

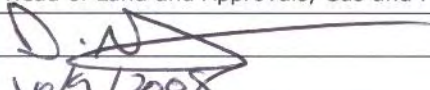
CAMDEN GAS PROJECT WASTE MANAGEMENT SUB PLAN

AGL Gas Production (Camden) Pty Limited
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Document Control

Waste Management Sub Plan

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1. Introduction

This Waste Management Sub Plan (WMSP) has been prepared to supplement the Environment Management Plan (EMP) for the Camden Gas Project ('the project' or 'CGP').

The WMSP has been developed to specifically address and manage waste management issues for the operations of the CGP, in line with the requirements of relevant licences and Development Consents. Types of wastes include solid, liquid and gaseous.

1.1. Objectives

To minimise waste creation and disposal, and maximise reuse or recycling by:

- › minimising waste creation by identifying and eliminating, or minimising the waste generation at its source;
- › avoiding land or water contamination and minimise health risks by prompt clean up and removal of waste from site;
- › maximising opportunities for reuse or recycling in an environmentally appropriate manner where possible; and
- › ensuring that any environmental impacts relating to waste management are reported and acted upon immediately.

1.2. Target

Waste disposal and recycling records are accurately maintained for Environmental Footprint Report and zero non conformances relating to waste management practices.

1.3. Responsibilities

AGL personnel responsible for implementing this WMSP include the following:

- › Field Environment and Safety Officer responsible for notifying the DECC (EPA) in the event of a waste related pollution event;
- › Field Environment and Safety Officer responsible for informing site personnel of the correct procedures required for effective waste management, through the induction program;
- › Field Environment and Safety Officer responsible for the monitoring of waste disposal, and reporting as required;
- › Project Manager responsible for any further improvements or controls of the waste management process;
- › Land and Compliance Officer responsible for landowner consultation with assistance from the Project Manager in addressing and managing incidents and complaints in relation to wastes; and
- › All employees are responsible for correctly managing wastes that arise from their work activities onsite, so as to minimise the environmental impact

2. Requirements

2.1. Key Licence/ Development Consent Requirements

Table 2-1: Summary of Key Licence/ Consent/ Approval Requirements

Reference	Requirement
DA 15-1-2002i: 24 (Sch 3) Fields - RPTP, Apap, Joe Stanley, Johndilo, Loganbrae, Lipscombe, Mahon	The Applicant shall prepare and implement a Waste Management Plan for the whole site. This plan shall include, but not necessarily be limited to: <ul style="list-style-type: none"> (a) measures to minimise the production and impact of waste produced at the site during drilling and operation; (b) implementation of waste reduction, reuse and recycling principles; (c) details of the reuse and recycling of waste water produced/collected on the site, including collection and handling procedures; (d) details of appropriate disposal methods in the event that reuse and recycling are not available or are not practicable; and (e) programs for involving and encouraging employees and contractors to minimise domestic waste production on the site and reuse/recycle where appropriate.
DA 15-1-2002i: 61(Sch 3)	The Applicant shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing or disposal or any waste generated at the site, to be disposed of at the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997 (POEO). This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the site, if it requires a licence under the POEO.
DA 171-7-2005: 13-4 (Sch 3) Field – El Bethel NB. Not commenced	The Applicant must not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing or disposal or any waste generated at the site to be disposed of at the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997. The Applicant must ensure that any hazardous, industrial or Group A waste is assessed and classified in accordance with the EPA's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes".

Reference	Requirement
DA 282-6-2003i: 106 (Sch 4) Fields - RPGP, Rosalind Park, Wandinong, EMAI (EM01-20, 38- 40) Glenlee (GL05, 07-10, 14-17)	<p>The Applicant shall prepare and implement a Waste Management Plan for the whole site. This plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) measures to minimise the production and impact of waste produced at the site during drilling and operation; (b) implementation of waste reduction, reuse and recycling principles; (c) details of the reuse and recycling of waste water produced/collected on the site, including collection and handling procedures; (d) details of appropriate disposal methods in the event that reuse and recycling are not available or are not practicable; and (e) programs for involving and encouraging employees and contractors to minimise domestic waste production on the site and reuse/recycle where appropriate. <p>Key concepts of the plan and management measures should be submitted and approved by the Director-General prior to substantial construction. The plan shall be fully completed and approved by the Director-General prior to commissioning.</p>
DA 282-6-2003i: 98 (Sch 4) EPL12003, L5.1	<p>The Applicant must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997.</p>
DA 282-6-2003i: 99 (Sch 4) EPL 12003, L5.3	<p>Except as provided by any other condition of this consent, only the hazardous and/or industrial and/or Group A waste listed below may be generated and/or stored at the premises:</p> <p>Waste oil/water, hydrocarbons/water mixtures or emulsions.</p>
DA 282-6-2003i: 100 (Sch 4) EPL 12003, L5.4	<p>The quantity of hazardous and/or industrial and/or Group A waste stored at the premises must not exceed 9000 L at any one time.</p>
DA 282-6-2003i: 101 (Sch 4) EPL 12003, L5.5	<p>The quantity of hazardous and/or industrial and/or Group A waste generated and/or stored at the premises must not exceed 85,000L per year.</p>
DA 282-6-2003i: 102 (Sch 4) EPL 12003, L5.6	<p>The quantity of non controlled aqueous liquid wastes generated at the premises must not exceed 3,000,000 L per year.</p>
DA 282-6-2003i: 103 (Sch 4)	<p>The Applicant must ensure that any hazardous, industrial or Group A waste at the premises is assessed and classified in accordance with the EPA's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes" in force as at 1 July 2003.</p>
DA 282-6-2003i: 104 (Sch 4)	<p>The Applicant must ensure that waste identified for recycling is stored separately from other waste.</p>
DA 282-6-2003i: 105 (Sch 4)	<p>Any movement of hazardous, industrial or Group A waste from the premises must be conducted in accordance with the EPA's waste tracking requirements.</p>

Reference	Requirement
DA 75-4-2005: 26, 27 (Sch 2) Field – Sugarloaf	The Applicant must not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing or disposal or any waste generated at the site to be disposed of at the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997. Note: this condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the site if it requires an environment protection licence under the POEO. The Applicant must ensure that any hazardous, industrial or Group A waste is assessed and classified in accordance with the DECC's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes".
PA 06_0137: 9 (Sch 3) Field – Razorback PA 06_0138: 10 (Sch 3) Field – EMAI (EM23-37)	The Proponent shall ensure that any waste or wastewater is assessed and classified in accordance with the DECC's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes", and disposed of at a licensed waste disposal facility or as otherwise agreed with the DECC.
PA 06_0291: 13 (Sch 3) Fields – Spring Farm, Menangle Park	The Proponent shall ensure that any waste or wastewater (including drill pits and drill/formation waters) is assessed and classified in accordance with the DECC's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes", and disposed of at a licensed waste disposal facility or as otherwise agreed with the DECC.
EPL 12003, Admin Cond A.1.2	Hazardous, Industrial or Group A waste generation or storage must not exceed 500 tonnes.
PEL 2, cond 6	All refuse must be deposited in properly constructed containers. The licence holder must maintain the area in a clean and tidy condition at all times.

It is a requirement of all development consents that work be carried out generally in accordance with the relevant Environmental Impact Statement (EIS) or Environmental Assessment (EA), which incorporates any specific recommendations or commitments related to waste.

2.2. Key Legislative and Regulatory Requirements

The key legislative and regulatory requirements relating to waste include:

Protection of the Environment Operations Act 1997

It is an offence for the following to occur:

- › Wilfully or negligently cause any substance to leak, spill or otherwise escape (whether or not from a container) in a manner that harms or is likely to harm the environment.
- › If a person transports waste to a place that cannot lawfully be used as a waste facility for that waste, or causes or permits waste to be transported.
- › If the owner/occupier of any land uses the land as a waste facility without lawful authority.
- › To supply information that is false or misleading in a material respect about waste relating to transport, storage, handling and disposal.

3. Management Measures

3.1. Potential Waste Sources

Potential sources of waste from the project include the following:

- > Rosalind Park Gas Plant (RPGP)
- > General waste (including office related refuse);
- > Used oil, air and fuel filters;
- > Paper and cardboard;
- > Pallets and packaging material;
- > Scrap metals;
- > Garden related green waste;
- > Compressor oils, coolant, solvents etc; and
- > Oily water emulsion, grey and septic water.

Field Activities:

- > Poly pipe gathering line off cuts;
- > Batteries;
- > Produced water from well sites; and
- > General refuse material from construction, drilling and other contractor activities.

Materials recycled include:

- > Used oil filters;
- > Paper and cardboard;
- > Scrap metal;
- > Garden related green waste;
- > Compressor oils;
- > Poly pipe;
- > Batteries;
- > Produced water.

3.2. Control Measures – Waste Management

Activity	Action	Area		Responsibility
		RPGP	Field	
General	The employee and contractor induction shall inform all site personnel about correct waste management procedures based on the principles of reduce, reuse and recycle and appropriate disposal.	✓	✓	Project Manager/ Field Environment & Safety Officer
	Waste containers shall be provided at all work sites.	✓	✓	Project Manager
	All work areas shall be maintained in a neat and tidy condition, litter bins will be used at all times and regular emptying shall prevent the accumulation of litter onsite.	✓	✓	All
	Activities will be carried out to minimise waste where possible, and any waste generated is disposed in a correct manner.		✓	Project Manager/ Field Environment and Safety Officer
Spills	Spills of waste materials shall be dealt with in a prompt and thorough manner, and reported to the Field Safety and Environment Officer.	✓	✓	Environment and Safety Officer/ Land and Compliance Officer
Disposal	General refuse shall be collected and transported to local council approved recycling or disposal sites.	✓	✓	Project Manager/ Field Environment and Safety Officer
	Waste oil, solvents and other toxic material, shall be collected for safe transport offsite for reuse, recycling, treatment or disposal.	✓	✓	Project Manager/ Field Environment and Safety Officer
	Onsite waste disposal is prohibited.		✓	All

4. Monitoring Report

Waste monitoring and reporting requirements include the following:

- › EPL 12003, Section 6, Reporting Condition 1: Annual Return including statement compliance and monitoring, load based licence calculations and complaints summary for the Camden Gas Project to be submitted to the DECC-EPA.
- › EPL 12003, Section 6, Reporting Conditions 2 and 3: Notification of incidents causing or threatening to cause environmental harm at the Camden Gas Project to the DECC-EPA.
- › Summary of waste disposal figures and trends in Camden Gas Project Annual Environmental Performance Report (AEPR).
- › Inspection checklists completed by the Field Environmental Officer, Project Manager, or Land and Compliance Officer.
- › Reporting of waste generated for the annual AGL Energy Environmental Footprint Report.

All records required to be kept by the EPL will be in a legible form, kept for at least 4 years and produced to any authorised officer of the DECC upon request.

5. Administrative

5.1. Site Specific Plans

- › Currently not applicable

5.2. Definitions

Waste

- (a) any substance (whether solid, liquid or gaseous) that is discharged, emitted or deposited in the environment in such volume, constituency or manner as to cause an alteration in the environment, or
- (b) any discarded, rejected, unwanted, surplus or abandoned substance, or
- (c) any otherwise discarded, rejected, unwanted, surplus or abandoned substance intended for sale or for recycling, processing, recovery or purification by a separate operation from that which produced the substance, or
- (d) any processed, recycled, re-used or recovered substance produced wholly or partly from waste that is applied to land, or used as fuel, but only in the circumstances prescribed by the regulations, or
- (e) any substance prescribed by the regulations to be waste.

Source: Protection of the Environment Operations Act 1997

5.3. Life Guard References

- › LG-HSE-020: Waste Management & Resource Conservation
- › LG-HSE-CG-063: Waste Management and Minimisation