licensee shall erect and maintain a security mesh fence around the whole of the perimeter of the premises of the active landfill area, except where there is a lockable gate.
- G4(b) The licensee shall ensure that any entrance to the premises is securely locked when the premises are unattended.
- G4(c) The licensee shall ensure that weekly inspections of the fence and gates referred to in condition G4(a) are undertaken and that any damage to the fence is repaired within two (2) working days of its discovery.

WIND BLOWN WASTE

- G5(a) The licensee shall ensure wind blown waste is contained within the boundaries of the active landfill area by maintaining litter screens and regularly covering and compacting waste.
- G5(b) The licensee shall inspect litter screens no less than once per week to ensure their integrity and if damaged, repair them within two (2) working days.
- G5(c) The licensee shall ensure that any wind blown waste is removed from the premises fences and roads, and any wind blown waste emanating from the premises is collected and removed on a weekly basis or more frequently when directed in writing by the Director.

MONITORING AND REPORTING

- G6(a) The licensee shall provide to the Director by 31 March each year, an Annual Environmental Report for the period beginning 1 January the previous year and ending on 31 December in that year.
- G6(b) The licensee shall ensure that the Annual Environmental report require by condition G6(a) includes, but is not necessarily limited to:
 - (i) results of the groundwater monitoring program obtained in accordance with Table 2 of condition W4(a);
 - (ii) a graphical comparison of data reported in condition G6(b)(i) against historical data obtained under this licence;
 - (iii) a summary of any fires at the premises;

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- (iv) a summary of measures taken to suppress dust and control windblown waste at the premises; and
- (v) the total volumes of each of grease trap waste and septage waste disposed at the premises in accordance with condition W5.
- The licensee shall by 31 March in each year, provide to the Director an annual audit compliance report in the form in attachment 2 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the Premises, during the period beginning 1 January the previous year and ending on 31 December in that year.

AIR POLLUTION CONTROL CONDITIONS

DUST - GENERAL REQUIREMENT

A1 The licensee shall suppress dust from the open landfill face or trench, stockpiled areas and transport activities, to ensure that no visible dust crosses the boundary of the premises.

BURNING OF WASTE

- A2(a) The licensee shall not burn or allow the burning of waste that is not greenwaste on the premises.
- A2(b) If greenwaste is burnt on the premises, the licensee, or a person nominated by the licensee, shall:
 - (i) ensure the greenwaste is dry and seasoned for at least two months before being
 - (ii) ensure the greenwaste is burnt in a designated burning area;
 - (iii) provide an adequate water supply and distribution system to prevent fires from escaping beyond the greenwaste area;
 - (iv) burn greenwaste in a manner to minimise the generation of smoke;
 - (v) burn greenwaste in windrows or trenches;
 - (vi) burning does not commence before 8 a.m. and the Fire Control Officer for the landfill site declares the area safe by 12 noon on the same day; and
 - (vii) ensure that, from the time burning commences until the Fire Control Officer for the premises declares the area safe;
 - (a) a fire fighting vehicle carrying at least 500 litres of water, fitted with at least 30 metres of 19 millimetres diameter rubber hose and with a pump capacity capable of delivering a minimum of 250 litres of water per minute at a minimum of 700 kPA through a nozzle capable of projecting water by spray or by jet; and
 - (b) 2 persons, who have such qualifications in fire fighting as are approved.
- A2(c) The licensee shall ensure that there are appropriate procedures in place at the premises so that any unauthorised fire is promptly extinguished.
- A2(d) The licensee shall ensure that an unauthorised fire on the premises is extinguished as soon as possible.

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- A2(e) The licensee shall provide the Director with a report on an unauthorised fire within 14 days of the fire and include:
 - (i) details of the date, time and location of the fire;
 - (ii) the time the fire was declared safe by the Fire Control Officer for the premises; and
 - (iii) the cause, or suspected cause, of the fire.

WATER POLLUTION CONTROL CONDITIONS

STORMWATER MANAGEMENT

- W1(a) The licensee shall direct uncontaminated stormwater run-off, such as water from roofs and site drainage, away from the filled and peripheral areas and associated sumps or drains into dedicated stormwater drains.
- W1(b) The licensee shall ensure stormwater drains on the premises are kept clear of waste to allow for their effective use.
- W1(c) The licensee shall direct all stormwater run-off into an infiltration basin on the premises.

BUFFERS TO GROUND AND SURFACE WATERS

- W2(a) The licensee shall maintain an undisturbed separation distance of at least three (3) metres between the base of the current and future waste disposal areas and the highest level of the groundwater.
- W2(b) The licensee shall maintain a minimum distance of at least 100 metres between the waste disposal site and any surface water body.

GROUNDWATER BORES

W3 The licensee shall maintain monitoring bores at the premises, designated MB 1, MB 2, MB 3, MB 4 and MB 5 at the locations depicted in Attachment 1.

GROUNDWATER MONITORING

W4(a) The licensee shall collect and have analysed representative groundwater samples from the monitoring sites specified in Column 1 of Table 2, at the frequencies specified in Column 2 of Table 2, for the parameters specified in Column 3 of Table 2, using the methods specified in Column 4 of Table 2 and reported in the units specified in Column 5 of Table 2.

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Table 2 - Groundwater monitoring

Column 1	Column 2	Column 3	Column 4	Column 5
Monitoring Site	Sampling frequency	Parameters to be measured	Methods	Units
Monitoring Bores MB 1 & MB 2 (as depicted in Attachment 1)	Annually (April to May)	pH, Conductivity, Nitrate- nitrogen, Ammonia-nitrogen, Total Nitrogen, Total Potassium, Chloride, Total Dissolved Solids, Lead, Manganese, Copper, Chromium, Nickel, Zinc, Cadmium and Standing Water Level.	AS/NZS	All in mg/L except pH (pH units), conductivity (µS/cm) and Standing Water Level (mAHD)
Monitoring Bores MB 3, MB 4 & MB 5 (as depicted in Attachment 1)		Total Nitrogen, Total		

W4(c) The licensee shall ensure that all water samples are analysed in a laboratory with NATA accreditation for the analyses specified. The samples shall be analysed in accordance with the current "Standard Methods for Examination of Water and wastewater, APHA-AWWA-WEF".

ACCEPTANCE OF LIQUID WASTE

- W5 The licensee shall only dispose of the following liquid wastes to the septage treatment ponds at the premises:
 - (i) septage waste; and
 - (ii) grease trap waste.

MAINTENANCE OF WASTEWATER TREATMENT PONDS

- W6 The licensee shall manage the septage treatment ponds in a manner such that:
 - (i) uncontaminated stormwater runoff shall not enter the septage treatment ponds or cause erosion of the outer pond embankments;
 - (ii) extreme rainfall events [1 in 10 year, 72 hour duration events] do not cause overtopping of the ponds:
 - (iii) the minimum depth of the anaerobic septage treatment ponds is three (3) metres;
 - trapped overflows shall be maintained on the discharge from the septage treatment ponds to prevent carry over of surface floating matter to subsequent septage treatment ponds;
 - (v) a minimum freeboard of 300 millimetres is maintained;
 - (vi) there is no discernible seepage loss from the outer septage treatment pond embankments; and
 - (vii) appropriate measures are taken to minimise floating debris in the septage treatment ponds and prevent vegetation (emergent or otherwise) from growing in the pond wastewater, or on the pond embankments.

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SOLID WASTE CONDITIONS

BIOSOLIDS MANAGEMENT

- S1 The licensee shall ensure that sludge and solid waste removed from the septage treatment ponds is stored on-site on a Hardstand area or Hardstand drying bed which:
 - is adequately bunded to prevent surface runoff of leachate or sludge from crossing the boundary of the premises; and
 - (ii) returns sludge leachate from the storage area back to the septage treatment ponds.

Officer delegated under Section 20 of the Environmental Protection Act 1986

Date of Issue: Thursday, 1 September 2011



SECTION A

rading as: teporting period: to TATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS Were all conditions of licence complied with within the reporting period? (please tick the appropriate box) Please proceed to Section C Please proceed to Section B	Licence Number:		Licence File Number:
TATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS Were all conditions of licence complied with within the reporting period? (please tick the appropriate box) S Please proceed to Section C Please proceed to Section B	Company Name:		ABN:
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Were all conditions of licence complied with within the reporting period? (please tick the appropriate box) By Please proceed to Section C Please proceed to Section B Description of the person of			
appropriate box) s	STATEMENT OF	COMPLIANCE WITH LICENCE CONDIT	IONS
s ☐ Please proceed to Section B Please proceed to Section B page must be initialed by the person(s) who signs Section C of this annual audit compliance	. Were all condition	ons of licence complied with within the report	ing period? (please tick the
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SECTION B - DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

a) Licence condition not complied with?	
b) Date(s) when the non compliance occurred, if applicab	le?
c) Was this non compliance reported to DEC?	
☐ Yes ☐ Reported to DEC verbally Date ☐ Reported to DEC in writing Date	□ No
d) Has DEC taken, or finalised any action in relation to the	e non compliance?
e) Summary of particulars of non compliance, and what w	as the environmental impact?
f) If relevant, the precise location where the non compliance	ce occurred (attach map or diagram)
g) Cause of non compliance	
h) Action taken or that will be taken to mitigate any advers	e effects of the non compliance
i) Action taken or that will be taken to prevent recurrence o	f the non compliance

SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this Annual Audit Compliance Report is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact

the licensing officer for your premises.

If the licence holder is	l pro	The Annual Audit Compliance Report must be signed and certified:
An individual		by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the
Armaividual		Department of Environment and Conservation to sign on the licensee's behalf.
A firm or other		by the principal executive officer of the licensee; or
unincorporated company		by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
		by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or
		by two directors of the licensee; or
A corporation		by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is
, , , , , , , , , , , , , , , , , , , ,		also the sole company secretary – by that director, or
		by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is
		approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
A public authority	D	by the principal executive officer of the licensee; or
(other than a local government)		by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
a local government		by the chief executive officer of the licensee; or
		by affixing the seal of the local government.

It is an offence under section 112 of the Environmental Protection Act 1986 for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE:	SIGNATURE:
NAME: (printed)	NAME: (printed)
POSITION:	POSITION:
DATE:/	DATE:/
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SEAL (If signing under seal)