



Licence No. 14463

**WASTE MANAGEMENT PACIFIC
(S.A.) PTY LIMITED**

Inkerman Road, INKERMAN SA 5550

ISSUED:

01 Aug 2013

EXPIRY:

31 Jul 2018

ACN:

097 829 644

Environmental Authorisation
under Part 6 of the
*Environment Protection
Act 1993*

**South Australian
Environment
Protection Authority**
GPO Box 2607
Adelaide SA 5001
Tel: 08 8204 2004

EPA

Environment Protection Authority

LICENCE NUMBER: 14463

LICENSEE DETAILS

Licence Holder: WASTE MANAGEMENT PACIFIC (S.A.) PTY LIMITED

ACN: 097 829 644

Registered Address: TO BE PROVIDED, MILTON QLD 4064

Premises Address(es): Inkerman Road, INKERMAN SA 5550

LICENSED ACTIVITIES

The Licensee is authorised to undertake, at the location(s) shown above, the following prescribed activities of environmental significance under Schedule 1 Part A of the Act, subject to the conditions in this Licence.

3(3) Waste or recycling depots (solid waste for on-site disposal)

TERMS OF LICENCE

Commencement Date: 01 Aug 2013

Expiry Date: 31 Jul 2018

Amended Date: 16 May 2017

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What is an EPA licence?

The EPA imposes conditions through a licence to regulate activities that have the potential to harm the environment. Any person or company undertaking these types of activities may need an EPA licence, as required by the [Environment Protection Act 1993](#). The term of a licence is generally five years, but can vary from one to 10 years based on the EPA's assessment of the risk or duration of the activity.

What is the purpose of a licence?

A licence is an enforceable agreement between the EPA and the licensee that sets out the minimum acceptable environmental standards to which the licensee must perform. We consider how high the environmental risk is likely to be from the licensed activities, when setting conditions of the licence. Subsequently, environmental licences are unique and may be developed to focus on any or all of the following objectives:

- documentation of the requirements of a licensee under existing regulations
- facilitating the attainment of environmental performance standards of the licensee
- facilitating the alignment of the behaviour of the licensee with the core environmental objectives required under the *Environment Protection Act 1993* and related policies

The Act also requires that all reasonable and practical measures are taken to protect, restore and enhance the quality of the environment, including requiring persons engaged in polluting activities to progressively make environmental improvements. This will affect how the minimum acceptable standards are determined and reflected in licences.

Compliance with the licence

It is serious offence to breach an EPA licence and could result in a maximum fine of \$120,000 for bodies corporate. It is also an offence to provide false or misleading information and can result in a maximum fine of \$60,000 for bodies corporate.

The EPA also uses a number of enforcement tools to manage non-compliance with licence conditions in accordance with the [Compliance and Enforcement Guideline](#). The EPA can vary the conditions of this licence in accordance with section 45 of the Act. This licence can be suspended, cancelled or surrendered during the term of the licence in accordance with sections 55 and 56 of the Act.

Incident notification

The Licensee must report to the EPA (on EPA emergency phone number 1800 100 833) all incidents causing or threatening serious or material environmental harm, upon becoming aware of the incident, in accordance with section 83 of the Act. In the event that the primary emergency phone number is out of order, the Licensee should phone (08) 8204 2004.

Responsibilities under Environment Protection Legislation

The Licensee must be aware of and comply with their obligations under;

- The *Environment Protection Act 1993*
- The *Environment Protection Regulations 2009*
- The Environment Protection Policies made under the *Environment Protection Act 1993*
- The requirements of any National Environment Protection Measure which operates as an Environment Protection Policy under the *Environment Protection Act 1993*

Public Register Information

The EPA maintains a Public Register that is available to the public. Information maintained includes issued Environmental Authorisations (Licences, Exemptions & Works Approvals), Emergency Authorisations and various submitted Applications. Should the conditions of an Environmental Authorisation require that the Holder submit a report or other information to the EPA, then that submitted information is made available on the Public Register subject to commercial confidentiality. Endorsed Public Register information may be available on the EPA website.

Definitions

Unless the contrary intention appears, terms used in this licence that are defined in the Act (including any regulations or environment protection policies made pursuant to the Act) have the respective meanings assigned to those terms by the Act.

THE ACT: The *Environment Protection Act 1993*

PREMISES: The whole of the land comprised in Titles Register - Certificate of Title, Crown Lease and Crown Record:

CT5417/336
CT5417/367
CT5401/364
CT5974/868
CT5974/869
CT5974/867

AUTHORISATION FEE PAYMENT DATE: means the anniversary of the grant or renewal of this authorisation.

CONSIGNMENT AUTHORISATION: as defined in the National Environment Protection (Movement of Controlled Waste between States and Territories) Measure, 'Consignment Authorisation' means an approval which includes a unique identifier granted by an agency or a facility delegated by an agency in the jurisdiction of destination to allow the movement of Controlled Waste.

CONTROLLED WASTE: means any wastes of a category listed in Column 1 of the Table in Schedule 1 that has 1 or more characteristics listed in the Table in Schedule 2 of the Environment Protection (movement of Controlled Waste) Policy 2014.

DAILY COVER: means soil, clay, silt, sand, gravel, rock, concrete or brick (or any combination thereof) which does not exceed 200mm in any dimension and does not exceed the chemical criteria for Intermediate Waste Soil.

E-WASTE: means waste electrical and electronic equipment which is dependent on electric currents or electromagnetic fields in order to function (including all components, subassemblies and consumables which are part of the original equipment at the time of discarding).

NOTE. For example e-waste may include:

- a. Consumer/entertainment electronics (e.g. televisions, DVD players and tuners),
- b. Devices of office-, information- and communications technology (e.g. computers, telephones and mobile phones),
- c. Household appliances (e.g. fridges, washing machines and microwaves),
- d. Lighting devices (e.g. desk lamps),
- e. Power tools (e.g. power drills) with the exclusion of stationary industrial devices,
- f. Devices used for sport and leisure including toys (e.g. fitness machines and remote control cars).

INTERIM COVER: means a compacted layer of at least 0.30 metres of soil for sealing solid waste that has been disposed and to which no additional waste will be added within the proceeding 30 days (refer to Tables 1 and 2 for physical and chemical characteristics, attached to this licence).

INTERMEDIATE LANDFILL COVER: means intermediate landfill cover as defined in conditions of this authorisation and the Intermediate Landfill Cover & Low Level contaminated Waste attachment to this licence.

LANDFILL GAS: means gases arising from the decomposition of wastes deposited or disposed of to landfill, with methane and carbon dioxide being major constituents.

LEACHATE: means a liquid that has percolated through and/or been generated by decomposition of waste material. It includes water that comes into contact with waste and is potentially contaminated by nutrients, metals, salts and other soluble or suspended components and/or products of decomposition of the waste.

NON-FRIABLE ASBESTOS: means asbestos-containing material in which the asbestos fibres are bonded by cement, vinyl, resin or other similar material, for example asbestos cement.

Advice on the requirements for handling and transport of this waste can found in EPA Guideline 414/05 - Wastes containing asbestos - removal, transport and disposal

SUITABLY QUALIFIED CONSULTANT: means a person who holds relevant qualifications, has demonstrated professional experience and expertise encompassing an appropriate range of competencies, and is either a full member or is eligible for full membership of one of the following or equivalent professional organisations:

1. The Institution of Engineers Australia
2. The Association of Consulting Engineers Australia
3. The Australian Contaminated Land Consultants Association Incorporated.

THE AUTHORITY: means the Environment Protection Authority established under Division 1 of Part 3 of the Act.

WASTE: As defined under the Environment Protection Act 1993, Waste means -

(a) any discarded, rejected, abandoned, unwanted or surplus matter, whether or not intended for sale or for recycling, reprocessing, recovery or purification by a separate operation from that which produced the matter; or

(b) anything declared by regulation (after consultation under section 5A) or by an environment protection policy to be a waste, whether of value or not.

WASTE FILL: means waste consisting of clay, concrete, rock, sand, soil or other inert mineralogical matter in pieces not exceeding 100 millimetres in length and containing chemical substances in concentrations (calculated in a manner determined by the EPA) less than the concentrations for those substances set out in Regulation 3 - Interpretation, but does not include waste consisting of or containing asbestos or bitumen.

The Waste Fill concentration criteria as specified in Regulation 3 - Interpretation, contained within the Environment Protection Regulations 2009 - is attached.

Acronyms

EPA: means Environment Protection Authority

AHD: means Australian Height Datum

DB(A): means decibel A-weighted noise.

EIP: means Environment Improvement Programme.

LEMP: means Landfill Environment Management Plan.

NATA: means National Association of Testing Authorities.

NEPM: means National Environment Protection Measure.

PCA: means potentially contaminating activities, as detailed in Regulation 50 of the Environment Protection Regulations 2009.

WTC: means Waste Transport Certificate.

WTF: means Waste Tracking Form.

Conditions of Licence

The Licensee is authorised to conduct the prescribed activities as described in this Licence at the Premises nominated, subject to the following conditions:

1 CONTROL OF EMISSIONS

1.1 DUST (330 - 43)

The Licensee must:

- 1.1.1 Maintain all trafficable areas to prevent the build up of waste, mud, dust or other debris.
- 1.1.2 Suppress dust build-up during dry or windy weather.
- 1.1.3 Implement measures to minimise the generation of dust during the unloading of any waste.
- 1.1.4 Take all reasonable and practicable measures to prevent the escape of dust from the Premises.

1.2 NOISE (325 - 38)

The Licensee must ensure:

- 1.2.1 that close proximity and low impact directional reverse beepers are installed and utilised on all mobile plant associated with waste disposal operations on the Premises; and
- 1.2.2 that noise levels from activities at the Premises do not exceed 40 dB(A) between the hours of 10 p.m. and 7 a.m. on any day at the nearest sensitive receiver when measured (and adjusted) in accordance with the Environment Protection (Noise) Policy 2007.

1.3 ODOUR (330 - 154)

The Licensee must take all reasonable and practicable measures to prevent the escape of odour from the Premises.

2 WASTE MANAGEMENT

2.1 ALTERNATIVE LITTER CONTROL SYSTEM (U - 672)

The Licensee must:

- 2.1.1 dispose of all waste within the Somernett litter control system or an alternative litter control system that has been approved in writing by the EPA (which consent has not been revoked);
- 2.1.2 ensure that all reasonable and practicable measures are taken to minimise the escape of litter from the Somernett litter control system or any alternative litter control system approved for use by the EPA; and

- 2.1.3 ensure that any litter that escapes the Somernet litter control system or any alternative litter control system is collected and disposed of on or before the close of each day's operation.

2.2 E-WASTE MANAGEMENT (67 - 1027)

The Licensee must ensure that e-waste is stored at the Premises in the following manner:

- 2.2.1 on an impermeable surface; and
- 2.2.2 undercover to prevent the entry of stormwater into that material.

NOTES

The Licensee should store e-waste separately from other waste and take care in its handling to maximise its potential for reuse or recycling.

2.3 PERMITTED WASTES - RECEIPT AND/OR DISPOSAL (67 - 11)

The Licensee must

- 2.3.1 ONLY RECEIVE and/or DISPOSE of waste materials at the Premises that are identified on the 'Schedule - Permitted Wastes' attachment to this licence; and
- 2.3.2 submit written application to the EPA to amend waste materials listed on the 'Schedule'.

NOTES

The EPA may during the term of this licence impose or vary the conditions of this authorisation upon approval of an application made in accordance with this condition.

2.4 RECEIPT OF CONTROLLED WASTE FROM A STATE OR TERRITORY OTHER THAN SOUTH AUSTRALIA (67 - 58)

- 2.4.1 Subject to this licence, the Licensee must not receive any Controlled Waste, list attached to this licence, from a State or Territory other than South Australia unless it is accompanied by a WTC and:
- a the Licensee has received information from the Producer of that waste that a Consignment Authorisation has been issued by the Authority for that waste;
 - b the producer has completed Part 1 of that WTC;
 - c the transporter has completed Part 2 of that WTC; and
 - d the Licensee completes Part 3 of that WTC.

- 2.4.2 The Licensee must:
- a retain the yellow copy of WTCs for no less than 12 months;
 - b provide the white copy of the WTC (with parts 1, 2 and 3 completed) to the Authority within seven days of receipt of that waste;
 - c complete the white tear off at the bottom of the WTC and provide it to the producer of that waste within seven days of receipt of that waste; and
 - d complete the yellow tear off at the bottom of the WTC and provide it to the appropriate environmental agency in the state/territory of origin of that waste seven days of receipt of that waste.

2.5 RECEIPT OF LOW LEVEL CONTAMINATED WASTE (67 - 931)

The Licensee must not receive Low Level Contaminated Waste (LLCW) at the facility unless:

- 2.5.1 the LLCW has been characterised according to the requirements set out in Schedule 3 of this licence, and environmental certification has been provided in accordance with Schedule 4 of this licence; and
- 2.5.2 the LLCW has been produced from a site, which has been assessed in accordance with Schedules A and B of the Assessment of Site Contamination NEPM, and environmental certification has been provided in accordance with Schedule 4 of this licence.

2.6 RECEIPT OF TREATMENT PLANT RESIDUES (67 - 930)

The Licensee must not receive Treatment Plant Residues (TPR's) at the Premises unless:

- 2.6.1 the TPR's have been assessed in accordance with the 'Environmental Characterisation of Waste' attachment to this licence; and
- 2.6.2 an environmental certification has been provided in accordance with the 'Environmental Certification' attachment to this licence.

3 OPERATIONAL MANAGEMENT

3.1 CELL CAPPING (67 - 1398)

The Licensee must:

- 3.1.1 submit a design specification for the capping of stage 3 of the landfill and future stages required to be capped to the EPA three months prior to reaching the final filling height for each stage; and

- 3.1.2 not construct the capping unless the design specification has been approved in writing by the EPA.

3.2 CELL CONSTRUCTION (67 - 1397)

The Licensee must:

- 3.2.1 only construct waste disposal cells in accordance with a design specification that has been approved in writing by the EPA; and
- 3.2.2 not dispose of any waste into any cell unless an as constructed report has been submitted and approved in writing by the EPA.

3.3 COMPLAINTS REGISTER (300 - 20)

The Licensee must:

- 3.3.1 maintain a register of complaints received regarding the Licensee's operations that sets out:
- a the date and time that the complaint was reported;
 - b details of the complaint;
 - c the name and address of the complainant (if permitted by the complainant);
 - d the date and time of the events giving rise to the complaint ;
 - e the likely cause of the events giving rise to the complaint;
 - f an estimate of the temperature, wind speed, wind direction and rainfall at the time of the events giving rise to the complaint;
 - g any action taken in response to the complaint and to prevent a recurrence of the events giving rise to the complaint; and
- 3.3.2 retain the register for the duration of this licence.

3.4 CONTAMINATED WASTE & RESIDUES MANAGEMENT (67 - 1401)

The Licensee must dispose of low level contaminated waste and/or treatment plant residues within the low level contaminated waste cell.

NOTES

Low Level Contaminated Waste includes Low Level Contaminated Soil.

3.5 DAILY COVER (S - 150)

The Licensee must, before the close of each days operations cover all exposed waste with no less than 150mm of:

- 3.5.1 Daily Cover; or

3.5.2 an Alternative Daily Cover as approved in writing by the EPA.

3.6 ENVIRONMENTAL CERTIFICATES (67 - 932)

The Licensee must keep in a secure place all written certificates received pursuant to Conditions 67-930 and 67-931 of this licence for a period not less than 12 months from the date of that document.

3.7 FENCING (67 - 700)

The Licensee must maintain a fence around the Premises that is suitable for preventing unauthorised access.

3.8 FIRE (67 - 837)

The Licensee must:

- 3.8.1 Not cause or permit any waste to be burned within the premises, and
- 3.8.2 Take immediate action to extinguish any fires at the premises, or where appropriate, notify emergency services, and
- 3.8.3 Notify the Authority no greater than 2 hours after becoming aware of a fire at the Premises, and
- 3.8.4 Provide a written incident report to the Authority within 72 hours after becoming aware of a fire at the Premises setting out:
 - a The date of the fire;
 - b The approximate time and duration of the fire;
 - c The cause of the fire (if known);
 - d The area of the Premises where the fire occurred;
 - e Any measures that will be taken to prevent a recurrence of a similar fire at the Premises;
 - f The extent of damage caused by the fire; and
 - g How the burnt waste and any fire suppressant was, or is to be, managed.

3.9 HAZARDS (67 - 836)

The Licensee must fence, mark or otherwise define:

- 3.9.1 Bore holes within the Premises;
- 3.9.2 All ponds or dams constructed for the collection of leachate or stormwater; and

3.9.3 Any other excavations within the Premises.

3.10 HOURS OF OPERATION (330 - 41)

The Licensee must only:

3.10.1 receive waste between 6:00am and 7:00pm on any day; and

3.10.2 operate the waste depot between 6:00am and 7:30pm on any day.

3.11 IMPLEMENT LEMP (315 - 724)

The Licensee must:

3.11.1 establish, maintain, operate and close the Premises in accordance with the approved document entitled 'Transpacific Waste Management Northward Fill Landfill Environmental Management Plan, volumes 1, 2 and 3 (Ref: 20040614RA1)', except where inconsistent with conditions of this licence; and

3.11.2 only implement any amendments to the LEMP once they have been approved in writing by the EPA.

3.12 INSTALL LANDFILL GAS SYSTEM (67 - 1399)

The Licensee must install an active Landfill Gas control system within stage 1 and 2 of the landfill on or before the date indicated in the compliance date column.

Compliance Date: 30-Nov-2013

3.13 INTERIM COVER (67 - 835)

The Licensee must:

3.13.1 Ensure that an interim cover is applied to all areas at the Premises in which waste has been disposed and in which no additional waste will be disposed within the following 30 days.

3.13.2 Only apply interim cover that meets Waste Fill or Intermediate Landfill Cover criteria.

3.14 LEACHATE MONITORING AND MANAGEMENT (305 - 722)

The Licensee must:

3.14.1 monitor and record all leachate levels from all leachate sumps on the Premises on a weekly basis;

3.14.2 ensure that leachate levels do not exceed a 300 millimetre head above the liner in any landfill cell;

- 3.14.3 dispose of leachate to the leachate ponds on the Premises that have been constructed and approved for use in writing by the EPA;
- 3.14.4 not re-circulate leachate within any landfill cell; and
- 3.14.5 include the records of all leachate level monitoring for the reporting period covered in the annual report required by condition 67-825 of this licence.

3.15 MAINTAIN RECORDS (67 - 1260)

The Licensee must ensure that records and certification to demonstrate all waste received as Waste Fill or Intermediate Soil at the Premises in accordance with conditions of this licence are maintained for a period of not less than 12 months from the date of receiving the Waste Fill or Intermediate Soil.

3.16 NON-FRIABLE ASBESTOS MANAGEMENT (67 - 704)

The Licensee must:

- 3.16.1 Only receive non-friable asbestos:
 - a that has been wrapped and sealed in plastic of no less than 200 micron thick; or
 - b that has been received in plastic-lined bins by a person licensed by the Authority to transport non-friable asbestos.
- 3.16.2 Only dispose of non-friable asbestos in an area solely designated for the disposal of that waste; and
 - a display a sign at the designated area stating that it is a non-friable asbestos disposal area.
- 3.16.3 On or before the close of each days operations, cover any non-friable asbestos disposed at the premises with no less than 150 millimetres of Waste Fill;
- 3.16.4 Not dispose of non-friable asbestos within one metre of any final surface level at the Premises; and
- 3.16.5 Take all reasonable and practicable measures to prevent the generation of asbestos dust.

3.17 RECEIPT OF WASTE FILL AND INTERMEDIATE SOIL (67 - 1256)

The Licensee must only receive Waste Fill or Intermediate Soil at the Premises:

- 3.17.1 if it complies with the relevant definitions and chemical criteria for Waste Fill or Intermediate Soil as defined in the attachment(s) to this Licence; and

- 3.17.2 provided it is received in accordance with conditions 67-1257, 67-1258, or 67-1259 of this licence.

3.18 RECEIPT OF WASTE FILL FROM DOMESTIC PREMISES OR LESS THAN 100 TONNES FROM OTHER SOURCES WHERE A POTENTIALLY CONTAMINATING ACTIVITY (PCA) HAS NOT OCCURRED (67 - 1257)

The Licensee must take all reasonable and practicable measures to ensure that Waste Fill that is sourced from a site where a PCA has not occurred is only received at the Premises, if it is:

- 3.18.1 from a single domestic premises or is less than 100 tonnes from any other single non-PCA source;
- 3.18.2 not obviously discoloured or odorous and does not display any other indication that contamination is likely to be present; and
- 3.18.3 not known nor likely to be contaminated based upon knowledge of the source.

3.19 RECEIPT OF WASTE FILL OR INTERMEDIATE SOIL FROM SOURCE SITE THAT WAS NOT SUBJECTED TO A FULL ASSESSMENT IN ACCORDANCE WITH THE SITE CONTAMINATION NEPM AND: * WHERE A POTENTIALLY CONTAMINATING ACTIVITY (PCA) HAS OCCURRED, OR * IS MORE THAN 100 TONNES FROM A SINGLE NON-PCA SITE (BUT IS NOT A DOMESTIC PREMISES) (67 - 1259)

The Licensee must ensure that Waste Fill or Intermediate Soil that is sourced from a site where a PCA has occurred or more than 100 tonnes from a single non-PCA source (not being a domestic premises) IS ONLY RECEIVED AT THE PREMISES, IF:

- 3.19.1 it has been subject to a statistically relevant sampling program in accordance with the procedures and methodologies set out in Schedule B(2) of the Site Contamination NEPM that:
- a determines the concentrations for all of the chemical substances in the attachment(s) to this Licence; and
 - b includes any additional substances which a suitably qualified consultant reasonably expects to be present in that waste, based upon the source of that waste; and
 - c chemical analysis of those samples has been undertaken in accordance with Schedule B(3) of the Site Contamination NEPM by a laboratory accredited by NATA for all relevant analyses; and
 - d those chemical analyses are assessed by a suitably qualified consultant in accordance with Schedule B(1) and B(2) of the Site Contamination NEPM; and

- 3.19.2 written, signed and dated certification is received from the suitably qualified consultant stating that:
- a based upon the sampling program and the assessment of the chemical analyses conducted in accordance with paragraph 1 of this condition, the waste constitutes Waste Fill or Intermediate Soil; and
 - b any chemical substances present that are additional to those specified for Waste Fill or Intermediate Soil, will not pose any harm to human health or the environment when that waste is received and deposited at the Premises in accordance with conditions of this licence.

3.20 RECEIPT OF WASTE FILL OR INTERMEDIATE SOIL FROM SOURCE SITE WHERE A POTENTIALLY CONTAMINATING ACTIVITY (PCA) HAS OCCURRED AND WAS SUBJECTED TO A FULL ASSESSMENT IN ACCORDANCE WITH THE SITE CONTAMINATION NEPM (67 - 1258)

The Licensee must ensure that Waste Fill or Intermediate Soil that is sourced from a site where a PCA has occurred is only received at the Premises if:

- 3.20.1 it has been produced from a site which has been assessed in accordance with Schedules A and B of the Site Contamination NEPM; and
- 3.20.2 is accompanied by written, signed and dated certification from an experienced site contamination consultant or site contamination auditor, stating that based upon the assessment undertaken in accordance with paragraph 1 and any other sampling or testing of the waste they require, that the waste constitutes Waste Fill or Intermediate Soil.

3.21 SECURITY (67 - 703)

The Licensee must lock all access gates when the Premises is unattended.

3.22 SIGNAGE (67 - 832)

The Licensee must display a sign at the entrance to the Premises clearly stating;

- 3.22.1 That the Licensee holds an authorisation under the Act;
- 3.22.2 The name of the Licensee;
- 3.22.3 The number of that authorisation;
- 3.22.4 The hours that the waste depot is open to receive waste;
- 3.22.5 The types of waste prohibited from disposal; and
- 3.22.6 The after hours phone number.

3.23 STAGE 1 AND 2 CAPPING (67 - 1402)

The Licensee must cap stage 1 and stage 2 of the landfill in accordance with the approved capping plan entitled "Northward Fill Stage 1 and 2 Cap Technical Specification ref: 20101486FS1" dated November 2012.

3.24 STORAGE OF FUEL, BATTERIES AND OIL (67 - 694)

The Licensee must:

- 3.24.1 store fuel, batteries and oil within a bund in accordance with the EPA Guideline entitled 'Bunding and Spill Management' updated June 2007;
- 3.24.2 store batteries undercover preventing the entry of stormwater into that bund; and
- 3.24.3 store and decant oil under a roofed area preventing the entry of stormwater into that bund.

3.25 STORMWATER (330 - 42)

The Licensee must:

- 3.25.1 ensure that stormwater, washdown water or any other liquids which result from the waste depot operations are treated in accordance with the LEMP;
- 3.25.2 ensure the stormwater treatment system is regularly maintained and kept clean to prevent litter, waste, soil or sediment entering the collection system;
- 3.25.3 ensure that stormwater that has come into contact with waste is kept separate from stormwater that has not come into contact with waste; and
- 3.25.4 dispose of any stormwater that has come into contact with waste in the leachate ponds as if it were leachate.

3.26 SUBMIT UPDATED GAS MANAGEMENT PLAN (315 - 725)

The Licensee must:

- 3.26.1 submit to the EPA an updated Landfill Gas Management Plan (LGMP) to address gas management for current and future stages of the landfill on or before the date indicated in the compliance date column; and
- 3.26.2 implement the LGMP once approved in writing by the EPA.

Compliance Date: 30-Nov-2013

3.27 SUPERVISION (67 - 702)

The Licensee must supervise the receipt and disposal of waste at the Premises to ensure that it is managed in accordance with the conditions of this authorisation.

3.28 TRAILER TRANSFER AREA/WHEEL WASH (67 - 838)

The licensee must:

- 3.28.1 Dispose of all waste stored within the trailer transfer area on or before the close of each days operations;
- 3.28.2 Ensure that all waste transport vehicles accessing the landfill utilise the wheel wash upon exiting the site; and
- 3.28.3 Treat all wastewater from the wheel wash as leachate and either transfer it to the leachate ponds or to a waste depot that is licensed by the Authority to receive that waste.

3.29 USED TYRES DISPOSAL CRITERIA (67 - 1400)

The Licensee must not dispose of used tyres at the waste depot unless they have been reduced in size to less than 250 millimetres in any direction.

3.30 VERMIN (330 - 153)

The Licensee must take all reasonable and practicable measures to prevent the attraction and harbourage of vermin.

4 MONITORING AND REPORTING

4.1 ANNUAL REPORT (67 - 825)

The licensee must

- 4.1.1 on or before 31 August each year, submit a written annual report that sets out for the previous Financial year:
- a a summary of Complaints and actions arising (refer Condition 300-20);
 - b a summary of the results and interpretation and actions arising from Groundwater monitoring including levels (refer condition 305-723);
 - c a summary of the results, an interpretation and actions arising from Landfill gas monitoring (refer condition 315-725);
 - d summary of the results, and interpretation and actions arising from stormwater and surface water monitoring (refer condition 305-105)
 - e summary of all Waste Soil received, stored and/or disposed in accordance with Conditions 67-1256, 67-1257, 67-1258, 67-1259, 67-1260, 67-930, 67-931 & 67-932;
 - f progress towards final height (mAHD in each cell and stage) and any updates to stage or cell planning;
 - g summary of all incidents, fires and emergencies;
 - h summary of results and interpretation and actions arising from leachate monitoring and management including chemical analysis, leachate levels and pumping records; and
 - i an updated plan of premises that shows the locations of:
 - i operational cells, proposed future cells, and closed cells,
 - ii landfill Gas monitoring and/or extraction bore network,
 - iii groundwater monitoring bores, leachate sumps, pipework and ponds, stormwater ponds and diversion networks,
 - iv materials storage areas, buildings access roads, Premises boundary, fencelines and nearest sensitive receptors.
 - j any conclusions and recommendations arising from the summary of the results.

4.2 GROUNDWATER MONITORING (305 - 723)

The Licensee must:

- 4.2.1 take groundwater samples for water quality analysis at six monthly intervals from all groundwater monitoring bores located on the Premises;
- 4.2.2 ensure that the groundwater quality samples referred to in paragraph 1 of this condition, are analysed for the analytical suite of parameters contained in Table 1 "Groundwater Monitoring Parameters" and Table 2 "Field Parameter Variations" attached to this licence;
- 4.2.3 record groundwater levels from all monitoring bores located on the Premises at six monthly intervals; and
- 4.2.4 submit the results of all groundwater monitoring for the reporting period covered in the annual report, as required by condition 67-825 of this licence.

4.3 STORMWATER AND SURFACE WATER MONITORING (305 - 105)

The Licensee must:

- 4.3.1 monitor stormwater and surface water in accordance with the LEMP;
- 4.3.2 undertake sampling and analysis of surface water at least twice each year when there is water present in the ponds;
- 4.3.3 submit the results of the monitoring to the Authority, along with additional information required in accordance with annual reporting requirements of condition 67-825 of this licence; and
- 4.3.4 notify the Authority immediately, but in case with two hours:
 - a if stormwater or surface water contamination occurs; or
 - b if any event occurs that has the potential to cause stormwater and surface water contamination.

5 ADMINISTRATION

5.1 ALTERATIONS to PLANT and EQUIPMENT (400 - 348)

The Licensee must:

- 5.1.1 not construct or alter a building or structure, or, install or alter any plant or equipment at the Premises, without written approval from the EPA, where such changes:
 - a have the potential to increase the emissions, or alter the nature of pollutants or waste currently generated by, or from the licensed activity, or
 - b have the potential to increase the risk of environmental harm, or
 - c would relocate the point of discharge of pollution or waste at the Premises;
- 5.1.2 ensure that written application is submitted to the EPA on the EPA form entitled 'Application for Alterations to Plant and Equipment' that details the proposed changes; and
- 5.1.3 pay the prescribed application fee indicated on the Application form.

NOTES

A. The EPA may during the term of this licence impose or vary the conditions of this authorisation upon approval of an application made in accordance with this condition.

B. The 'Application for Alterations to Plant and Equipment' form is available on the EPA website at -
http://www.epa.sa.gov.au/xstd_files/Licensing/Form/06_equipment_change.pdf.

C. In some circumstances installation of plant and equipment may be subject to consent under the provisions of the Development Act, which may have priority over the obligations of this condition - check with the licence coordinator for advice prior to completing the Application form.

5.2 ANNUAL RETURN PROCESS (400 - 78)

The Licensee must:

- 5.2.1 submit an annual return at least 90 days before the authorisation fee payment date, if this licence is for a term of two years or more; and
- 5.2.2 pay the annual authorisation fee by the authorisation fee payment date.

5.3 CHANGE OF LICENSEE DETAILS (400 - 338)

If the Licensee's name or postal address (or both) changes, then the Licensee must inform the EPA within 28 days of the change occurring.

5.4 CHANGE to PROCESS EMISSIONS or WASTE (400 - 347)

The Licensee must:

- 5.4.1 not undertake changes to operating processes at the Premises without written approval from the EPA where such changes:
 - a have the potential to increase the emissions, or alter the nature, of pollutants or waste currently generated by or from the licensed activity; or
 - b have the potential to increase the risk of environmental harm; or
 - c would relocate the point of discharge of pollution or waste at the Premises;
- 5.4.2 ensure that written application is submitted to the EPA on the EPA form entitled 'Application for Change to Process Emissions or Waste', that details the proposed changes; and
- 5.4.3 pay the prescribed application fee indicated on the Application form.

NOTES

The EPA may during the term of this licence impose or vary the conditions of this authorisation upon approval of an application made in accordance with this condition.

The 'Application for Change to Process Emissions or Waste' form is available on the EPA website at -
http://www.epa.sa.gov.au/xstd_files/Licensing/Form/06_process_change.pdf.

5.5 DISPLAY LICENCE (400 - 339)

The Licensee must display a copy of this licence on a notice board at the Premises.

5.6 IMPOSE OR VARY CONDITIONS (400 - 201)

The EPA may during the term of this licence impose or vary conditions:

- 5.6.1 in relation to testing, monitoring and reporting referred to in section 52(1)(a) of the Act;
- 5.6.2 which require the Licensee, in accordance with section 53 of the Act, to prepare a plan of action to be taken in the event of an emergency;
- 5.6.3 which require the Licensee to develop an EIP as set out in section 54 of the Act and to comply with the requirements of the EIP;
- 5.6.4 which relate to provision of information relating to the Licensee or any agent or contractor undertaking any activity on behalf of the Licensee pursuant to this licence; and
- 5.6.5 which relate to provision of information relating to the activity subject to the licence including the levels of inputs and outputs and the amounts of pollutants or waste generated by the activity.

5.7 LICENCE INFORMATION TO EMPLOYEES/CONTRACTORS (400 - 215)

The Licensee must ensure that every employee, agent or contractor responsible for carrying out any task controlled by this licence is properly advised as to the requirements of this licence and the general environmental duty under section 25 of the Act that relate to that person's tasks and responsibilities as employee, agent or contractor.

5.8 LICENCE RENEWAL PROCESS (400 - 79)

An application for renewal of this licence must be made at least 90 days before the expiry date of this licence.

5.9 PATHLINE FINANCIAL ASSURANCE (320 - 13)

Pathline Financial Assurance

- 5.9.1 The Licensee must provide a financial assurance on or before 31 August each year that is equal to \$0.25 for each tonne of waste received during the previous financial year;
- 5.9.2 The Licensee must lodge the financial assurance with the Authority in the form of a bond (supported by a guarantee, insurance policy, or other security approved by the Authority) or in the form of a pecuniary sum discharge or repayment of which is conditional upon the Licensee complying with conditions 305-375, 305-105, 305-376 of this licence and undertaking when necessary emergency remediation of the Depot.

NOTES

The bond or sum shall be discharged in whole when the Authority is satisfied that these conditions of discharge have been complied with or are no longer necessary or in part when the accrued amount of the bond or sum exceeds the total costs, expenses, loss and damage that have been incurred or suffered or are likely to be incurred or suffered by any person (including the Authority) as a result of the Licensee's failure to satisfy these conditions of discharge.

Attachments

Groundwater attahment.pdf"

INTERMEDIATE WASTE SOIL.pdf"

LOW LEVEL CONTAMINATED WASTE.pdf"

Permitted wastes attachment.pdf"

WASTE FILL REGULATION 3.pdf"

Schedules - Waste attach.pdf"



Groundwater Monitoring

Authorisation Attachment – page 1 of 2

Table 1 – Groundwater Monitoring Parameters

Waste Management Pacific (SA) Pty Ltd – EPA Environmental Authorisation 14463

PHYSIO-CHEMICAL
Total Dissolved Solids (TDS)
pH Value
Biological Oxygen Demand (BOD)
Chemical Oxygen Demand (COD)
ORGANICS / NUTRIENTS
Nitrate (NO ₃ as N)
Nitrite (NO ₂ as N)
Ammonia (NH ₃ as N)
Kjeldahl Nitrogen (TKN)
Total Phosphorous
Polychlorinated Biphenyls (PCBs)
Total Phenols/Phenols by speciation
Benzene, Ethylbenzene, Toluene, Xylenes (BTEX)
Total Petroleum Hydrocarbons (TPH)
Polychlorinated Aromatic Hydrocarbons (PAHs)
Total Organic Carbon (TOC)
Organochlorine Pesticides (OCPs)
CATIONS / ANIONS
Calcium (Ca)
Sodium (Na)
Magnesium (Mg)
Potassium (K)
Total Alkalinity
Bicarbonate (HCO ₃)
Carbonate (CO ₃)
Chloride (Cl)
Sulphate (SO ₄)

Table 1 – Groundwater Monitoring Parameters *(continued)*

Waste Management Pacific (SA) Pty Ltd – EPA Environmental Authorisation 14463

INORGANICS
Soluble Iron (Fe)
Total Cyanide
Arsenic (As)
Boron (B)
Cadmium (Cd)
Chromium (Cr)
Copper (Cu)
Iron (Fe)
Lead (Pb)
Manganese (Mn)
Mercury (Hg)
Nickel (Ni)
Zinc (Zn)

Table 2 – Field Parameter Variations

Waste Management Pacific (SA) Pty Ltd – EPA Environmental Authorisation 14463

PARAMETER	PERMITTED VARIATION
Electrical Conductivity (EC)	± 5%
pH	± 0.1 units
Redox Potential (Eh)	± 10mV
Temperature	± 0.2° C

Intermediate Waste Soil

Intermediate Waste Soil – Chemical characteristics

CHEMICAL SUBSTANCE	Concentration in mg/kg (dry weight)	MAXIMUM LEACHATE CONCENTRATION - in mg/L
		Method of Analysis - AS 4439.3 – 1997
Aldrin + dieldrin (total)	<2	#
Arsenic	<200	5
Barium		
Benzene	<5	#
Benzo(a)pyrene	<2	#
Beryllium	<40	1
Cadmium	<30	0.5
Cobalt	<170	#
Chlordane	<2	#
Chromium (III)	<12%	#
Chromium (VI)	<200	5
Copper	<2000	10
Cyanides (Total)	<1000	10
DDT	<2	#
Ethylbenzene	<100	#
Heptachlor	<2	#
Lead	<1200	5
Manganese	<6000	50
Methyl mercury	<20	#
Mercury	<30	0.1
Nickel	<600	2
Total Petroleum Hydrocarbons (TPH) C ₆ -C ₉	<100	#
TPH > C ₉	<1000	#
Phenolic compounds (total)	<17000	#
Polychlorinated biphenyls	<2	#
Polycyclic Aromatic Hydrocarbons (PAH) (Total)	<40	#
Toluene	<50	#
Xylene (total)	<180	#
Zinc	<14000	250

1. The assessment of the chemical analysis carried out on samples of the waste soil in accordance with this condition may include scientifically valid statistical analysis to justify classification of the waste soil in accordance with the values listed in this table. Such statistical analysis may include 95%UCL applied to the total dry weight results to demonstrate compliance criteria are not exceeded. No individual result shall be greater than 2.5 times the stated total dry weight criteria.
2. '#' indicates that leachate testing for that chemical substance is not required provided that the concentration of that chemical substance in mg/kg (dry weight) does not exceed the value specified for that category of waste soil.
3. '<' = 'less than'

Low Level Contaminated Waste Soil

Criteria for the Classification and Disposal of Low Level Contaminated Waste – Chemical Characteristics

CHEMICAL SUBSTANCE	LOW LEVEL CONTAMINATED WASTE	
	CONCENTRATION in mg/kg (dry weight)	MAXIMUM LEACHATE CONCENTRATION in mg/L
		Method of Analysis AS 4439.3 – 1997
Aldrin + dieldrin (total)	<50	0.1
Arsenic	<750	5 ^{TPR 1}
Barium		100 ^{TPR 1, 2}
Benzene	<15	1
Benzo(a)pyrene	<5	0.001
Beryllium	<150	1
Cadmium	<60	0.5 ^{TPR 1}
Cobalt	<1 000	#
Chlordane	<50	0.6
Chromium (total)	-	20 ^{TPR 1, 2}
Chromium (III)	<30%	#
Chromium (VI)	<750	5 ^{TPR 1}
Copper	<7 500	10 ^{TPR 1}
Cyanides (total)	<3 500	10
DDT	<50	0.3
Ethylbenzene	<1 000	30
Heptachlor	<50	0.3
Iron	-	100 ^{TPR 1, 2}
Lead	<5 000	5 ^{TPR 1}
Manganese	<10 000	50 ^{TPR 1}
Methyl mercury	<75	#
Mercury	<110	0.1 ^{TPR 1}
Nickel	<3 000	2 ^{TPR 1}
Total Petroleum Hydrocarbons (TPH) C ₆ -C ₉	<1 000	#
TPH > C ₉	<10 000	#
Phenolic compounds (total)	<50 000	14.4
Polychlorinated biphenyls (PCBs)	<50	#

(continued)

Polycyclic Aromatic Hydrocarbons (PAH) (total)	<200	#
Silver	-	5 ^{TPR 1, 2}
Toluene	<500	14.4
Xylene (total)	<1 800	50
Zinc	<50 000	250 ^{TPR 1}

1. The assessment of the chemical analysis carried out on samples of the waste in accordance with conditions of this licence may include scientifically valid statistical analysis to justify classification of the waste in accordance with the values listed in this table.
2. ‘#’ indicates that leachate testing for that chemical substance is not required provided that the concentration of that chemical substance in mg/kg (dry weight) does not exceed the value specified for that category of waste.
3. ‘<’ = ‘less than’
4. TPR¹ – analyte required as minimum suite for treatment plant residues.
5. TPR² – testing required for treatment plant residues only.



Schedule – Permitted Wastes

Waste Management Pacific (SA) Pty Ltd – EPA Environmental Authorisation 14463

WASTE STREAM	PERMITTED to RECEIVE	PERMITTED to DISPOSE
Asbestos: Non-Friable	YES	YES
Commercial and Industrial Waste (General)	YES	YES
Compostable Organic Waste	YES	YES
Construction and Demolition Waste (Inert)	YES	YES
Construction and Demolition Waste (Mixed)	YES	YES
Domestic Waste	YES	YES
E-waste	YES	NO
Green Waste	YES	YES
Inert Waste	YES	YES
Municipal Solid Waste - Kerbside Bin Collection	YES	YES
Putrescible Waste	YES	YES
Quarantine Waste	YES	YES
Used Tyres	YES	YES
Waste Fill	YES	YES
Copper Chrome Arsenate (CCA) Treated Timber	YES	YES
Scrap Metal	YES	NO
Intermediate Soil	YES	YES
Intermediate Waste	YES	YES
Low Level Contaminated Soil	YES	YES
Low Level Contaminated Waste	YES	YES
Treatment Plant Residues	YES	YES
Used Foundry Sand	YES	YES



Waste Fill - Regulation 3

Interpretation - Environment Protection Regulations 2009

The full interpretation of 'WASTE FILL' - as defined in the Environment Protection Regulations 2009, Regulation 3(1) is -

waste fill means waste consisting of clay, concrete, rock, sand, soil or other inert mineralogical matter in pieces not exceeding 100 millimetres in length and containing chemical substances in concentrations (calculated in a manner determined by the EPA) less than the concentrations for those substances set out in Regulation 3 - Interpretation, but does not include waste consisting of or containing asbestos or bitumen.

Chemical substance	Concentration (milligrams per kilogram of waste fill)	Chemical substance	Concentration (milligrams per kilogram of waste fill)
Aldrin/dieldrin (total)	2	Ethylbenzene	3.1
Arsenic	20	Heptachlor	2
Barium	300	Lead	300
Benzene	1	Manganese	500
Benzo(a)pyrene	1	Mercury	1
Beryllium	20	Nickel	60
Cadmium	3	Petroleum hydrocarbons TPH C6-C9 (total)	65
Chlordane	2	Phenolic compounds (total)	0.5
Chromium (III)	400	Polychlorinated biphenyls (PCBs)	2
Chromium (VI)	1	Polycyclic aromatic hydrocarbons (PAH) (total)	5
Cobalt	170	Petroleum hydrocarbons TPH>C9	1000
Copper	60	Toluene	1.4
Cyanides (total)	500	Xylene (total)	14
DDT	2	Zinc	200



Schedule – Waste

Schedule 3

Waste Management Pacific (SA) Pty Ltd, EPA Environmental Authorisation 14463

Environmental Certification of Low Level Contaminated Waste

For wastes classified as **Low Level Contaminated Waste** under conditions of this Licence, the Licensee must ensure that:

1. an environmental consultant has carried out a sampling program in accordance with the sampling procedures and methodologies set out in Schedule B(2) of the Assessment of Site Contamination NEPM in relation to the waste or other valid scientific sampling program, and has assessed the chemical analysis of those samples undertaken in accordance with paragraph 2 below, to determine:
 - a. the concentrations in milligrams per kilogram, dry weight, for all of the chemical substances in Table 3 of this licence and any other chemical substances, which the environmental consultant reasonably expects to be present in the waste, based on the source and any prior uses or treatment of that waste or waste soil; and
 - b. the leachate concentrations in milligrams per litre, for all of the chemical substances selected in subparagraph 1.a, where provided for, in Table 3.
2. the chemical analysis of the samples referred to in paragraph 1 above, is undertaken in accordance with Schedule B(3) of the Assessment of Site Contamination NEPM and by a laboratory NATA accredited for all the chemical analysis carried out, as applicable.
3. the leachate analysis referred to in paragraph 1.b above, is undertaken using Australian Standard 4439.3 - 1997 (Preparation of Leachates, Bottle Leaching Procedure) for non-volatile or semi-volatile compounds, and Australian Standard 4439.2 – 1997 (Preparation of Leachates – Zero Headspace Procedure) for volatile compounds.

Schedule 4

Environmental Certification of Low Level Contaminated Waste

For wastes classified as **Low Level Contaminated Waste** under conditions of this Licence, the Licensee must:

1. receive written, signed and dated certification from the producer of the residues or environmental consultant stating that, based on the environmental characterisation of the waste carried out in accordance with Schedule 3 and any other sampling or testing of the waste as required by the environmental consultant, the waste complies with the maximum leachate concentrations (in milligrams per litre) set out for Low Level Contaminated Waste in Table 3 for all of the chemical substances that have a maximum leachate concentration provided in Table 3.