

FINAL REPORT

Independent Environmental Audit Camden Gas Project

Prepared for

**AGL Gas Production (Camden) Operations Pty
Ltd**

AGL, Rosalind Park,
Lot 35, Medhurst Road,
Gilead, NSW

25 September 2009

43177447



Project Manager:



.....
Helen Pieris
Senior Environmental
Scientist

URS Australia Pty Ltd

Level 3, 116 Miller Street
North Sydney NSW 2060
Australia
T: 61 2 8925 5500
F: 61 2 8925 5555

Technical Review:



.....
Greg Loftus
Principal Consultant

Author:



.....
Sarah Clarke
Senior Environmental
Scientist

Date: 25 September 2009
Reference: 43177447
Status: Final Report Revision 1

Table of Contents

1	Introduction	1
1.1	Background	1
1.2	Audit Objectives	2
1.3	Audit Methodology	7
1.4	Personnel and Timing	8
1.5	Format of Report	8
2	Site Description	9
2.1	Brief History	9
2.2	Operations Summary (July 2006 – June 2008)	9
3	Environmental Performance and Effect on Surrounding Environment.....	12
3.1	Summary of Environmental Performance	13
3.1.1	Air Quality	13
3.1.2	Erosion and Sedimentation	13
3.1.3	Surface / Ground Water Contamination	13
3.1.4	Contaminated Land and Hydrocarbon Management	14
3.1.5	Threatened Flora and Fauna	14
3.1.6	Rehabilitation	14
3.1.7	Weeds	14
3.1.8	Operational Noise	14
3.1.9	Visual / light pollution	15
3.1.10	Aboriginal and Natural Heritage	15
3.1.11	Bushfire Management	15
3.1.12	Community	15
4	Compliance with Relevant Statutory Requirements	17
4.1	Conditions of Consent (CoC) Compliance	17
4.1.1	Conditions of Consent Assessed as ‘Non Compliant’ or Compliance ‘Indeterminate’	18
5	Review of the Environmental Management Plans	29
5.1	Adequacy of Environmental Management Plans	29
5.2	The new Environmental Management System (EMS)	30

1.1 Background

URS Australia Pty Ltd (URS) was engaged by AGL Gas Production (Camden) Operations Pty Ltd (AGL) to undertake an independent environmental audit of the Camden Gas Project, near Camden, New South Wales (NSW).

A joint venture between AGL and Sydney Gas (Camden) Operations Pty Ltd, referred to as the Camden Gas Project Joint Venture (CGP), commenced on 1 February 2006 with AGL being the Operator of the joint venture.

An independent environmental compliance audit is required to meet eight consent conditions under the various approvals for the CGP. The relevant conditions requiring this audit are summarised in Table 1-1.

Table 1-1 Consent Conditions requiring an Independent Environmental Audit of Operations

Consent Requirement	Reporting Authority	Consent Condition Reference
Commission and submit an Independent Environmental Audit - Operation	Department of Planning	DA 15-1-2002-i: 37 (Sch 3)
	Department of the Environment and Climate Change	DA 246-8-2002-i: 17 (Sch 3)
		DA 282-6-2003-i: 10 (Sch 5)
		DA 183-8-2004-i: 25 (Sch 2)
	Department of Primary Industries - Minerals	DA 9-1-2005: 44 (Sch 2)
		DA 75-4-2005: 58 (Sch 2)
		PA6_0137: 5 (Sch 4)
		PA6_0138: 5 (Sch 4)

The requirements of the Consent Condition listed in Table 1-1 above are provided below.

DA 15-1-2002i (dated 23 July 2002) (Schedule 3), Condition of Consent No. 37; DA 282-6-2003i (dated 16 June 2004) (Schedule 5), Condition of Consent No. 10; and DA 75-4-2005 (4 July 2007) (Schedule 2), Condition of Consent No. 58:

“Within two years of the date of this consent and every two years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:

- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;*
- (b) be consistent with ISO 14010 – Guidelines and General Principles for Environmental Auditing, and ISO 14011 – Procedures for Environmental Auditing, or updated versions of these guidelines/manuals;*
- (c) assess the environmental performance of the development, and its effects on the surrounding environment;*
- (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;*
- (e) review the adequacy of the Applicant’s Environmental Management Plan; and*
- (f) recommend measures or actions to improve the environmental performance of the development, and/or its environmental management and monitoring systems. Within two months of commissioning the audit, the Applicant must submit a copy of the audit report to the Director-General and the EPA and the DMR. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the EPA and DMR. Any*

Section 1

Introduction

action required to be undertaken shall be completed within such period as the Director-General may agree.”

Kay Park DA 246-8-2002i (20 September 2002) (Schedule 3), Condition of Consent No. 17

“The applicant shall include the operation of KP1, KP2, KP3, KP05, KP06 and the associated gas gathering system, and the conditions of this consent, in the Independent Audit required under Condition 35 (now Condition 37) of the Consent for DA No. 15-1-2002-I dated 23 July 2002.”

Mount Taurus and Menangle Park DA 183-8-2004i (16 December 2004) (Schedule 2), Condition of Consent No. 25

“The applicant shall include the operation of MT-1 – MT-10 inclusive, MP13-MP17 and MP30 inclusive and the associated gas gathering system, and the conditions of this consent, in the Independent Audit required under Schedule 5 Condition 8 (now Condition 10) of development consent DA-282-6-2003-I, dated 16 June 2004.”

Glenlee DA 9-1-2005i (26 May 2005) (Schedule 2), Condition of Consent No. 44

“The applicant shall include the operation of wells GL2-4 inclusive, GL6, EMAI-1H and EMAI-1V and the associated gas gathering system, and the conditions of this consent, in the Independent Audit required under Schedule 5 Condition 10 of development consent DA-282-6-2003-I, dated 16 June 2004.”

Project Approval 06-0137 (9 December 2006) (Schedule 5), Condition of Consent No. 5; and Project Approval 06-138 (9 December 2006) (Schedule 5) Condition of Consent No.5

“Within two years of the date of this consent and every three years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:

- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;*
- (b) be consistent with ISO19011:2002 – Guidelines for Quality and/or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals;*
- (c) assess the environmental performance of the project, and its effects on the surrounding environment;*
- (d) include a hazard audit of the project in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 5 “Hazard Audit Guidelines”,*
- (e) assess whether the project is complying with the relevant standards, performance measures, and statutory requirements;*
- (e) review the adequacy of the OEMP; and*
- (f) recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.*

1.2 Audit Objectives

The main objective of the audit is to assess compliance with the conditions issued by the Department of Planning within the six relevant development consents (and associated modifications) and two Project Approvals, as required by the eight consent conditions in the different approvals above. The development consents and description are listed below in Table 1-2.

Table 1-2 List of Consent Conditions, Modifications and Project Approvals

Name / No.	Issued by	Description	Date of Issue	Included in Previous Audit
DA 15-1-2002i Field – RBTP, Apap, Joe Stanley, Johndilo, Loganbrae, Lipscombe, Mahon	DoP	Approval granted “The Camden Gas Project Stage 1” development described as: - The continued operation of the existing 20 production wells; - Operation of 5 additional wells not yet completed and/or drilled; - Operation of the existing and proposed gas gathering system; - Operation of the existing gas treatment plant (RBTP); - Production of up to 93,000 GJ/month from the treatment plant; - Sale and distribution of gas to the AGL gas network; and - Operation of the existing site office and pipeyard depot.	23 July 2002 21 years from the date the PPL (PPL 1) was granted (therefore expires 1 September 2023)	Yes
MOD 53-4-2006	DoP	Modification granted for construction, drilling and operation of a directional well (LB11) from LB09	16 May 2006	No
DoP letter of approval 9 February 2007	DoP	Re-drilling Management Plan for AP01 and MH01 wells.	9 February 2007	No
MOD 24-3-2007	DoP	Modification granted for the construction, drilling and operation of 2 Surface to In-Seam (SIS) wells (AP02/AP03) at AP01.	4 July 2007	No
DA 246-8-2002i Field – Kay Park	DoP	Approval granted for the following Development: -The connection of 3 existing wells (KP01, KP02, and KP03) to the Ray Beddoe Treatment Plant, and the continued production and sale of methane gas from the 3 wells.	20 September 2002 21 years from the date the PPL (PPL 2) was granted (therefore expires 9 October 2023)	Yes
MOD 25-3-2007	DoP	Modification granted for the following development: - the construction, drilling and operation of 2 SIS wells (KP05 and KP06) at KP01.	4 July 2007	No

Section 1

Introduction

Name / No.	Issued by	Description	Date of Issue	Included in Previous Audit
DA 282-6-2003-i Fields – RPGP, Rosalind Park, Wandinong, EMAI (EM01-20, 40)	DoP	Approval granted for Stage 2 Development described as: - construction and drilling of 20 wells on the EMAI site; - Operation and production of gas from the existing (drilled) 23 wells and 20 wells to be constructed (a total of 43 wells); - Construction and operation of the gas gathering system; - Construction and operation of the gas treatment plant (RPGP), associated workshop and office facilities; and - Production of up to 14.5 petajoules per annum from the gas treatment plant.	16 June 2004 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	Yes
MOD 72-7-2004	DoP	Modification granted for the consent to include land omitted from the development consent, a requirement for an EMP for works in the Campbelltown City Council road reserve, and to allow works to commence prior to the granting of a production lease.	20 August 2004	No
MOD 5-1-2005	DoP	Modification granted for amendment to EMAI Access Road (18-11-2004 Map Ref M240329) and Gathering System (18-11-2004 Map Ref M240328).	14 February 2005	No
MOD 42-3-2005	DoP	Modification Application 42-3-2005 and the letter from Sydney Gas Operations Pty Ltd to the Department dated 14 March 2005 titled <i>Camden Gas Project Stage II – Modification Application</i> , and the accompanying attachments.	8 June 2005	No
MOD 52-4-2006	DoP	Modification granted for the construction, drilling and operation of 1 directional well (GL16) from GL07 and 2 directional wells (GL14 and GL15) from GL10.	16 May 2006	No
MOD 119-10-2006	DoP	Modification granted for the construction, drilling and operation of 1 directional well (GL16) from GL07 and 1 directional well (GL15) and 1 Surface to in-seam well (GL14) from GL10.	22 October 2006	No
MOD 124-10-2006	DoP	Modification granted for the construction, drilling and operation of 1 directional well (GL16) from GL07 and 2 Surface to in-seam wells (GL14 and GL15) from GL10.	1 November 2006	No
MOD 11-2-2007	DoP	Modification granted for the relocation of the Rosalind Park Gas Plant access road.	2 May 2007	No
MOD 26-3-2007	DoP	Modification granted for the construction, drilling and operation of 1 SIS well (EM38) at EM20 and upgrading (twinning) of the gas gathering line between MP14-GL10, GL10-GL05, GL05-GL07 and RP03-RP08.	4 July 2007	No

MOD 9	DoP	Modification granted for construction, drilling and operation of 2 SIS wells (EM39) at EM02 and (GL17) at GL05 and the upgrading (twinning) of the gas gathering line from EM39 to the junction of the gas gathering line and road to the EM03 well, and connection of the new wells to the existing gas gathering system.	11 April 2008	No
DA-183-8-2004i Field – Mount Taurus and Menangle Park (MP13-17, MP30)	DoP	Approval granted for the following Development: - Connection of 15 existing coal seam methane wells to the Rosalind Park Gas Plant from the Mount Taurus and Menangle Park properties, for the production of methane gas; and - Construction of a Dam at the MT1 gas well site.	16 December 2004 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	Yes
MOD 27-3-2007	DoP	Modification granted for the construction, drilling and operation of 1 SIS well (MP30) at MP13 and upgrading (twinning) of the gas gathering line between MP13 and MP14.	4 July 2007	No
DA 9-1-2005 Field – Glenlee (incl. EM21/2)	DoP	Approval granted by the Minister for Planning of the following Development: - Construction and drilling of well GL11; - Construction of a gas gathering system between four wells at Glenlee and two wells at EMAI; - Connection of 6 coal seam methane wells to the previously approved Stage 2 Camden Gas Project – Gas Treatment Plant, for the production of methane gas.	26 May 2005 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	Yes
MOD 51-4-2006	DoP	Modification issued for the construction, drilling and operation of a directional well from each of GL02 (GL12) and GL11 (GL13).	16 May 2006	Yes
MOD 28-3-2007	DoP	Modification granted for the upgrading (twinning) of the gas gathering line between GL02 and GL05.	4 July 2007	No
DA 75-4-2005 (Field – Sugarloaf)	DoP	Approval granted for the following Development: - Construction and drilling of 7 wells; - Construction of a gas gathering system and access roads; - Connection of the wells to the Stage 2 Camden Gas Project – Gas Treatment Plant; and - Production of methane gas.	07 October 2005 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	Yes
MOD 29-3-2007	DoP	Modification granted for the construction, drilling and operation of 2 SIS wells (SL08 and SL09) at SL03.	4 July 2007	No
PA 06_0137 Field - Razorback	DoP	Approval granted for the following Development: - Construction and drilling of wells RB03-RB12 and gas gathering lines.	9 December 2006 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	No

Section 1

Introduction

PA 06_0138	DoP	Approval granted for the following Development: - Construction and drilling of wells EM23-36 and gas gathering lines.	9 December 2006 21 years from the date the PPL (PPL 4) was granted (therefore expires 5 October 2025)	No
06_0138 MOD 1	DoP	Modification granted for one additional well (EM37) and changing an approved but not yet constructed well (EM32) from SIS to directional connection of the wells to the existing gas gathering system and production of coal seam methane gas.	6 July 2007	No (outside of this audit period)

The Camden Gas Project has also gained one DA and three modifications under which either no activities were carried out during the audit period or they have been superseded. These are DA 171-7-2005 for the construction and drilling of 10 wells in the El Bethel field and connection of those wells to the Rosalind Park Gas Plant; modification 24-3-2007 to DA 15-1-2003i for the construction, drilling and operation of 2 Surface to In-Seam (SIS) wells in the Apap Field; and superseded Modifications 52-4-2006 and 119-10-2006 to DA 282-6-2003i for the construction, drilling and operation of three directional wells in the Glenlee field. No assessment of compliance with the conditions under these approvals has been carried out.

The Camden Gas Project also holds a number of other licences and leases listed in Table 1-3 below. A brief assessment of compliance with the requirements under these licences and leases has been undertaken. However, the majority of the environmental requirements have been incorporated into the Development Consent conditions.

Table 1-3 List of Other Environmental Licences and Leases

Name / No.	Issued by	Description	Date of Issue
Petroleum Exploration Licence (PEL) No.2	Department of Primary Industries, Minerals (DPI)	Licence granted under Part 3 of the <i>Petroleum (Onshore) Act 1991</i> to undertake exploration activities.	27 March 2006 to 28 March 2011
Petroleum Production Lease (PPL) No.1	DPI Minerals	Lease granted to undertake production operations.	2 September 2002 to 1 September 2023
PPL No.2	DPI Minerals	Lease granted to undertake production operations.	10 October 2002 to 9 October 2023
PPL No.4	DPI Minerals	Lease granted to undertake production operations.	6 October 2004 to 5 October 2025
PPL No.5	DPI Minerals	Lease granted to undertake production operations.	28 February 2007 to 27 February 2028
PPL 6 (PPLA8)	DPI Minerals	Lease granted to undertake production operations.	<i>Not included in this audit.</i>

Name / No.	Issued by	Description	Date of Issue
EPL No. 11713	Environment Protection Authority, Department of Environment and Climate Change (DECC)	Premises at Ray Beddoe Treatment Plant licensed for the following activities: - Hazardous, Industrial or Group A Waste Generation or Storage (>10 – 100 T); and - Petroleum refining (0 – 10,000 T)	January 2003 Anniversary date 17 September, review date 12 September 2011. Licence is currently dormant.
EPL No. 12003	DECC	Premises at Rosalind Park Gas Plant licensed for the following activities: - Hazardous, Industrial or Group A Waste Generation or Storage (>100 – 500 T); and - Petroleum refining (>200,000 – 500,000 T).	September 2003 Anniversary date 22 December, review date 23 June 2013
Pipeline Licence No.30	Department of Water and Energy (DWE)	Licence to operate a pipeline to convey Coal Seam Methane between Rosalind Park Gas Plant and the Alinta Gas Networks Natural Gas Pipeline Number 1.	19 May 2004 to 19 May 2024
Bore Water Licence No: 10BL159415	DWE	Johndilo – Lot 62 DP 735555	9 June 2005 to 8 June 2010
Bore Water Licence No: 10BL160600	DWE	Loganbrae – Lot 6, DP 808569	24 September 2004 to 23 September 2009
3A Permit (Ref: PEN0000063) for Glenlee gathering line.	DWE	Relates to DA-282-6-2003i	15 January 2008
Controlled Activity Approval (Ref: ERM2008-7878)	DWE	Installation and removal of a temporary culvert. Relates to GL17 drainage line.	3 June 2008

Other objectives of the audit, in line with the relevant consent conditions are to:

- assess the environmental performance of the project, and its effects on the surrounding environment;
- assess whether the project is complying with the relevant standards, performance measures, and statutory requirements;
- review the adequacy of the Operational Environmental Management Plans; and
- recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.

The audit period is from 1 July 2006 to 30 June 2008.

Issues relating to health, safety and community are outside the scope of the audit, except where they are directly related to environmental issues.

The hazard audit required by the Project Approvals 06_0137 and 06_0138 is outside the scope of the audit.

1.3 Audit Methodology

The audit methodology comprised:

- An initial review of documentation including the Compliance Register;

Section 1

Introduction

- A site inspection and interviews by two auditors on 5 August 2008 and 12 August 2008;
- Review of relevant documentation provided by AGL;
- Submission of a Draft Report to AGL documenting the audit findings; and
- Submission of a Final Report to AGL, incorporating comments on the Draft report.

1.4 Personnel

Greg Loftus, Principal Environmental Consultant and Sarah Clarke, Environmental Scientist with URS Australia Pty Ltd (URS), conducted the audit. Greg is certified by RABQSA as Lead Environmental Auditor.

AGL personnel interviewed comprised Aaron Clifton, Field Environment and Safety Officer and Tom Lawler, Environmental Operator.

1.5 Format of Report

The format of this report is as follows:

- Section 1 is introductory and defines the scope and nature of the audit;
- Section 2 describes the AGL Camden Gas Project operations as observed during the site inspection;
- Section 3 provides an assessment of the environmental performance of the Project and its effects on the surrounding environment;
- Section 4 provides an assessment against the relevant standards, the performance measures and statutory requirements. Where operations were found to not be in compliance with conditions of consent, these outcomes have been summarised in this Section (Appendix A provides the results of the assessment against the eight development and project approvals); and
- Section 5 provides a review of the adequacy of the Environmental Management Plan.

Where measures or actions to improve the environmental performance of the Project, and/or the environmental management and monitoring systems are recommended these are provided in Sections 3 to 5 of this audit report.

2.1 Brief CGP History

This section provides a brief description of the history of the Camden Gas Project and a description of the operations and activities that have taken place during the audit period.

The Camden Gas Project field operations can be described as follows:

- Civil earth works to construct well sites and access roads;
- Drilling, fracking and installation of gas wells;
- Installation of the gas gathering lines in trenches;
- Separation of water from the gas at the wellhead location (if required);
- Transportation of the gas to either the Ray Beddoe Treatment Plant (RBTP, closed during the audit period) or the Rosalind Park Gas Plant (RPGP) via the gas gathering system;
- Treatment, pressurising and odorising of the gas to achieve marketable quality;
- Transport of the gas by pressurised pipeline to the AGL network; and
- Rehabilitation after well and gas gathering line construction activities and final rehabilitation after decommissioning of wells and gas plants.

Ancillary activities take place at the administrative facilities, a maintenance workshop and a washbay at RPGP.

2.2 Operations Summary (July 2006 – June 2008)

During the audit period (July 2006 to June 2008), development within the Camden Gas Project comprised the following:

Drilling

- Field development during the audit period includes 22 vertical wells, two deviated wells and seven surface to in-seam horizontal (SIS) wells, under a number of consents including modification of older consents.
- Three wells (Johndilo) were plugged and abandoned in October and November 2006.

Gathering Line Installation

- An approximate total of 17km of gas gathering line were constructed and commissioned for use across the EMAI, Razorback, Glenlee and Sugarloaf fields between July 2007 and June 2008.

Rosalind Park Gas Plant

- Compressors No.2 and No.3 were installed in December 2006 and February 2007 allowing reduced use of the flare;
- The new access road for the RPGP was constructed; and
- Ongoing environmental management improvements include a new oily water separation and treatment facility; enhancements to chemical storage and management; and planting of 2195 native trees along the RPGP access road.

Section 2

Site Description

Ray Beddoe Treatment Plant Shutdown and Decommissioning

- All wells were connected to the Rosalind Park Gas Plant by 31 January 2007;
- RBTP was shut down on 05 February 2007; and
- A Site Rehabilitation Management Plan was prepared for the RBTP and submitted to the DoP and DECC. The plan was approved by the DoP on the 21 April 2008 and by DECC on the 17 June 2008. It is currently being implemented.

Table 2-1 summarises the status of operations as of June 2008.

Table 2-1 Current Status of Operations (June 2008)

Well Name	Date Completed	Status June 2008
AP01	2000	Suspended
EB01-10	Incomplete	Approved – Not Drilled
EM01	Incomplete	Plugged and Abandoned
EM02, 05, 07, 09, 10, 11*, 12*, 13, 14, 15, 17, 18, 19 and 20	2005	Gas Producer
EM03, 04, 06, 08 and 16	2005	Suspended
EM21 and 22	2002	Gas Producer
EM23	2007	Suspended
EM24, 25, 27, 28, 30, 33, 34, 37, 38	2007	Gas Producer
EM26, 29, 35, 36	Incomplete	Approved – Not Drilled
EM31, 32	2007	Production Testing
EM39	Incomplete	Currently Drilling
EM40	2006	Gas Producer
GL01	Incomplete	Approved – Not Drilled.
GL02, 04, 05, 06, 07, 08, 09 and 10	2003	Gas Producer
GL03	2003	Plugged and Abandoned
GL11	2005	Gas Producer
GL12, 13, 14, 15 and 16	2007	Gas Producer
GL17*	Incomplete	Approved – Not Drilled
JD01 and 11	1999	Gas Producer
JD02, 03, 06, 07A, 09 and 10	1999	Plugged and Abandoned
JD04 and 05	1999	Suspended
JD08	Incomplete	Approved under PEL 2 – Not Drilled
JS01, 03 and 04	2000	Suspended
JS02	2000	Plugged and abandoned
KP01, 02 and 03	2002	Gas Producer
KP06	Incomplete	Approved – Not Drilled
KP05	2008	Production Testing
LB01, 02, 03, 04 and 08	Incomplete	Approved – Not Drilled
LB05 and 07	2001	Suspended
LB06, 09 and 10	2001	Gas Producer
LB11	2007	Gas Producer
LP01	Incomplete	Not Completed

Site Description

Section 2

Well Name	Date Completed	Status June 2008
MH01	Incomplete	Not Completed
MP14, 15, 16 and 17	2003	Gas Producer
MP13	2003	Suspended
MP30	2008	Production Testing
MT01 02, 03, 04, 06, 07, 08, 09 and 10	2004	Gas Producer
MT05	2004	Suspended
Ray Beddoe Treatment Plant*	2001	Shut Down (as of 05 February 2007)
RB03, 04 and 05	Incomplete	Approved – Not Drilled
RB06, 07*, 08, 09, 10, 11 and 12	2007	Producing
Rosalind Park Gas Plant*	2005	Operating
RP01	Incomplete	Approved – Not Drilled
RP02, 07*, 08, 10 and 12	2003	Gas Producer
RP03, 04, 05, 06, 09 and 11	2003	Suspended
SL01, SL04, SL05, SL06, SL07, SL08	Incomplete	Approved – Not Drilled
SL02 and SL03	2006	Production Testing
SL09	Incomplete	Not Completed
WG02 and 03	2003	Gas Producer
WG01, 04 and 05	2003	Suspended
WG06	Incomplete	Not Completed

*Wells (or areas) marked with an asterisk in column one of the table were observed by URS during the site visit on 5th and 12th August 2008.

Section 3

Environmental Performance and Effect on Surrounding Environment

This Section addresses the requirement to assess the environmental performance of the project and its effects on the surrounding environment as required by:

- DA 15-1-2002i (Schedule 3), Condition of Consent No. 37;
- DA 246-8-2002i (Schedule 3), Condition of Consent No. 17;
- DA 282-6-2003i (Schedule 5), Condition of Consent No. 10;
- DA 183-8-2004i (Schedule 2), Condition of Consent No. 25;
- DA 9-1-2005i (Schedule 2), Condition of Consent No. 44;
- DA 75-4-2005 (Schedule 2), Condition of Consent No. 58;
- Project Approval 06_0137 (Schedule 5), Condition of Consent No. 5; and
- Project Approval 06_138 (Schedule 5) Condition of Consent No 5:

“(c) assess the environmental performance of the development, and its effects on the surrounding environment”

This section provides a review of the environmental performance through consideration of the following:

- Air quality;
- Erosion and sedimentation;
- Surface/ground water pollution;
- Contaminated land and hydrocarbon management;
- Threatened flora and fauna;
- Rehabilitation;
- Weeds;
- Operational noise;
- Visual/light pollution;
- Aboriginal and natural heritage;
- Bushfire management; and
- Community.

The environmental performance of the development has been assessed through a review of environmental performance data, such as monitoring results presented in the Annual Environmental Performance Reviews (AEPRs), for the audit period (July 2006 to June 2008) and observations made by URS during the site visits on 5th and 12th August 2008.

The AEPR for the July 2007 – June 2008 period has recently been provided to the DoP. The auditors have also been provided with a copy of the July 2006 – June 2007 AEPR. In an effort to avoid repeating the content of the

Environmental Performance and Effect on Surrounding Environment

Section 3

AEPRs here, the following sections summarise the key issues and provide an assessment of environmental performance during the audit period.

3.1 Summary of Environmental Performance

Overall, no significant ongoing environmental issues were identified during the audit in relation to the CGP during the audit.

3.1.1 Air Quality

As RBTP was shut down in February 2007 no air monitoring was undertaken at RBTP during the audit period. This was previously agreed with DECC.

At the RGP, 2006 – 2007 and 2007 - 2008 AEPRs reported that levels of sulphur trioxide, sulphur dioxide and sulphuric acid mist exceeded the Environmental Protection Licence limits on numerous occasions during the audit period, particularly at monitoring point 4, the reboiler flue. Monitoring results showed compliance with the EPL limits for nitrogen oxides, which had shown exceedences in previous audit periods.

AGL is currently negotiating with the DECC regarding an increase in the sulphur trioxide limit for the reboiler flue (Point 4) as it is currently the same as the eight hour Workplace Exposure limit.

Stephenson Environmental Management Australia undertook emission testing to determine whether the plant is in compliance with the air pollutant criteria when measured at nearby residential properties. Pollutant concentrations were measured at the emission points and compared to the input data used in the modelling for the air impact assessment. The findings of the report were that the emission rates complied with the DA limit for all the specified pollutants at nearby properties.

3.1.2 Erosion and Sedimentation

To mitigate potential sediment and erosion impacts a Soil and Water Management Plan is developed for each well site prior to drilling.

During the site visit a number of wells and the RBTP and RGP were inspected. No significant areas of erosion were observed during the site visit. Rehabilitation of the operational wells was observed to be effective by returning the well surroundings back to their original use, which was generally grazing land.

For further comment on erosion issues see Section 3.1.6: Rehabilitation.

3.1.3 Surface / Ground Water Contamination

Surface water monitoring was undertaken at the RGP evaporation pond as required. Monitoring results appear to be within acceptable ranges. Reporting of monitoring results is no longer a requirements of the EPL for the site as it was removed by the DECC. It was reported that no water was taken from or discharged from the evaporation pond during the reporting period.

The liner of the evaporation pit at RGP was integrity tested up until April 2008 and the waters within the pit have shown a slight increase in salinity over time. Whether the rise in salinity and conductivity constitutes a significant issue is not assessable, as this depends largely on the groundwater flows, surrounding land use and the presence of nearby sensitive receptors. Neither the Environmental Management Plan nor the Soil and Water Management Sub Plan define water quality criteria for this test point.

Given the construction of wells (comprising two casing strings and cementing between the two casings), potential contamination of groundwater is not considered to be an issue.

Section 3

Environmental Performance and Effect on Surrounding Environment

3.1.4 Contaminated Land and Hydrocarbon Management

There is no land identified as contaminated or polluted on any part of AGL operations. No significant contamination issues were identified during the audit.

3.1.5 Threatened Flora and Fauna

Given the scale of construction works during the audit period (drilling of well sites and laying of gas gathering lines), there are unlikely to have been significant impacts on threatened species. Any construction at EMAI was undertaken outside the raptor breeding season in accordance with PA06_0138.

No additional threatened flora or fauna were identified during the reporting period.

3.1.6 Rehabilitation

In the 2007 – 2008 draft AEPR AGL reported that approximately 117Ha have been rehabilitated to date. Rehabilitation works at different stages were observed during the site visit. Rehabilitation generally appeared to be in accordance with the EHSMPs.

Rehabilitation of the gas gathering line areas was generally observed to be good. Trench settlement and erosion was observed around a rehabilitated area of the gas gathering line near GL17. However, this gas gathering line was within a coal washing plant area and in consideration of the area the trench settlement is not considered to be a significant issue. As the gas gathering lines tend to be laid in areas of high disturbance and along the route of existing infrastructure, it is unlikely that this constitutes a significant issue. AGL undertakes an inspection of the full gathering line route annually and all trench settlement and erosion is repaired.

The Site Rehabilitation Management Plan for the Ray Beddoe Gas Plant was developed in early 2008. Rehabilitation commenced during the audit period (removal of Dangerous Goods) and is scheduled for completion before the end of the 2008 / 2009 financial year.

3.1.7 Weeds

Weed spraying took place at both the RBTP and RGP and around a number of wells during the audit reporting period. No significant weed invasion issues were noted.

3.1.8 Operational Noise

Noise monitoring was not undertaken at the RBTP, in accordance with DA 15-1-2002-i, as the plant ceased operation in early February 2007.

A review of noise monitoring results at residential receivers around RGP indicates compliance with the RGP EPL12003. At R1 noise from the RGP was generally inaudible due to masking by Hume Highway traffic noise. In an effort to maintain compliance with EPL noise limits at the RGP site, a noise wall and acoustic louvers were installed adjacent to cooling fans for compressor number 1 and changes were made to the plumbing of the TEG pump to reduce noise emissions. No noise complaints have been received in relation to the Rosalind Park Gas Plant during this audit period.

Noise monitoring was undertaken at sensitive receptors in the vicinity of wells on the Elizabeth Macarthur Agricultural Institute, Menangle Park, Glenlee, Razorback, Kay Park and Loganbrae fields during construction and operation. All noise emissions from wells demonstrated compliance with consent conditions. One noise related complaint was received regarding excessive noise at night during the drilling of the KP05 well. Drilling at this well was finished on the night of the complaint and therefore further noise monitoring was not undertaken. Further monitoring is planned during drilling of any future wells in the same location.

Environmental Performance and Effect on Surrounding Environment

Section 3

3.1.9 Visual / light pollution

There was one complaint relating to lighting at a surface to in-seam well during night time drilling during the audit period. In this case temporary lighting was not directed away from adjoining properties. To address the problem an inspection was arranged of the night lighting. The lights had been adjusted earlier during the day to assist visibility over the mud tanks and had not been readjusted for the night shift. Upon receipt of the complaint the lights were adjusted to face away from the residence. The landowner was informed of the actions taken to address the complaint.

No complaints regarding lighting issues have reportedly been received by AGL in relation to the RPGP.

AGL appears to have generally complied with the landscaping requirements set out in the conditions of consent. However, it is noted that the required visual impact and landscape audits at RGP have been delayed due to significant construction activity associated with the RGP access road during the scheduled audit period. This audit will now be undertaken during late 2008 / early 2009 (see Section 4 for further details).

3.1.10 Aboriginal and Natural Heritage

Aboriginal artefacts were reported to be managed in accordance with the EHSMPs, Environmental Assessments and Development Consent and Project Approval Conditions.

New Aboriginal Heritage Management Plans for the Razorback (RB06 -12) and EMAI (EM23 – 36) wells were developed in February 2007 and will be included in the new Environmental Management System (EMS) being developed for CGP. These include a description of measures that would be implemented for the mapping and salvage or relocation of the archaeological relics listed; a description of measures that would be implemented if any objects are discovered during the projects and a protocol for the involvement of Aboriginal communities.

No unexpected aboriginal relics were reported to have been encountered in this audit period.

3.1.11 Bushfire Management

With the exception of the provision of a 20m asset protection zone, bushfire hazard measures have been implemented around the RGP as required by the Development Consent Conditions. This is because the RGP is adjacent to a riparian area with vegetation protection requirements preventing the provision of a 20m asset protection zone. This 20m asset protection zone is currently beyond the AGL lease. The 2006 audit recommended that AGL liaise with the NSW Rural Fire Service (RFS) to ensure the measures in place are sufficient in the absence of the 20m asset protection zone. Advice from the Fire Service has not been sort. However, AGL has maintained a water storage reservoir with fire fighting equipment in place in the event of a fire. AGL has also recently consulted the DoP who reportedly concur with AGL's plan to manage and control vegetation in the protected area, instead of maintaining the asset protection zone.

It is recommended that AGL confirm with the RFS that in the absence of the 20m asset protection zone, alternative management and control of vegetation is sufficient to meet the RFS' requirements.

3.1.12 Community

Community complaints were recorded between October 2006 and February 2008, which were subsequently actioned. The details of the complaints and actions taken are provided in the following table:

Section 3

Environmental Performance and Effect on Surrounding Environment

Table 3-1 Community Complaints and Actions

Complaint	Date	Action Taken
Landowner complained that temporary lights were not directed away from adjoining landowners and also about excessive night shift noise.	February 2008	An inspection was arranged of the night lighting. The lights had been adjusted earlier during the day to assist visibility over the mud tanks and had not been readjusted for the night shift. Upon receipt of the complaint the lights were adjusted to face away from the residence. The landowner was informed of the actions taken to address the complaint. With regard to the complaint regarding excessive night time noise, drilling at this site was completed on the night of the complaint. Therefore noise monitoring was not undertaken following the complaint. Further monitoring planned during drilling of future wells in the same location.
Landowner complained about the presence of an AGL contractor working on the council strip of Menangle Road and the safety implications.	07 October 2006	AGL had received approval from Wollondilly Shire Council to work in that area. AGL Land Manager spoke with Landowner and apologised for any inconvenience caused. Works were completed promptly and equipment removed from the area that afternoon.
Landowner concerned that AGL activities may have been discharging saline water into Menangle Creek.	November 2006	EPA officer inspected the creek with AGL and complainant and collected water samples for analysis. EPA advised that the saline water was not caused by AGL activities, but instead by groundwater naturally welling to the surface in the creek bed.

Compliance with Relevant Statutory Requirements

Section 4

This Section addresses the requirement to assess whether the development is complying with the relevant standards, performance measures, and statutory requirements as required by:

- DA 15-1-2002i (Schedule 3), Condition of Consent No. 37;
- DA 246-8-2002i (Schedule 3), Condition of Consent No. 17;
- DA 282-6-2003i (Schedule 5), Condition of Consent No. 10;
- DA 183-8-2004i (Schedule 2), Condition of Consent No. 25;
- DA 9-1-2005i (Schedule 2), Condition of Consent No. 44; and
- DA 75-4-2005 (4 July 2007) (Schedule 2), Condition of Consent No. 58

“(d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements.”

and

Project Approval 06-0137 (Schedule 5), Condition of Consent No. 5; and Project Approval 06-138 (Schedule 5) Condition of Consent No.5

“(e) assess whether the project is complying with the relevant standards, performance measures, and statutory requirements.”

The standards, performance measures and statutory requirements with which the Camden Gas Project is required to comply with are outlined in Table 1-3.

The audit comprised an assessment of compliance with eight Development Consents and Project Approvals which incorporate the majority of the key environmental requirements of the active Environment Protection Licence (Ref: 12003) and the requirements of the Petroleum Production Leases and Part 3A permits / Controlled Activity Approvals.

4.1 Conditions of Consent (CoC) Compliance

The status of the Camden Gas Project performance, during URS' audit, in respect of each of the Conditions of Consent is presented in Appendix A.

Performance categories in respect of compliance are defined as follows:

- Compliant - currently in compliance;
- Non-compliant - currently not in compliance;
- Administrative non-compliance - currently not in compliance due to an administrative error;
- Not applicable - condition of consent not applicable at time of audit;
- Indeterminate - it has not been possible to assess compliance.

Comments are listed beside each condition to explain aspects of the audit review. Where considered relevant, observations have been made regarding specific compliance issues.

Section 4

Compliance with Relevant Statutory Requirements

In general, specific or rigorous assessment of documents required as part of meeting the CoC has not been undertaken during the assessment, particularly where they have been signed off by other parties (for example the DoP).

A summary of the non-compliance issues identified in the assessment against the consent conditions is provided in Section 4.1.1 below.

4.1.1 Conditions of Consent Assessed as 'Non Compliant' or Compliance 'Indeterminate'

DoP conditions of consent (CoC) for which AGL is not considered to be in compliance or for which compliance was indeterminate are listed below in Table 4-1. The basis for non-compliance or indeterminate compliance is provided. Further details of the assessment of all conditions are provided in Appendix A.

The eight DAs which cover the development contain a total of over five hundred and fifteen conditions (515) conditions. The audit identified 17 instances of non-compliance. A non-compliance may apply to a number of similar consent conditions within a number of development consents / project approvals. The following list categorises the non-compliances identified and where possible, identifies the causes:

- **Conditions that AGL was not aware of:** Some conditions have not been identified by the site as requiring action and therefore have not been adequately addressed e.g., there has been no consideration of the need for a visual impact audit at Rosalind Park, a landscape audit at Rosalind Park and the requirement for planting of native species around the well-heads at EMAI.
- **Plans and protocols which have not been developed / approved:** A number of non-compliances relate to plans and protocols which were not developed or not approved within the audit period. However, it should be noted that AGL is currently drafting a new Environmental Management Plan which will contain sub plans that will be applied across all operational areas.
- **Exceedences of EPL limits:** There were some exceedences in the EPL pollutant concentration limits. The causes of these exceedences vary. In some cases AGL considers that the limits have been set too low and AGL is currently in discussion with DECC regarding adjusting them.
- **Conditions that conflict with other requirements:** In some cases achieving compliance is not possible due to conflict with other conditions or requirements e.g., the maintenance of 20m asset protection zone at Rosalind Park, which is not possible due to the protected riparian zone vegetation adjacent.
- **Conditions that should be addressed by other AGL departments:** Other departments (other than Safety and Environment) are not aware that they need to address certain conditions, or are aware they have to address conditions but are unsure when the information should be provided e.g., the requirement to provide the Councils with GPS coordinates and well-head configurations for all the wells has not been addressed by the Land and Approvals team.

The audit also found five instances where compliance is indeterminate. The same issue causing compliance to be indeterminate may also reoccur against similar conditions across a number of development consents. Indeterminate compliance was often due to evidence not being available at the time of the site visit. This was mainly due to poor communication between different management groups at CGP and the change in management from Sydney Gas to AGL, which occurred in February 2006.

There were also five conditions which were assessed as being in compliance with the intent of the condition, but are listed as an administrative non-compliance due to the need to change a condition to reflect arrangements

Compliance with Relevant Statutory Requirements

Section 4

agreed with DECC, where AGL is not able to carry out monitoring as specified due to external factors or there being no evidence available to confirm that AGL has submitted the agreed documents to the Director-General.

In summary, no significant ongoing environmental issues have been identified in relation to the Camden Gas Project during the audit period. To maintain overall compliance the causes of non-compliance need to be addressed. However, these are minor issues in consideration of CGP's good overall environmental performance.

Section 4

Compliance with Relevant Statutory Requirements

Table 4-1 Conditions of Consent assessed as Not in Compliance or Compliance is Indeterminate

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 262-3-2003i Sch 3 Condition 15 & 17 <i>and</i> DA-183-8-2004-i Condition 6 & 8 <i>and</i> DA 9-1-05 Condition 7 & 9 <i>and</i> DA 75-4-2005 Condition 13 & 15	Non-compliant	The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well sites and gas gathering systems within their respective Local Government Area, in a format suitable to each of these Councils, within two months of the completion of the gas wells and gas gathering system.	This was reportedly carried out by Sydney Gas prior to AGL taking over CGP. However, the records of correspondence cannot be located. Given that the GPS coordinates for new wells under these DAs are also unavailable AGL is considered non-compliant under this condition of consent.	Ensure compliance with this CoC for any new wells under these DAs. Maintain records so they can be verified during the next audit.

Compliance with Relevant Statutory Requirements

Section 4

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282 Sch 3 Condition 16 & 17 <i>and</i> DA-183-8-2004-i Condition 7 & 8 <i>and</i> DA 9-1-05 Condition 8 & 9 <i>and</i> DA 75-4-2005 Condition 14 & 15	Non-compliant	The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.	This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence cannot be located. The wellhead configurations for new wells under these DAs are also not available.	Ensure compliance with this CoC for any new wells under these DAs. Maintain records so they can be verified during the next audit.
DA 282-6-2003i Sch 4 Condition 18	Non-compliant	Commission and pay the full cost of an Independent Audit of the performance of the mitigation measures implemented to prevent and minimise visual impacts. This includes landscaping, preservation of existing trees, and night-lighting effects. The audit must be conducted within 6 months of the commissioning of the proposed development and every 2 years thereafter. The requirements of the audit are also listed.	No independent audit of the performance of mitigation measures implemented to prevent and minimise visual impacts has been undertaken since the initial audit in August 2005. The audit was scheduled for August 2007, but delayed due to significant construction activity associated with the RGP access road during the audit period. AGL advises that this audit will now be undertaken during late 2008 / early 2009.	Commission an Independent Audit of the performance of mitigation measures implemented to prevent and minimise visual impacts of the development.
DA 282-6-2003i Sch 4 Condition 19	Non-compliant	Within 2 months of commissioning this audit the Applicant shall submit a copy of the audit report to the Director-General and provide a detailed response to any of the recommendations in the audit report.	No independent audit of visual impacts has been undertaken since August 2005. The audit report has therefore not been submitted to the Director-General.	Submit a copy of the audit report required under condition 18 to the Director-General.

Section 4

Compliance with Relevant Statutory Requirements

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282-6-2003i Sch 4 Condition 19B	Non-compliant	Within 6 months of completion of the landscaping and every 2 years thereafter, unless the Director-General directs otherwise, AGL shall commission and pay the full costs of an Independent Audit of the performance of the mitigation measures against the Landscaping Plan.	Landscaping of the access road commenced in September 2007 and was completed in November 2007. The independent audit is yet to be undertaken.	Commission an Independent Audit against the landscape planting for the Rosalind Park Access Road.
DA 282-6-2003i Sch 4 Condition 34	Non-compliant	AGL shall prepare and implement a Construction and Well Maintenance Noise Management Protocol to be used for the duration of the project. The condition also details the elements that should be included in the Protocol.	<p>SGL developed a Noise Management Program supported by the Noise Management Plan devised by ERM (September 2004). However, this was never approved by DECC and the plan was never implemented. The EHSMPs also address construction and well maintenance noise. However, they do not include all the elements described above.</p> <p>AGL is developing a Noise Management Sub-Plan, which will include these elements and will be included in the new EMP. A new sub-plan satisfies the above criteria.</p>	Continue to develop and implement the new noise management sub plan.
DA 262-3-2003i Sch 4 Condition 34A <i>and</i> PA06_0138 Sch 3 Condition 2	Administrative non-compliance	Compliance with construction noise goals, when measured at the nearest residential receptor.	Noise monitoring was undertaken during well construction. However, in some cases, the noise monitors were not placed at appropriate locations (i.e. at the nearest residential receptors) to be able to confirm compliance with conditions of consent and the monitoring was carried out at the wrong time of day in one instance.	Ensure that construction / drilling noise monitoring is undertaken at the location and time which is prescribed by the relevant conditions of consent in order to confirm compliance with those conditions.

Compliance with Relevant Statutory Requirements

Section 4

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282-6-2003i Sch 4 Condition 38	Non-compliant	AGL shall prepare and implement an operational noise management plan for the whole site. The plan should be submitted to the Director-General within six months of the date of consent. The condition also details the elements that should be included in the Plan.	A Noise Management Plan was devised by ERM (September 2004). However, this was never approved by DECC and the plan was never implemented. The EHSMPs also address operational noise. However, they do not include all the elements described above. AGL is developing a Noise Management Sub-Plan, which will include these elements and will be included in the new EMP. The new sub-plan satisfies the above criteria.	Continue to develop and implement the new noise management sub plan.
DA 282-6-2003i Sch 4 Condition 40	Administrative non-compliance	AGL must submit a noise compliance report to the DECC and the Department of Planning within one month of commissioning of the Gas Treatment Plant and on an annual basis with the Annual Return required by the DECC's licence to assess the project's compliance with the noise limits.	AGL does not provide an annual noise compliance report with the Annual Return, but instead provide quarterly annual monitoring reports after each attended monitoring event. The DECC are reported to be satisfied with this arrangement.	Consult with the DoP and DECC regarding changing this condition to a requirement for quarterly attended monitoring reports.
DA 282-6-2003i Sch 4 Condition 42	Indeterminate	Within six months of the date of this consent, the Applicant shall submit a detailed Noise Monitoring Program for the development to the Director-General for approval prior to commissioning. The Noise Monitoring Program must be prepared in consultation with the DECC.	The Noise Monitoring Program was developed in the last audit period, but had not been approved by the DECC. A meeting to finalise the program took place in August 2007. The monitoring program was again discussed in a June 2008 meeting. The DECC are reportedly satisfied with the monitoring program.	Finalise the Noise Monitoring Program with the DECC.

Section 4

Compliance with Relevant Statutory Requirements

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282-6-2003i Sch 4 Condition 48	Non-compliant	In relation to air emissions at RPGP, ensure that the concentration of a pollutant discharged does not exceed the concentration limit specified for that pollutant in the tables provided (the table covers oxides of nitrogen, sulphur dioxide and sulphuric acid mist).	<p>The following exceedences in concentration limits were recorded in the audit period.</p> <ul style="list-style-type: none"> SO₂: Point 1, September 2006. SO₃ and Sulphuric acid mist: Point 4, September 2006; Point 4, March 2007, Points 2 and 4, December 2007, Points 3 and 4 February 2008 and Point 2 April 2008. <p>The detection limits for sulphuric acid mist and sulphur trioxide were on a number of occasions set outside the concentrations limits specified in the Environmental Protection Licence. This was also an issue during the previous audit period, although there has been no action by the DECC.</p> <p>AGL states that an external laboratory determines the detection limit based on the sample quality and it is outside of AGL's control.</p>	This issue should be resolved in consultation with the DECC. Communicate with the laboratory to ensure detection limits for sulphur trioxide and sulphuric acid mist are within concentration limits wherever possible.
DA 282-6-2003i Sch 4 Condition 59	Administrative non-compliance	The Applicant must monitor the flare point emissions by sampling and obtaining results by analysis for each parameter specified.	This requirement has been deleted from the EPL due to health and safety concerns and there is now no requirement for monitoring of Point 7 within the Licence.	Seek deletion of this condition from the consent from the DoP.
DA 282-6-2003i Sch 4 Condition 67	Indeterminate	AGL shall undertake the development in a way that minimises the potential surface water impacts of the development.	<p>The liner of the evaporation pit at RPGP is tested for integrity. During each test, the volume of water reported to be observed has been very minimal, less than 10 litres. The last test was carried out in April 2008. Results show increasing salinity and conductivity over time.</p> <p>Whether the rise in salinity and conductivity constitutes a significant issue is not assessable, as this depends largely on the groundwater flows, surrounding land use and the presence of nearby sensitive receptors. Neither the Environmental Management Plan nor the Soil and Water Management Sub Plan define water quality criteria for this test point.</p>	The criteria for the water quality testing to determine the integrity testing for the pond liner should be defined with reference to the ANZECC guidelines.

Compliance with Relevant Statutory Requirements

Section 4

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282-6-2003i Sch 4 Condition 100	Non-compliant	The quantity of hazardous and/or industrial and/or Group A waste stored at the premises must not exceed 9000L at any one time	In July 2006, the DECC was notified that the current generation and on-site storage volume exceeded licence limits due to changes in the oily waste water separation process. The liaison process with DECC and DoP still continues. DECC & DoP have reportedly agreed to the licence modification to 65,000L on site storage. The licence has not yet been updated.	Ensure the EPL variation is gained. Liaise with the DoP to amend this consent condition in accordance with the amended EPL condition.
DA 282-6-2003i Sch 4 Condition 101	Non-compliant	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.	In July 2006, DECC were notified that the current generation and on-site storage volume is exceeding licence limits due to changes in the oily waste water separation process. The liaison process with the DECC and DoP still continues. DECC and DoP have reportedly agreed to the licence modification on site. The licence has not yet been updated.	Ensure the EPL variation is gained. Liaise with the DoP to amend this consent condition in accordance with the amended EPL condition.
DA 282-6-2003i Sch 4 Condition 107	Administrative non-compliance	AGL shall not bring into the EMAI site, any roadbase material for new access roads to gas well sites EM 1 to EM 4 (inclusive) and gas well site EM 6.	It is understood that this CoC was a requirement of the EMAI. However, in the last audit period EMAI had reportedly agreed to the use of off-site road base material rather than using the EMAI shale from its on-site pit as the EMAI did not want the shale used. More recently, EMAI has reportedly agreed to the use of shale from its on-site pit as roadbase material.	No further action recommended.
DA 282-6-2003i Sch 4 Condition 115	Non-compliant	List bushfire measures to implement at the site including provision of a 20 metre asset protection zone managed as an inner protection area, around the perimeter of the Gas Treatment Plant and gas well sites.	As noted in the 2006 audit, the 20 metre asset protection zone has not been implemented due to the adjacent riparian area with vegetation protection requirements preventing the provision of a 20m asset protection zone. The 2006 audit recommended liaising with the NSW Rural Fire Service to ensure the measures in place are sufficient in the absence of the 20m asset protection zone. Advice from the Fire Service has not been sort. However, AGL has recently consulted the DoP who reportedly concur with AGL's plan to manage and control vegetation in the protected area.	Confirm with the NSW Rural Fire Service that in the absence of the 20m asset protection zone, alternative management and control of vegetation is sufficient to meet the RFS' requirements.

Section 4

Compliance with Relevant Statutory Requirements

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
DA 282-6-2003i Sch 5 Condition 4 and DA 183-8-2004 Condition 23	Administrative non-compliance	The Applicant shall review and update the OEMP annually, or as directed by the Director-General.	The EHSMPs are to be replaced shortly by the new EMS and sub-plans. Prior to this a review of the EHSMPs was undertaken in October 2007, during which the additional compressors at RGP were included. A review was also undertaken in May 2006.	As recommended in the previous audit, develop a schedule to ensure the EMS (formerly EHSMPs) is updated annually.
DA 282-6-2003i Sch 7 Condition 7	Indeterminate	All works proposed under a Part 3A permit must be designed, constructed and operated so they do not cause erosion or sedimentation and to minimise adverse impacts on aquatic and riparian environments.	No significant erosion or sedimentation was observed at the time of the site visit. However, no work under a 3A permit was taking place at the time of the audit.	No further action recommended.
DA 282-6-2003i Sch 7 Condition 9	Indeterminate	Erosion and sediment control measures are required to be implemented prior to any works commencing, and must be maintained for as long as necessary after the completion of works, to prevent sediment and dirty water entering the river system.	It was reported that hay bales and silt fences are used to prevent erosion and sedimentation of rivers. No work under a 3A permit was taking place at the time of the audit.	No further action recommended.
DA 9-1-2005 Condition 26	Non-compliant	The Applicant shall provide landscaping around the well heads using appropriate native species.	The well head (GL11) subject to this consent has been rehabilitated in consultation with and to the satisfaction of the landowner, using pasture seed (a sterile exotic seed mix). This is consistent with the area, as all well heads under this consent are on open paddocks / grazing land.	AGL to consult with the DoP as to the reason for this requirement, with a view to having the requirement removed.
DA 75-4-2005 Condition 19	Non-compliant	Prepare and implement a Construction Noise Management Protocol for construction of the development. The protocol should include a number of elements set out in the condition.	Noise is included in the EHSMPs. However, the EHSMPs do not satisfy all the parts of this condition. AGL is currently developing a separate Noise Management Sub-Plan to go in the new EMS.	Continue to develop the EMS and sub plans including the Noise Management Plan. Ensure that the above requirements are included in the Noise Management Plan.

Compliance with Relevant Statutory Requirements

Section 4

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
PA 06_0137 and PA06_0138 Sch 2 Condition 8	Non-compliant	Within 3 months of the commissioning of the wells, AGL shall provide Council with: (a) the Geographical Positioning System (GPS) co-ordinates and digital survey data for the gas well sites and gas gathering system; and (b) the wellhead configuration of each gas well.	The Council has not been provided with the following information. This is reportedly because the wells under this Project Approval are still being constructed. AGL is required to provide these details within 3 months of commissioning the wells.	Provide the Council with the GPS coordinates and wellhead configuration for each gas well.
PA 06_0137 Sch 3 Condition 12 and PA 06_0138 Sch 3 Condition 13	Non-compliant	Within 3 months of commissioning of the project, AGL shall prepare a compliance report to the satisfaction of the Director-General. The report shall be prepared by a suitably qualified, experienced, and independent expert whose appointment has been endorsed by the Director-General.	A compliance report has not been prepared under this Project Approval.	After updating the Emergency Plan and developing a new Safety Management System provide a report to indicate compliance with the above requirements.
PA 06_0137 Sch 4 Condition 1 and PA 06_0138 Sch 4 Condition 1	Non-compliant	Prepare and implement an Operational Environmental Management Plan (OEMP) for the project to the satisfaction of the Director-General.	The EHSMP Drilling, Completion and Testing Operations was approved by the DoP in 2004, but has not been updated with the requirements under these Project Approvals. These will be included in the new EMP under the EMS.	Continue developing the new EMS and sub plans. Ensure all the requirements under these Project Approvals are included.

Section 4

Compliance with Relevant Statutory Requirements

CoC No.	Non Compliant / Indeterminate	Summary of CoC Requirement	Comment on Non-Compliance	Recommended Action
PA 06_0137 Sch 4 Condition 9 <i>and</i> PA 06_0138 Sch 4 Condition 9	Non-compliant	From 31 March 2007, and during the life of the project thereafter, the Proponent shall place a copy of the following documents and information (and any subsequent revisions) required under this approval on its website: (a) all current environmental management plans, strategies and programs; (b) all Independent Environmental Audits; (c) all AEPRs; and (d) a summary of all environmental monitoring results required under this consent (to be updated at least every 6 months),	The approved EHSMPs, the AEPRs and the previous Independent Environmental Audit are located in the Archive Library section of the AGL website. In addition a brief environmental monitoring summary is included on the website, however this does not include a summary of all environmental monitoring results under this consent.	Provide a more detailed summary of monitoring data on the website. This needs to be updated on a six monthly basis.

Review of the Environmental Management Plans

Section 5

This Section addresses the requirement to assess the adequacy of the applicant's Environmental Management Plan as required by:

- DA 15-1-2002i (Schedule 3), Condition of Consent No. 37;
- DA 246-8-2002i (Schedule 3), Condition of Consent No. 17;
- DA 282-6-2003i (Schedule 5), Condition of Consent No. 10;
- DA 183-8-2004i (Schedule 2), Condition of Consent No. 25;
- DA 9-1-2005i (Schedule 2), Condition of Consent No. 44;
- and DA 75-4-2005 (Schedule 2), Condition of Consent No. 58:

“(e) review the adequacy of the “Applicant’s Environmental Management Plan”

and

Project Approval 06_0137 (Schedule 5), Condition of Consent No. 5; and Project Approval 06_138 (Schedule 5) Condition of Consent No.5

“(e) review the adequacy of the OEMP [Operational Environmental Management Plan]”.

5.1 Adequacy of Environmental Management Plans

The Camden Gas Project currently has five Environmental Health & Safety Management Plans (EHSMPs). These are as follows:

- EHSMP Drilling Operations – 17 August 2006;
- EHSMP Gas Gathering System Construction – 28 March 2006;
- EHSMP Operations – 13 May 2006;
- EHSMP Rosalind Park Construction (no longer in use) – 29 June 2004; and
- EHSMP Gas Sales Pipeline Construction (no longer in use) – 29 June 2004.

The EHSMPs were approved by DMR (now DPI), DIPNR (now DoP), and EPA (part of DECC) in April 2004 with the EHSMP Rosalind Park Construction and EHSMP Gas Sales Pipeline Construction approved in June 2003.

A brief review of the EHSMPs as part of the July 2004 – June 2006 period audit indicated that the majority of the requirements of the Conditions of Consent were covered by the EHSMPs. However, it was also noted that the EHSMPs are relatively generic and field specific environmental management controls are reported to be incorporated into the EHS Induction on a field-by-field basis. In addition, it was noted that environmental performance at Camden is reliant on the experience and knowledge of a few key members of staff, particularly that of the Field Environment and Safety Officer.

The auditor notes that AGL has decided to replace the EHSMPs with a new consolidated Environmental Management System including a single Environmental Management Plan and sub plans. This was a consequence of the comments regarding the EHSMPs in the last audit and in recognition of the need to reduce reliance on the knowledge of individuals. A brief description of the new EMS / EMP is provided below. The

Section 5

Review of the Environmental Management Plans

system was not finalised within the audit period, therefore a review of the adequacy of the EMP and sub plans has not been undertaken.

5.2 The new Environmental Management System (EMS)

The new Environmental Management System for the CGP comprises the following key elements:

- the AGL Life Guard Health Safety and Environment (HSE) System;
- the AGL HSE Policy;
- a CGP Environmental Management Compliance Register;
- this CGP Environmental Management Plan (and associated environmental management Sub Plans); and
- a Production Operations Plan (POP) (prepared as a separate document).

Together these documents should facilitate uniform implementation of environmental management at the CGP.

The EMP is being developed in accordance with the key requirements ISO14001:2004 Environmental Management Systems Standard, and in accordance with the environmental requirements of AGL's Life Guard HSE System (based on ISO 14001: 2004). It sets out the overall environmental management framework for the CGP. It also details the requirements of titles, consents and legislation, describes activities, contains the various environmental management plans, and sets out the processes for implementation, monitoring and review.

The following sub plans have been developed to address specific issues across the CGP and will be included in the EMP:

- Noise Management;
- Flora and Fauna Management;
- Soil and Water Management;
- Aboriginal Cultural Heritage Management;
- Landscape and Rehabilitation Management;
- Air Quality Management;
- Waste Management;
- Traffic Management;
- Dangerous Goods and Hazardous Materials Storage; and
- Environmental Emergency Response Plan (including Flood and Bushfire).

Status of Compliance with Conditions of Consent

Appendix A

**DETERMINATION OF A DEVELOPMENT APPLICATION
FOR STATE SIGNIFICANT, DESIGNATED AND
INTEGRATED DEVELOPMENT
UNDER SECTION 80 OF THE
*ENVIRONMENTAL PLANNING AND ASSESSMENT ACT
1979***

I, the Minister for Planning, under Section 80 of the Environmental Planning and Assessment Act 1979, approve the Development Application referred to in Schedule 1, subject to the conditions in Schedule 3 and 4.

The reason for the imposition of the conditions is to:

- (i) Minimise any adverse environmental impacts associated with the development;
- (ii) Provide for the on-going environmental management of the development; and
- (iii) Provide for regular monitoring and reporting on the development.

Andrew Reshaug MP
Minister for Planning

Sydney,

2002

File No. S00/00945

SCHEDULE 1

Development Application: DA No. 15-1-2002-i

Applicant: Sydney Gas Operations Pty Limited

Consent Authority: Minister for Planning.

Land:

FACILITY	PROPERTY DP NUMBER
Apap 1 (AP-1)	013/11/664430
Apap 2 (AP02)	013/11/664430
Apap 3 (AP03)	013/11/664430
Joe Stanley 1 (JS-1)	013/2/14701
Joe Stanley 2 (JS-2)	013/2/14701
Joe Stanley 3 (JS-3)	013/2/14701

Joe Stanley 4 (JS-4)	013/2/14701
Johndilo 1 (JD-1)	013/64/785367
Johndilo 2 (JD-2)	013/64/785367
Johndilo 3 (JD-3)	013/64/785367
Johndilo 4 (JD-4)	013/64/785367
Johndilo 5 (JD-5)	013/64/785367
Johndilo 6 (JD-6)	013/64/785367
Johndilo 7 (JD-7)	013/64/785367
Johndilo 9 (JD-9)	013/64/785367
Johndilo 10 (JD-10)	013/64/785367
Johndilo 11 (JD-11)	013/62/735555
Lipscombe 1 (LP-1)	013/100/793384
Logan Brae 1 (LB-1)	013/9/664930
Logan Brae 2 (LB-2)	013/9/664930
Logan Brae 3 (LB-3)	013/3/811322
Logan Brae 5 (LB-5)	013/6/808569
Logan Brae 6 (LB-6)	013/6/808569
Logan Brae 7 (LB-7)	013/6/808569
Logan Brae 9 (LB-9)	013/6/808569
Logan Brae 10 (LB10)	013/6/808569
Logan Brae 11 (LB11)	8/808569
Mahon 1 (MH-1)	013/5/773423
Treatment Plant	013/11/664430
Site Office	013/64/785367

The Gathering System (coloured green) and the Pilot Project Pipeline (coloured blue) in the map titled "Sydney Gas Operations Pty Ltd Camden Gas Project Petroleum Assessment Lease 1".

Proposed Development: The continued operation of the Camden Coalbed Methane project.

The proposal involves:

- Operation of the existing 20 production wells;
- Operation of 5 additional wells not yet completed and/or drilled;
- Operation of the existing and proposed gas gathering system;
- Operation of the existing gas treatment plant;
- Production of up to 93,000 GJ/month from the treatment plant;
- Sale and distribution of gas to the AGL gas network;
- Operation of the existing site office and pipeyard depot;
- Construction, drilling and operation of a directional well from LB09.

State Significant Development: The proposed development is State: Significant development by virtue of a Declaration made by the Minister for Planning on 19 December 2001 under Section 76A of the *Environmental Planning and Assessment Act 1979*.

Integrated Development: The proposal requires an additional approval from the Environment Protection Authority under the *Protection of the Environment Operations Act 1997*. Consequently it is classified as Integrated Development under Section 91 of the *Environmental Planning and Assessment Act 1979*.

BCA Classification:

Treatment Plant – Westbrook Road, Cawdor	
Class 5	- Demountable Office
Class 10	- Gas Works
	Infrastructure and Storage Containers
Office/Depot – 455 Razorback Road, Cawdor	
Class 5	- Demountable Office
Class 10	- Storage Containers and All Shelter Demountable Buildings

SCHEDULE 2

DEFINITIONS

The Act	<i>Environmental Planning and Assessment Act 1979</i>
The Applicant	Sydney Gas Operations Pty Ltd
DA	Development Application
Day	Between 7.00am and 6.00pm Monday to Saturday and 8.00am to 6.00pm Sundays and Public Holidays
The Department	The Department of Planning
The Director-General	The Director-General of the Department of Planning, or her delegate
DECC	Department of Environment and Climate Change
DPI	Department of Primary Industries
DWE	Department of Water and Energy
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
Evening	Between 6.00pm and 10.00pm
GJ	Gigajoule
LAEQ15min	Average noise level, when measured over a 15 minute period
Licence	<i>Environment Protection Licence under the Protection of the Environment Operations Act 1997</i>
Night	Between 10.00pm and 7.00am Monday to Saturday and 10.00pm and 8.00am Sundays and Public Holidays
PAL 1	Petroleum Assessment Lease No. 1
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Production Lease	Petroleum Production Lease under <i>the Petroleum (Onshore) Act 1991</i>
PRP	Pollution Reduction Program
SIS	Surface to in-seam

SCHEDULE 3

CONDITIONS OF CONSENT

GENERAL

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:
No significant issues were identified during the audit.
Compliance status:
Compliant.

Terms of Approval

2. ¹The Applicant shall carry out the development generally in accordance with the:
 - (a) DA submitted to the Department on 31 January 2002;
 - (b) *Camden Coalbed Methane Project Petroleum Production Operations – Environmental Impact Statement for the Sydney Gas Company (four volumes)*, dated December 2001 and prepared by Harvest Scientific Services;
 - (c) Letter from Sydney Gas Company dated 4 April 2002 to the EPA in relation to community complaints, lot and DP details of the treatment plant, wells and infrastructure, and map showing existing well locations;
 - (d) Letter from Sydney Gas Company dated 8 April 2002 to the EPA in relation to background noise level monitoring;
 - (e) Letter from Sydney Gas Company dated 11 April 2002 to the EPA in relation to achievable noise levels, operational flaring noise, and ongoing maintenance issues;
 - (f) Letter from Sydney Gas Company dated 11 April 2002 to the EPA in relation to nitrogen dioxide impact assessment and odour issues;
 - (g) Letter from Sydney Gas Company dated 12 April 2002 to the EPA in relation to the 3 additional wells, and maintenance activities;
 - (h) Letter from Sydney Gas Company dated 16 April 2002 to the EPA in relation to noise monitoring, noise levels, operational flaring noise, construction and maintenance activities, nitrogen dioxide assessment, and odour impact assessment;
 - (i) Letter from Sydney Gas Company dated 29 May 2002 to Planning NSW in relation to the risk assessments and drawings for the Westbrook Road to Camden Pipeline;

¹ Incorporates an EPA General Term of Approval

- (j) The modification application submitted to the Department on 11 April 2006 and the accompanying document “*Camden Gas Project Joint Venture Proposed Multiple Gas Well Modifications*” prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, dated April 2006; and
- (k) Conditions of this consent.

Evidence sighted: It was reported that the development was undertaken in accordance with the above.
Compliance status: Compliant

Period of Approval

- 3. This approval is for a period of twenty one (21) years from the date of granting of the production lease.

Evidence sighted: Noted.
Compliance status: Compliant.

Special Conditions of Approval

- 4. The Applicant shall submit a development application for a new treatment plant within two (2) years of the date of this consent. Upon the commissioning of the new treatment plant the Applicant shall cease production from the Ray Beddoe Treatment Plant and proceed to rehabilitate the site in accordance with the Site Rehabilitation Management Plan.

Evidence sighted: A DA was issued for the Rosalind Park Gas Plant and production at the Ray Beddoe Treatment Plant ceased in February 2007. The Site Rehabilitation Management Plan for RBGP was completed in March 2008 and rehabilitation recently commenced.
Compliance status: Compliant.

- 5. If after five (5) years of the date of this consent any well that is the subject of this consent has not yet been drilled or completed, then the Applicant shall surrender the approval for that well.

Evidence sighted: The five year period is now complete. LB01, LB02, LB03 have not been drilled. No additional drilling is currently planned under this DA.
Compliance status: Compliant.

6. At the expiration of ten (10) years from the date of this consent, the Applicant shall submit to the Director General a reserve report covering the petroleum production lease (PPL) area.

The report shall be prepared by an independent petroleum expert in accordance with relevant definitions approved by the Society of Petroleum Engineers and/or the World Petroleum Congress.

In the absence of a proven reserve, the Applicant shall make a further submission to the Director-General justifying why production should continue.

After reviewing this report, the Director-General may direct the Applicant to carry out certain actions (including the closure and rehabilitation of certain wells).

Evidence sighted:

Not applicable to date.

Compliance status:

Not applicable.

Note: The Production Lease to be granted by the Department of Mineral Resources will apply to the PAL 1 area, which is a much larger area than that which the development consent applies to. This consent applies to the land and structures identified in Schedule 1, being the wells, treatment plant, site depot, gas gathering system and pipeline. To minimise the impact of the development on the area, the Production Lease will include a condition which requires the Applicant to relinquish areas that have not been tested for gas production within 10 years of the granting of the lease. The Production Lease would include a condition which requires the Applicant to submit a development application for development of the Stage II production area within 3 years of the date of the production lease.

Further Approvals

7. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 25 wells) or a new treatment plant. These shall be the subject of another development consent or development consents.

Evidence sighted:

No additional wells have reportedly been drilled without a DA.

Compliance status:

Compliant.

Note: The drilling of new gas wells within the production lease area and the production of gas from them, and a new treatment plant would require development consent under the Environmental Planning and Assessment Act, 1979.

Redrilling and Refracting Management Plan

8. For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

Evidence sighted:

Noted.

Compliance status:

Compliant.

9. The Applicant shall obtain the approval of the Director-General for the redrilling and/or additional fracing of a well.

Evidence sighted:

Wells AP01 and MH01 were redrilled during the audit period. URS reviewed a letter from the Department of Planning dated 9 February 2007 confirming the approval of the Redrilling Management Plan for the AP01 and MH01 wells.

Compliance status:

Compliant.

10. The Applicant shall prepare a Redrilling and Refracting Management Plan in consultation with the Department of Mineral Resources for redrilling and/or refracting of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. The Plan shall include, but not necessarily be limited to:

- (a) a description of all the activities to be undertaken on the well site during the redrilling and/or refracting work;
- (b) details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;
- (c) reference to the relevant parts of the Environmental Management Plan required under condition 15 of this consent;
- (d) compliance with all the relevant environmental performance requirements of this consent; and arrangements for complaints handling procedures during the redrilling/refracting work.

The Applicant shall give written notification of the proposed redrilling/refracting work to potentially affected residences and other

noise sensitive receivers at least fourteen days prior to work commencing.

Evidence sighted:

AGL prepared a Redrilling Management Plan for wells AP01 and MH01. The plan complies with all the requirements in this consent. This includes a plan for consultation with the two affected landowners.

Compliance status:

Compliant.

Compliance

11. Throughout the life of the development, the Applicant shall secure, renew, maintain, and comply with all the relevant statutory approvals applying to the development.

Evidence sighted:

Noted. A list of the relevant statutory approvals is provided in the main text of this audit report.

Compliance status:

Compliant.

12. The Applicant shall take all reasonable steps to ensure that all of its employees, contractors and subcontractors are made aware of, and comply with, the conditions of this consent relevant to their respective activities.

Evidence sighted:

The requirements are included in the approved EHSMPs and the Contractor Induction. Each contractor has an AGL supervisor and is provided with a copy of the EHSMPs.

Compliance status:

Compliant.

13. ²The Applicant must, in the opinion of the EPA, be a fit and proper person to hold a licence under the Protection of the Environment Operations Act, 1997, having regard to the matters in section 83 of that Act.

Evidence sighted:

AGL Energy Limited (AGL) is considered to be a 'fit and proper person' (ABN 95 052 167 405) and holds Environment Protection Licences EPL 11713 and EPL 12003 for the Camden Gas Project.

Compliance status:

Compliant.

PRODUCTION OPERATIONS PLAN

² Incorporates an EPA General Term of Approval

14. The Applicant shall prepare a Production Operations Plan (POP) for the approval of the Department of Mineral Resources. The POP shall have regard to the conditions of this consent and the licence under the POEO Act. The POP will form the basis for the:
- (a) ongoing operations and environmental management; and
 - (b) ongoing monitoring of the development.

A copy of the POP shall be forwarded to the Department within fourteen days of the DMR's acceptance.

Evidence sighted:

A new POP has been drafted and is currently awaiting approval from the DPI. The previous POP was dated November 2004.

Compliance status:

Compliant.

ENVIRONMENTAL MANAGEMENT

Environmental Management Plan

15. ³The Applicant shall prepare and implement an Environmental Management Plan (EMP) to provide an environmental management framework, practices and procedures to be followed during the drilling and operation of the development. The EMP shall be prepared in consultation with the relevant authorities (EPA, DMR, DLWC). The EMP shall include, but not necessarily be limited to:
- (a) identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
 - (b) a description of the roles and responsibilities for all key personnel involved in the drilling and operation of the development;
 - (c) the overall environmental policies and principles to be applied to the operation of the development;
 - (d) standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved;
 - (e) management policies to ensure that environmental performance goals are met and to comply with conditions of this consent; and
 - (f) include the following detailed plans:
 - Noise Management Plan;
 - Soil and Water Management Plan;
 - Water Quality Management Plan;
 - Traffic Management Plan;
 - Vegetation and Landscape Management Plan;
 - Waste Management Plan; and
 - Site Rehabilitation Management Plan

³Incorporates an EPA General Term of Approval

Evidence sighted: EHSMPs have been developed and approved.
Compliance status: Compliant.

16. The EMP shall be submitted for the approval of the Director-General within three months of the date of this consent, or within such period otherwise agreed by the Director-General.

Evidence sighted: EHSMPs have been developed and approved.
Compliance status: Compliant.

17. The Applicant shall supply a copy of the EMP to the EPA, DLWC, DMR, Wollondilly Council and Camden Council within fourteen days of the Director-General's approval. The Applicant shall ensure that a copy of the EMP is publicly available.

Evidence sighted: Pre-audit period.

18. The Applicant shall review and update the EMP regularly, or as directed by the Director-General.

Evidence sighted: The EHSMPs are to be replaced shortly by the new EMS and sub-plans. Prior to this a review and update of the EHSMPs was undertaken in October 2007.
Compliance status: Compliant.

Note: Submission of a copy of the approved Plan to other Government agencies does not mean that their approval is required. The Plan is for the information of the agency

Noise Management Plan

19. The Applicant shall prepare and implement a Noise Management Plan for the whole site. The Plan shall include, but not necessarily be limited to:
- (a) identification of the potential sources of noise during drilling and operation;
 - (b) the noise criteria for these activities;
 - (c) details of what actions and measures would be implemented to ensure that these operations would comply with the relevant noise criteria;

- (d) describe how the effectiveness of these actions and measures would be monitored during the life of the development, clearly indicating who would conduct the monitoring, how often this monitoring would be conducted, how the results of this monitoring would be recorded and reported to the Director-General, and if any non-compliance is detected; and
- (e) describe what procedures would be followed to ensure compliance.

Evidence sighted:

A noise management plan is incorporated into the EHSMPs. Under the new EMS there will be a separate noise management sub-plan.

Compliance status:

Compliant.

Soil and Water Management Plan

20. ⁴The Applicant shall prepare and implement a Soil and Water Management Plan (SWMP) for the whole site. This plan shall include, but not necessarily be limited to:
- (a) the measures to be implemented to minimise the potential for soil erosion and the discharge of
 - (b) sediment and other pollutants to lands and/or waters during drilling activities;
 - (c) the measures to be implemented to mitigate the impacts of stormwater run-off from and within the site following the completion of drilling activities;
 - (d) demonstrate that erosion and sedimentation control measures will conform with, or exceed, the relevant requirements and guidelines contained in the Department of Housing’s Managing Urban Stormwater: Soils and Construction;
 - (e) consistency with the stormwater management plan for the catchment, should one exist, or with the EPA’s Managing Urban Stormwater: Council Handbook should a stormwater management plan for the catchment not exist;
 - (f) measures to rehabilitate erosion-affected areas and areas the subject of excavation, including tree, shrub and/or cover crop species and implementation; and
 - (g) management procedures for all surface and groundwater collection and storage structures on the site, including a maintenance program for associated infrastructure (eg. pipes, pumps, dam walls, etc.) and a program for desilting of those structures, where relevant.

Evidence sighted:

SWMPs have been approved for all wells on an individual basis. Under the new EMS there will be a generic SWMP, which is currently being developed.

Compliance status:

⁴ Incorporates an EPA General Term of Approval

Compliant.

Water Quality Management Plan

21. The Applicant shall prepare and implement a Water Quality Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (a) provide details of an appropriate soil sampling and monitoring program to ensure that areas used for waste water application do not lead to an unacceptable build-up of salts within the soil profile;
 - (b) implement a program of regular testing of waste water quality for compounds, nutrients and metals, as outlined in Table 7.8 of the EIS; and
 - (c) details of the well maintenance procedures to ensure the integrity of the well isolation components to prevent the cross contamination of groundwater aquifers.

Evidence sighted:

Pre-audit period.

Traffic Management Plan

22. The Applicant shall prepare and implement a Traffic Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (a) Identification of the potential traffic and transport impacts associated with the development and measures to limit traffic movements in the PAL 1 area;
 - (b) restrictions on the movement of heavy vehicles during school pick-up/drop-off times;
 - (c) details of traffic management measures associated with the construction of pipelines within public roads; and
 - (d) measures to reduce the transportation of plant material and/or dirt off site.

Evidence sighted:

Pre-audit period.

Vegetation and Landscape Management Plan

23. The Applicant shall prepare and implement a Vegetation and Landscape Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (a) measures to protect mature trees as part of the well drilling or gas gathering pipeline construction activities;
 - (b) details of all landscaping to be undertaken on the site;
 - (c) ensure that tree and shrub species used for landscaping of the site are indigenous to the locality; and

- (d) details of a program to ensure that all landscaped areas are maintained in a tidy, healthy state.

Evidence sighted:

Pre-audit period.

Waste Management Plan

24. The Applicant shall prepare and implement a Waste Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (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.

Evidence sighted:

Pre-audit period.

Site Rehabilitation Management Plan

25. The Applicant shall prepare and implement a Site Rehabilitation Management Plan for the whole site. This plan shall include, but not necessarily be limited to:
- (a) details of the staging and timing for rehabilitation works;
 - (b) ongoing management strategies to ensure the success of rehabilitation works;
 - (c) details of the establishment of vegetation and all landscaping to be undertaken including flora species, location of grassed areas, garden beds and other vegetated areas, and mature height and width measurements of all flora species; and
 - (d) the measures to remediate sites following the decommissioning of the wells, pipelines and treatment plant.

Evidence sighted:

The Site Rehabilitation Management Plan dated March 2008 includes elements a, b and d. It does not include details of flora species, location of grassed areas, garden beds and other vegetated areas and mature height and width measurements of flora species. However, it does refer to the Landscape Plan, which does contain these elements.

Compliance status:

Compliant.

PERFORMANCE REPORTING

Condition Report

26. The Applicant shall prepare a Condition Report on residences and structures that may be potentially affected by drilling/fracking work, including the redrilling and refracking of an existing well.

The Applicant shall undertake an inspection of the residence and/or structure prior to work commencing, and a follow up inspection within one month of the completion of the work. The Applicant shall take immediate action for repair of any damage to the residence or structure as a result of the work and to avoid any further damage. A copy of the Condition Report shall be submitted to the Director-General and the DMR after completion of the work.

Evidence sighted:

Pre-audit period.

Incident Reporting

27. The Applicant shall notify the EPA, DMR and the Director-General of any incident with significant off-site impacts on people or the biosphere environment as soon as practicable after the occurrence of the incident. The Applicant shall provide written details of the incident to the Director-General, the EPA, DMR, Wollondilly Council and Camden Council within seven days of the date on which the incident occurred.

Evidence sighted:

No incidents have been reported.

Compliance status:

Not applicable.

28. The Applicant shall meet the requirements of the Director-General to address the cause or impact of any incident, as it relates to this consent, reported in accordance with condition 27 of this consent, within such period as the Director-General may agree.

Evidence sighted:

No incidents have been reported.

Compliance status:

Not applicable.

Complaints Register

29. The Applicant shall record details of all complaints received in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:

- (a) the date and time, where relevant of the complaint;
- (b) the means by which the complaint was made;
- (c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
- (d) the nature of the complaints;
- (e) any action(s) taken by the Applicant in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the Applicant in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the EPA or the Director-General upon request. The Applicant shall also make summaries of the register, without details of the complainants, available for public inspection.

Evidence sighted:

The auditor viewed the complaints register and complaints are recorded in accordance with this CoC and reported in the AEPR.

Compliance status:

Compliant.

Risk Assessment

- 30. Within six months from the date of this consent, the Applicant shall submit a compliance report to the Director-General confirming that the recommendations (1 to 17) made in the Quantified Risk Assessment dated September 2000 by McCracken Consulting have been satisfactorily implemented. Where a recommendation has not been implemented or completed, justification must be provided in the compliance report.

Evidence sighted:

Pre-audit period.

- 31. Within six months from the date of this consent, the Applicant shall submit a compliance report to the Director-General confirming that the actions (1 to 66 and A to SS) arising from the HAZOP study report dated May 2001 by McCracken Consulting have been satisfactorily implemented. Where an action has not been implemented or completed, justification must be provided in the compliance report.

Evidence sighted:

Pre-audit period.

- 32. Within six months from the date of this consent, the Applicant shall submit for approval by the Director-General, a document setting out a comprehensive Safety Management System, covering all operations on site and associated transport activities involving hazardous materials. The document shall clearly specify all safety related procedures,

responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on site and shall be available for inspection by the Director-General on request. The Safety Management System shall be developed in accordance with the Department of Urban Affairs and Planning's Hazardous Industry Planning Advisory Paper No. 9 "Guidelines for the Development of Safety Management Systems".

Evidence sighted:

Pre-audit period.

EPA Annual Return

33. The applicant shall provide an Annual Return to the EPA in relation to the development as required by any licence under the POEO Act. In the return the Applicant shall report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with licence conditions and provide a calculation of fees (administrative fees and where relevant, load based fees) that are payable. If load based fees apply to the activity the Applicant will be required to submit load based fee calculation worksheets with the return.

Evidence sighted:

Annual returns from 2006 - 2007 were observed on the DECC's publicly accessible website to have been submitted. RBTP closed in February 2007.

Compliance status:

Compliant.

Annual Environmental Performance Reporting

34. Within twelve months of the date of this consent, and annually thereafter during the life of the development, the Applicant shall submit an Annual Environmental Performance Report to the Director-General. This report shall include, but not be limited to:
- (a) the standards, performance measures and statutory requirements the development is required to comply with;
 - (b) an assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
 - (c) copy of the Complaints Register for the preceding twelve month period and indicating what actions were (or are being) taken to address these complaints;
 - (d) indication of what actions were taken to address any issue and/or recommendation raised by the Community Consultative Committee;
 - (e) provision of the detailed results of all the monitoring required by this consent; and
 - (f) review of the results of this monitoring, identifying any non-compliance and any significant trends in the data and if any non-

compliance is detected, describe what actions and measures would be carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time.

Evidence sighted:

AEPRs have been submitted as required. The 2007 – 2008 AEPR is currently being reviewed prior to submission.

Compliance status:

Compliant.

35. The Director-General may require the Applicant to address certain matters identified in the Annual Environmental Performance Report. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:

Viewed a copy of AGL's timetable for the implementation of outstanding Recommended Actions from 2006 / 2007 AEPR. This has been forwarded to the DoP for comment.

Compliance status:

Compliant.

36. The Applicant shall also submit a copy of the Annual Environmental Performance Report to the EPA, DMR, DLWC, Wollondilly Council and Camden Council. The Applicant shall make a copy of the Report publicly available.

Evidence sighted:

Evidence that the most recent AEPR was sent to the Councils, DECC and DPI was observed, dated 17 December 2007.

The 2006 – 2007 AEPR is available on the AGL website.

Compliance status:

Compliant.

Independent Environmental Audit

37. Within two years of the date of this consent and every two years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
 - (b) be consistent with ISO 14010 – Guidelines and General Principles for Environmental Auditing, and ISO 14011 – Procedures for Environmental Auditing, or updated versions of these guidelines/manuals;

- (c) assess the environmental performance of the development, and its effects on the surrounding environment;
- (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (e) review the adequacy of the Applicant's Environmental Management Plan; and
- (f) recommend measures or actions to improve the environmental performance of the development, and/or its environmental management and monitoring systems.

Within two months of commissioning the audit, the Applicant must submit a copy of the audit report to the Director-General and the EPA and the DMR. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the EPA and DMR . Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:

The initial audit was delayed and covered the July 2004 – June 2006 period. The following audit took place less than two years after and covers the July 2006 - June 2008 period.

Compliance status:

Compliant.

ENVIRONMENTAL PERFORMANCE

Noise Limits

- 38. The Applicant shall comply with the noise criteria specified in the table below.

Table 1 – Noise Limits (dB(A))

Location (identified in Fig 10.1 of the EIS)	Day L _{AEQ15min}	Evening L _{AEQ15min}	Night L _{AEQ15min}
Receiver Locations B, C and F	37	37	37
Receiver Locations D, E and G to M	37	37	35
Any other residential receiver	35	35	35

Evidence sighted:

Independent noise tests are carried out annually at the Ray Beddoe Treatment Plant (RBTP). Given the closure of the plant in February 2007, the last noise monitoring was carried out in June 2006. This was detailed within the previous audit report.

Compliance status:

Not-applicable.

- 39. For the purposes of assessment of noise levels specified in this consent, noise from the development shall be:

- (a) measured at the most affected point on or within the residential boundary or, where the dwelling is more than 30m from the boundary, at the most affected point within 30m of the dwelling to determine compliance with the LAEQ15min, LAEQday, LAEQevening and LAEQnight noise limits;
- (b) subject to the modification factors provided in Section 4 of the NSW Industrial Noise Policy; and
- (c) measured using the “FAST” response on the sound level meter.

Evidence sighted:

The last round of noise monitoring took place in June 2006 (pre-audit period) and the RBTP facility was closed in February 2007.

Compliance status:

Not-applicable.

40. Notwithstanding condition 39 of this consent, should direct measurement of noise from the site be impractical, the Applicant may employ an alternative noise assessment method deemed acceptable by the EPA (refer to Chapter 11 of the NSW Industrial Noise Policy). Details of such an alternative noise assessment method accepted by the EPA shall be submitted to the Director-General prior to the implementation of the assessment method.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

41. All noise limits specified as part of this consent apply under:
- (a) wind speeds up to 3m/s at 10 metres above ground level; and
 - (b) temperature inversion conditions of up to 3 °C/100m.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

Noise – Well Maintenance

42. The Applicant shall apply all feasible and reasonable noise mitigation measures to planned well maintenance activities in order to achieve the noise limits specified by this consent. Where the noise limits are not achievable the Applicant shall implement management practices as necessary to minimise the potential noise impacts. These management practices are to include, but not be limited to:

- (a) appropriately informing affected residences and other relevant parties at least two weeks in advance of any planned well maintenance activities and updating the information as required;
- (b) documenting and implementing any specific work practices the Applicant will employ to limit noise;
- (c) documenting the feasible and reasonable noise mitigation measures that will be undertaken to reduce noise impacts from planned well maintenance activities; and
- (d) conducting noise monitoring where appropriate.

Evidence sighted:

Maintenance on wells constructed under this consent is reportedly minimal (comprising inspecting the flow rate up to two times per week and unblocking as required) and is undertaken during day time hours.

Compliance status:

Compliant.

Noise – Drilling Impacts

43. The Applicant shall implement management practices as necessary to minimise the potential noise impacts from drilling work at wells LB-1, LB-2 and LB-3. These management practices are to include, but not be limited to:
- (a) identifying all potentially affected noise sensitive receivers (including residences, schools, commercial premises and noise sensitive equipment) that may be affected by drilling work at these wells;
 - (b) predicting potential noise levels from the proposed well drilling methods where appropriate;
 - (c) identifying and implementing all reasonable and feasible noise mitigation measures to reduce any drilling noise impacts;
 - (d) documenting and implementing any specific work practices the Applicant will employ to limit noise; conducting noise monitoring where appropriate; and
 - (e) appropriately informing affected residences and other relevant parties at least two weeks in advance of any drilling work at wells LB-1, LB-2 and LB-3 and updating the information as required.

Evidence sighted:

Wells LB-1, LB-2 and LB-3 have not been drilled.

Compliance status:

Not applicable.

Hours of Operation

44. All site preparation works and construction activities and specifically those works involving the drilling of wells LB-1, LB-2 and LB-3, except where the Applicant has reached an agreement with all potentially affected residences and other noise sensitive receivers to conduct drilling works outside these hours, shall be restricted to the following times:

- (a) from 7.00am to 6.00pm, Monday to Friday inclusive;
- (b) from 8.00am to 1.00pm on Saturdays; and
- (c) at no time on Sunday or a public holiday.

Evidence sighted: Wells LB-1, LB-2 and LB-3 have not been drilled.
Compliance status: Not applicable.

45. Notwithstanding condition 44 of this consent, the specified hours of operation also apply to:

- (a) planned maintenance activities at any of the wells;
- (b) planned deliveries to the treatment plant; and
- (c) planned maintenance activities at the treatment plant.

except where the Applicant has reached an agreement with all potentially affected residences and other noise sensitive receivers, to conduct maintenance works outside these hours.

Evidence sighted: Wells LB-1, LB-2 and LB-3 have not been drilled.
Compliance status: Not applicable.

46. Condition 44 of this consent does not apply to the delivery of materials outside the specified hours of operation if that delivery is required by, the police or other authorities for safety reasons, and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification is provided to the EPA and affected residences as soon as possible, or within a reasonable period in the case of an emergency.

Evidence sighted: Wells LB-1, LB-2 and LB-3 have not been drilled.
Compliance status: Not applicable.

47. The hours of operation specified in condition 44 of this consent may be varied with the written consent of the Director-General, if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.

Evidence sighted: Wells LB-1, LB-2 and LB-3 have not been drilled.
Compliance status: Not applicable.

Ray Beddoe Treatment Plant –Reduction of Noise

48. The Applicant shall prepare and submit to the Department and the EPA a Pollution Reduction Program (PRP) for noise designed to meet the following levels at receiver Locations A to M (identified in Fig. 10.1 of the EIS)”
- (a) an LAEQ15min level of 37 dB(A) for the day time period;
 - (b) an LAEQ15min level of 37 dB(A) for the evening period; and
 - (c) an LAEQ15min level of 35 dB(A) for the night time period.

These levels are to apply at the most affected point on or within the residential boundary of each nominated receiver or, where the dwelling is more than 30m from the boundary, at the most affected point within 30m of the dwelling.

Evidence sighted:
Pre-audit period.

49. If the Applicant determines that the levels set out in condition 48 of this consent cannot be achieved after all feasible and reasonable mitigation measures have been implemented, then the Applicant is to advise the Department and EPA of the levels that can be feasibly and reasonably achieved.

Evidence sighted:
Pre-audit period.

50. The PRP is to be submitted to the Department and the EPA within six months of the date of the consent for the development. PRP implementation is to be undertaken in the period from six months to eighteen months from the date of development consent.

Evidence sighted:
Pre-audit period.

51. The PRP shall include a timetable for the implementation of mitigation measures. If the implementation of mitigation measures is to progress in stages, then the PRP is to specify the noise levels that will be achieved following the implementation of each intermediate stage.

Evidence sighted:
Pre-audit period.

Odour

52. Environment Operations Act 1997, the Applicant shall not cause or permit any offensive odours to be emitted from the site. For the purposes of this condition, “offensive odour” has the same meaning as provided for by the *Protection of the Environment Operations Act 1997*.

Evidence sighted:

No odour complaints have reportedly been received within the audit period. The odorant has now been removed from the facility. There were no issues during removal.

Compliance status:

Compliant.

Water Quality Impacts

53. Except as may be expressly provided for by a licence under the *Protection of the Environment Operations Act 1997*, the Applicant shall comply with section 120 of the *Protection of the Environment Operations Act 1997* in carrying out the development.

Evidence sighted:

No water quality impacts were observed at the time of the site visit. Soil samples from the banks of the dam were tested and no issues were reportedly identified.

Compliance status:

Compliant.

Waste Water

54. Waste water from the construction, installation and operation of wells and associated infrastructure shall only be applied to the following areas:
- (a) dust suppression on any unsealed roads within PAL 1;
 - (b) irrigated onto pastures within PAL 1;
 - (c) evaporation dam; and
 - (d) reinjection into gas wells.

The Applicant shall prepare a detailed feasibility study of reinjection of waste water into a gas well if this method of disposal of waste water is proposed. The approval of the Director-General shall be obtained for reinjection of waste water into a gas well.

Note: Section 120 of the *Protection of the Environment Operations Act 1997* applies to the disposal of waste water. This section refers to the pollution of waters.

Evidence sighted:

Re-injection of wastewater is not undertaken.

Compliance status:

Not applicable.

55. Spray from waste water application shall not drift beyond the boundary of the waste water utilisation area to which it is applied.

Evidence sighted:

Wastewater application is not undertaken.

Compliance status:
Not applicable.

56. The Applicant shall ensure that areas proposed to be used for waste water application can effectively utilise the waste water. This includes the use for pasture or crop production, as well as ensuring the soil is able to absorb the nutrients, salts, hydraulic load and organic materials in the liquids. The Applicant may be required to undertake monitoring of land and receiving waters to determine the impact of waste water application.

Evidence sighted:

Wastewater application is not undertaken.

Compliance status:
Not applicable.

57. The Applicant shall ensure that all waste water that is used for dust suppression and/or irrigation has a salinity measure that does not exceed 800 $\mu\text{S/cm}$.

Evidence sighted:

Wastewater application is not undertaken.

Compliance status:
Not applicable.

Dust

58. The Applicant shall ensure that activities are carried out in a manner that will minimise the emission of dust from the site, including traffic generated dust from the site access roads.

Evidence sighted:

Dust does not appear to be a significant issue for the operating site. Speed restrictions of 20km/h are enforced along any unsealed road. AGL also has the use of a water cart when required.

Compliance status:
Compliant.

59. The Applicant shall take all practicable measures to ensure that all vehicles entering or leaving a site, carrying a load that may generate dust, are covered at all times, except during loading and unloading. Any such vehicles shall be covered or enclosed in a manner that will prevent emissions of dust from the vehicle at all times.

Evidence sighted:

The requirement is contained within the Contractor Induction. There have been no complaints regarding dust.

Compliance status:
Compliant.

60. The Applicant shall take all practicable measures to minimise the generation of wind-blown dust from soil stockpiles.

Evidence sighted:

Temporary stockpiles are created as result of trench excavation for the gas gathering lines. These are used as infill usually on the same day. Management strategies in relation to stockpiles are included in the EHSMPs.

Compliance status:

Complaint.

Waste

61. 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*. This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the site, if it requires a licence under the *Protection of the Environment Operations Act 1997*.

Evidence sighted:

No waste is reportedly received at the site.

Compliance status:

Compliant.

62. Notwithstanding condition 61 of this consent, the Applicant may dispose of waste water generated on the site in accordance with condition 54 of this consent.

Evidence sighted:

No waste is reportedly received at the site.

Compliance status:

Compliant.

Lighting

63. The Applicant shall ensure that all external lighting associated with the development is mounted, screened and directed in such a manner so as to not create a nuisance to surrounding land uses. The lighting must be the minimum level of illumination necessary, and in general accordance with the *Australian Standard 4282 – 1997 Control of the Obtrusive Effects of Outdoor Lighting*.

Evidence sighted:

Pre-audit period.

Gas Flare

64. The gas flare located at the treatment plant shall be ground-level (ie. Less than 6.1 metres in height), shrouded, provided with automatic

combustion air control, automatic shut-off gas valve and automatic restart system.

Note This condition confirms the existing gas flare structure and specifications.

Evidence sighted:

Pre-audit period

Activated Carbon Filter

65. The activated carbon filter on the odour control system shall be replaced prior to breakthrough occurring.

Evidence sighted:

This was reportedly undertaken. No breakthroughs occurred prior to closure in February 2007.

Compliance status:

Compliant.

Steel Pipeline

66. The 200 mm steel pipeline shall not be operated above a pressure of 1.05 MPa.

Evidence sighted:

The pipeline was reportedly operated below a pressure of 1.05 MPa. The pipeline has now been closed off by Alinta.

Compliance status:

Compliant.

67. The Director-General's approval shall be obtained to operate the steel pipeline pressure above 1.05 MPa. An application to operate the steel pipeline at a higher pressure shall be accompanied by:
- (a) a Final Hazard Analysis of the proposal including the entire steel pipeline and those sections of the plant where the operating pressure will be increased. The analysis shall be prepared in accordance with the Department of Urban Affairs and Planning's Hazardous Industry Planning Advisory Paper No. 6 "Guidelines for Hazard Analysis". The existing land use and compliance with NSW criteria shall be clearly demonstrated. Where further risk reduction could be required as a result of changes in land use, additional risk reduction measures shall be outlined; and
 - (b) a Hazard and Operability Study for the proposal, chaired by an independent qualified person approved by the Director-General prior to the commencement of the study. The study shall be carried

out in accordance with the Department of Urban Affairs and Planning's Hazardous Industry Planning Advisory Paper No. 8 "Hazard and Operability Studies".

Evidence sighted: Not applicable.
Compliance status: Not applicable.

Gas Gathering System Pipeline

68. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:
- (a) excavated trenches shall not be left uncovered overnight, unless adequate fencing and warning lights are erected;
 - (b) signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
 - (c) trenches are to be restored and reseeded with local grass seeds on completion of the work;
 - (d) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
 - (e) the pipeline shall be constructed in accordance with the AS 3723-1989; and
 - (f) the Department shall be notified on the completion of any trenching works.

Evidence sighted: Wells relating to the Stage 1 development were connected to the RPGP during this audit period. The procedure for construction of the gas gathering lines is adequately described in the relevant EHSMP. The auditor viewed correspondence from AGL informing the DPI of the twinning of the gas gathering line. No trenching works were observed during the site visit.
Compliance status: Compliant.

LPG Storage

69. The LPG storage and handling system and procedures shall be in accordance with AS 1596-2002 and industry guidelines.

Evidence sighted: A 60,000L butane tank was present on the Ray Beddoe gas plant property. It was reportedly owned and managed by Kleenheat. The tank was removed from the site in 2007.
Compliance status: Compliant.

Indigenous Heritage

70. Prior to the commencement of site preparation works for the three (3) additional wellheads and the associated gas gathering system, the Applicant shall clearly indicate the locations of known aboriginal relics on the site, and ensure that all employees and contractors are aware of these locations, to prevent the known relics being impacted upon during site preparation and construction.

Evidence sighted:

Aboriginal groups were consulted during the application for redrilling of the Apap site and the upgrading of the Logan Brae gas gathering line. No additional issues were identified.

Compliance Status:

Compliant.

Cultural Heritage

71. If, during the site preparation and/or drilling phases of the development, an unexpected archaeological relic is uncovered, excavation shall cease and an excavation permit under the Heritage Act 1977, shall be obtained from the NSW Heritage Office.

Note: a relic is defined under the Heritage Act as any deposit, object or material evidence:

- (a) which relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and
- (b) which are more than 50 years old.

Evidence sighted:

No archaeological relics have reportedly been uncovered during excavations.

Compliance Status:

Not Applicable

Site Rehabilitation

72. The Applicant shall ensure the prompt and effective rehabilitation of all disturbed areas of the site following the completion of construction, operations and associated activities and/or the decommissioning of plant, to minimise the generation of wind erosion dust.

Evidence sighted:

Rehabilitation of well sites (under different DAs) was observed during the site visit. Wind erosion dust does not appear to be an issue.

Compliance status:

Compliant.

73. The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DMR and the Site Rehabilitation Management Plan.

<p>Evidence sighted: Initial rehabilitation around wells was undertaken prior to this audit period. Rehabilitation of the RBTP is continuing in accordance with the approved Site Rehabilitation Management Plan.</p>
<p>Compliance status: Compliant.</p>

ENVIRONMENTAL MONITORING

Land Subsidence

74. The Applicant shall implement a program to monitor any potential land subsidence effects of long term extraction of gas (and water) on the groundwater resource in the PAL 1 area. The Applicant shall consult with the DLWC over the implementation of the monitoring program. The monitoring program shall be submitted for the Director-General's approval.

<p>Evidence sighted: Subsidence has reportedly been assessed and is not a significant issue for gas extraction. Trenched areas are monitored after rehabilitation. Subsidence was not observed to be an issue during the audit.</p>
<p>Compliance status: Compliant.</p>

Vibration Impacts

75. The Applicant shall carry out monitoring of ground vibrations from well drilling activities (including percussion drilling, casing perforation, hydrofracturing operations and air blasts), as recommended by Coffey Geosciences report titled "Camden Coalbed Methane Project Geotechnical Impact Assessment" and dated 5 December 2001. The results of the monitoring shall be submitted to the Director-General.

<p>Evidence sighted: Pre-audit period. Fracking is reportedly the only source of localised vibration. Fracking occurs for a duration of approximately 2 hours at each well.</p>
--

Air Emissions

76. For the purposes of this consent air discharge monitoring points, shall be identified as provided in Table 2 below.

Table 2 – Identification of Air Discharge Monitoring Points

Discharge	Type of	Type of	Description of Location
-----------	---------	---------	-------------------------

Monitoring Point Identification Number	Monitoring Point	Discharge	
1	Air emissions monitoring	Discharge to air	TEG reboiler exhaust (<i>located on the dehydrator unit as shown in Fig. 3.9 of the EIS</i>)
2	Air emissions monitoring	Discharge to air	Flare (<i>located on the southern corner of the Treatment Plant as shown in Fig. 3.9 of the EIS</i>)
3	Air emissions monitoring	Air	Coal seam methane gas supply to TEG reboiler (<i>located on the dehydrator unit as shown in Fig 3.9. of the EIS</i>)
4	Air emissions monitoring	Discharge to air	Odour control system exhaust (<i>located between the dehydrator unit and final gas filter as shown in Fig 3.9. of the EIS</i>)

Evidence sighted:

Noted.

Compliance status:

Noted.

Load Limits

77. The Applicant will be required to pay load based licensing fees once a licence under the POEO Act has been issued. The licence will identify the assessable pollutants and load limits for each fee-based activity classification. These assessable pollutants will be required to be monitored and pollutant loads calculated in accordance with the EPA's Load Calculation Protocol. The assessable pollutants and load limits applicable to this development are given in Table 3 below.

Table 3 – Assessable Pollutant Load Limit

Assessable Pollutant	Load Limit (kg)
Benzene	Applicant to negotiate with the EPA prior to issue of the licence
Benzo (a) pyrene	Applicant to negotiate with the EPA prior to issue of the licence
Fine particles	Applicant to negotiate with the EPA prior to issue of the licence
Hydrogen sulfide	Applicant to negotiate with the EPA prior to issue of the licence
Nitrogen oxides	Applicant to negotiate with the EPA prior to issue of the licence
Sulfur oxides	Applicant to negotiate with the EPA prior to issue of the licence
VOC's	Applicant to negotiate with the EPA prior to issue of the licence

Note – An assessable pollutant is a pollutant which affects the licence fee payable for the licence. The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutants in Table 3.

Testing Method – Load Limits

Evidence sighted:

Load base licensing fee paid, as noted on the DECC website.

Compliance status:

Noted.

78. Clause 17(1) and (2) of the Protection of the Environment Operations (General) Regulation 1998 requires that monitoring of actual loads of assessable pollutants listed in Table 3 of condition 78 of this consent shall be carried out in accordance with the testing method set out in the relevant load calculation protocol for the fee-based activity classification.

Evidence sighted:

Noted.

Compliance status:

Noted.

Concentration Limits

79. The Applicant shall ensure that the concentration of each pollutant listed in Table 4 below does not exceed the concentration limits specified for that pollutant at discharge monitoring point 1. This condition does not authorise the discharge or emission of any other pollutants.

Table 4 – Point 1 : Concentration Limits

Pollutant	Units of measure	100 percentile limit	Reference conditions
Nitrogen oxides	g/m3	0.35	Dry, 273 K, 101.3 kPa, 7% O2
Sulphuric acid mist and/or sulphur trioxide	g/m3	0.1	Dry, 273 K, 101.3 kPa

Evidence sighted:

The last round of monitoring at RBTP took place in June 2006, the results of which are described in the 2004 – 2006 audit report. The annual monitoring found elevated concentrations of NO_x from the Gas Engine Exhaust, this appeared to be corrected after routine maintenance.

Within the RBTP Annual Returns for 2006 - 2007, AGL advised the DECC that air emissions from the RBTP was unable to be monitored during the reporting period as the plant ceased operations on the 05 February 2007. During the

Annual Returns reporting period, the plant was only operational for 138 days between 17 September 2006 and 05 February 2007. Throughout this period, the plant continued standard operations and no public complaints were received regarding air emissions.

Compliance status:
Compliant.

Destruction Efficiency

80. The Applicant shall ensure that each parameter listed in Table 5 below are equal to or greater than the lower limits specified for that parameter at discharge monitoring point

Table 5 – Discharge Monitoring Point 1: Destruction Efficiency

Parameter	Units of Measure	Lower limit	Reference Conditions
Volatile organic compound (VOC) destruction efficiency	%	98	N/A

Evidence sighted:

The AGL production manager confirmed compliance for TEG reboiler exhaust, which is detailed in the design specifications.

Compliance status:
Compliant.

Combustion Parameters

81. The Applicant shall ensure that each parameter listed in Table 6 below (over the averaging period) is equal to or greater than the lower limit specified for that parameter at discharge monitoring point 2.

Table 6 – Discharge Monitoring Point 2 : Combustion Parameter

Parameter	Units of Measure	Lower limit	Averaging Period
Residence time	s	0.6	Instantaneous
Temperature	°C	760	Instantaneous

Evidence sighted:

The AGL production manager confirmed compliance for the flare.

Compliance status:
Compliant.

Site Specific Emission Concentration Limit

82. The Applicant shall submit a report to the EPA, which includes a site specific emission concentration limit for sulfuric acid mist and/or sulfur trioxide (as SO₃) and sulfur dioxide for discharge monitoring point 1. The

date of submission of the report shall be negotiated with the EPA prior to the issue of the licence.

Evidence sighted:

Pre-audit period.

83. The emission concentration limits shall be developed in accordance with the Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in NSW and utilise the ground-level concentration criteria specified in Table 7 below.

Table 7 – Site Specific Emission Concentration Limit

Pollutant	Design Ground-Level Concentration Criteria (ug/m ³)	Averaging Time	Percentile
Sulfuric acid mist and/or sulfur trioxide (as SO ₃)	27	3 minutes	99.9
Sulfur dioxide	712	10 minutes	100
	570	1 hour	100

Evidence sighted:

Noted.

Compliance status:

Noted.

Monitoring Records

84. The Applicant shall record and retain the details of any monitoring required as a condition of this consent or a licence under the POEO Act, in relation to the development or in order to comply with the load calculation protocol.

Evidence sighted:

Results are maintained.

Compliance status:

Compliant.

85. The monitoring required under this consent for the concentration of a pollutant emitted to the air, shall be carried out in accordance with:
- (a) any methodology which is required under the POEO Act to be used for the testing of the concentration of the pollutant; or
 - (b) if no such requirement is imposed by or under the POEO Act or by the consent or a condition of the licence or the protocol (as the case may be) requires to be used for that testing; or
 - (c) if no such requirement is imposed by or under the POEO Act or by the consent or a condition of the licence or the protocol (as the case may be), any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Clean Air (Plant and Equipment) Regulation 1997* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "*Approved Methods for the Sampling and Analysis of Air Pollutants in NSW*".

Evidence sighted:

Noted.

Compliance status:

Noted.

86. All records required to be kept by the licence shall be:

- (a) in a legible form, or in a form that can readily be reduced to a legible form;
- (b) kept for at least four years after the monitoring or event to which they relate took place; and
- (c) produced in a legible form to any authorised officer of the EPA who asks to see them.

Evidence sighted:

Noted.

Compliance status:

Noted.

87. The following records shall be kept in respect of any samples required to be collected:

- (a) the date(s) on which the sample was taken;
- (b) the time(s) at which the sample was taken;
- (c) the point at which the sample was taken; and
- (d) the name of the person who collected the sample.

Evidence sighted:

This information is recorded on the chain of custody form sent to the laboratory and includes the dates and times at which the sample was taken, the name of the person who took the sample and the sample identification number. The sample identification number allows AGL to identify the location at which the sample was taken.

Compliance status:

Complaint

Requirement to Monitor Concentrations of Pollutants Discharged

88. The Applicant shall determine the relevant pollutant concentrations and emission parameters specified in Table 8 below, at the discharge monitoring points indicated and employing the sampling and analysis method specified. All relevant pollutant concentrations and emission

parameters for each discharge monitoring point shall be determined concurrently and at the frequency specified in the table. The discharge monitoring points are specified in condition 76 of this consent.

Table 8 – Discharge Monitoring Point Pollutant and Parameter Monitoring

Pollutant	Discharge Monitoring Point	Unit of Measure	Frequency	Sampling Method
carbon dioxide in stack gases	1 and 3	%	Annual	TM-24
carbon monoxide	1	ppm	Annual	OM-1
dry gas density	1 and 3	kg/m ³	Annual	TM-23
moisture content in stack gases	1 and 3	%	Annual	TM-22
molecular weight of stack gases	1 and 3	g/gmole	Annual	TM-23
nitrogen oxides	1	g/m ³	Annual	TM-11
oxygen in stack gases	1 and 3	%	Annual	TM-25
sulfur dioxide	1	g/m ³	Annual	TM-4
sulfuric acid mist and/or sulfur trioxide	1	g/m ³	Annual	TM-3
temperature	1 and 3	0C	Annual	TM-2
	2	0C	Continuous	TM-2
tertiary butyl mercaptan	4	Note1	Note1	Note1
velocity	1 and 3	m/s	Annual	TM-2
volatile organic compounds (VOC)	1 and 3	ppm	Annual	OM-2
volumetric flow rate	1 and 3	m ³ /s	Annual	TM-2
	2	m ³ /s	Continuous	CEM-6

Note¹ : Units of measure, frequency and sampling method to be approved by the EPA in writing.

Evidence sighted:

The last round of monitoring at RBTP took place in June 2006, the results of which are described in the 2004 – 2006 audit report.

Within the RBTP Annual Returns for 06/07, AGL advised the DECC that air emissions from the RBTP was unable to be monitored during the reporting period as the plant ceased operations on the 05 February 2007. During the Annual Returns reporting period, the plant was only operational for 138 days between 17 September 2006 and 05 February 2007. Throughout this period, the plant continued standard operations and no public complaints were received regarding air emissions. AGL has had no further comments back from the DECC on this issue.

Compliance status:

Compliant.

89. The selection of sampling positions is to be carried out in accordance with test method TM-1.

Evidence sighted:

Noted.

Compliance status:

Noted.

Community Consultative Committee

90. The Applicant shall establish a Community Consultative Committee to oversee the environmental performance of the development. This Committee shall:

- (a) be chaired by an independent chairperson approved by the Director-General in consultation with the Applicant, Wollondilly Council and Camden Council;
- (b) have four community representatives residing in the PAL 1 area;
- (c) have one representative from each council;
- (d) two representatives appointed by the Applicant (including the environmental officer);
- (e) two (2) representatives from a recognised environmental group;
- (f) meet at least quarterly;
- (g) take minutes of the meeting; and
- (h) make comments and recommendations about the implementation of the development and environmental management plans, monitor compliance with conditions of this consent and other matters relevant to the operation of the development during the term of the consent.

Representatives from relevant government agencies or other individuals may be invited to attend meetings as required by the Chairperson.

Evidence sighted:

Refer to DA282-6-2003i.

Compliance status:

Compliant.

91. The Applicant shall :

- (a) provide the Committee with regular information on the environmental performance and management of the development;
- (b) ensure that the Committee has reasonable access to the necessary plans to carry out its functions;
- (c) consider the recommendations and comments of the Committee and provide a response to the Committee and Director-General;
- (d) provide access for site inspections by the Committee;
- (e) make the minutes available for public inspection at Camden and Wollondilly Councils within fourteen days of the Committee meeting, or as agreed by the Committee; and
- (f) forward a copy of the minutes of each Committee meeting, and any responses to the Committee's recommendations to the Director-General and the DMR within a month of the Committee meeting.

Evidence sighted:

Refer to DA282-6-2003i.

Compliance status:

Compliant.

92. If required by the Committee, the Applicant shall establish a trust fund or other funding arrangement that may be agreed between the Applicant and Committee, to be managed by the Chair of the Committee to facilitate the functioning of the Committee, and pay \$5000 per annum to the fund or other

arrangement, for the duration of operation in the PAL 1 area, or as otherwise directed by the Director-General.

The monies are to be used only if required for the engagement of consultants to interpret technical information and the like. The annual payment shall be indexed according to the Consumer Price Index (CPI) at the time of payment. The first payment shall be made by the date of the first Committee meeting. A record of the finances of the trust fund during each year shall be provided to the Director-General and Applicant by the Chair on each anniversary of the first payment. Any unspent monies shall be returned to the Applicant each year.

Evidence sighted:
The fund has not been requested and has not been set up.
Compliance status:
Not applicable to date.

SCHEDULE 4 MANDATORY CONDITIONS FOR ALL EPA LICENCES

ADMINISTRATIVE CONDITIONS Other activities

(To be used on licences with ancillary activities)

This licence applies to all other activities carried on at the premises, including:

- Gas wells and gathering system.

OPERATING CONDITIONS Activities must be carried out in a competent manner

Licensed activities must be carried out in a competent manner.

- This includes:

- (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

Maintenance of plant and equipment

- All plant and equipment installed at the premises or used in connection with the licensed activity:

- (a) must be maintained in a proper and efficient condition; and
- (b) must be operated in a proper and efficient manner.

MONITORING AND RECORDING CONDITIONS Recording of pollution complaints

The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

- The record must include details of the following:
 - (a) the date and time of the complaint;
 - (b) the method by which the complaint was made;
 - (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - (d) the nature of the complaint;
 - (e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - (f) if no action was taken by the licensee, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 years after the complaint was made.

The record must be produced to any authorised officer of the EPA who asks to see them.

Telephone complaints line

The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in

relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

This condition does not apply until 3 months after this condition takes effect.

REPORTING CONDITIONS

Annual Return documents

- What documents must an Annual Return contain? The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

- (a) a Statement of Compliance; and
- (b) a Monitoring and Complaints Summary.

A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the

licensee a copy of the form that must be completed and returned to the EPA.

Period covered by Annual Return

- An Annual Return must be prepared in respect of each reporting, except as provided below.

Note: The term “reporting period” is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

- Where this licence is transferred from the licensee to a new licensee,
 - (a) the transferring licensee must prepare an annual return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - (b) the new licensee must prepare an annual return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an annual return in respect of the period commencing on the first day of the reporting period and ending on
 - (a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - (b) in relation to the revocation of the licence – the date from which notice revoking the licence operates.

Deadline for Annual Return

- The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Notification where actual load can not be calculated (Licences with assessable pollutants)

Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date.

- The notification must specify:
 - (a) the assessable pollutants for which the actual load could not be calculated; and
 - (b) the relevant circumstances that were beyond the control of the licensee.

Licensee must retain copy of Annual Return

- The licensee must retain a copy of the annual return supplied to the EPA for a period of at least 4 years after the annual return was due to be supplied to the EPA.

Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary

- Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- (a) the licence holder; or
- (b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

A person who has been given written approval to certify a Statement of Compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review this licence.

Notification of environmental harm

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act

Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.

The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Written report

- Where an authorised officer of the EPA suspects on reasonable grounds that:

- (a) where this licence applies to premises, an event has occurred at the premises; or
- (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event. The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

- The request may require a report which includes any or all of the following information:
 - (a) the cause, time and duration of the event;
 - (b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; and
 - (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - (g) any other relevant matters.

The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

GENERAL CONDITIONS

Copy of licence kept at the premises or on the vehicle or mobile plant

A copy of this licence must be kept at the premises or on the vehicle or mobile plant to which the licence applies.

The licence must be produced to any authorised officer of the EPA who asks to see it.

The licence must be available for inspection by any employee or agent of the licensee working at the premises or operating the vehicle or mobile plant.

**DETERMINATION OF A DEVELOPMENT
APPLICATION
FOR STATE SIGNIFICANT DEVELOPMENT
UNDER SECTION 80 OF THE**

ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

I, the Minister for Planning, under Section 80 of the *Environmental Planning and Assessment Act 1979*, approve the Development Application referred to in Schedule 1, subject to the conditions in Schedule 3.

The reason for the imposition of the conditions is to:

- (i) Minimise any adverse environmental impacts associated with the development;
- (ii) Provide for the on-going environmental management of the development; and
- (iii) Provide for regular monitoring and reporting on the development.

Andrew Refshauge MP
Minister for Planning

Sydney,

2002 File :

S02/01615

SCHEDULE 1

Development Application:	DA No. 246-8-2002-i
Applicant:	Sydney Gas Operations Pty Limited
Consent Authority:	Minister for Planning.
Land:	Lot 2 DP 594242, Kay Park, 790 Remembrance Drive, Razorback
Proposed Development:	The connection of 3 existing wells (KP1, KP2, and KP3) to the Ray Beddoe Treatment Plant (in accordance with the attached plan), and the continued production and sale of methane gas from the 3 wells. The construction, drilling and operation of 2 Surface to in-seam wells (KP05 and KP06) from KP01.
State Significant Development:	The proposed development is State Significant development by virtue of a Declaration made by the Minister for

Planning on 19 December 2001 under
Section 76A of the *Environmental
Planning and Assessment Act 1979*.

SCHEDULE 2

DEFINITIONS

The Act	<i>Environmental Planning and Assessment Act 1979</i>
The Applicant	Sydney Gas Operations Pty Ltd
DA	Development Application
The Department	The Department of Planning
The Director-General	The Director-General of the Department of Planning, or her delegate
DECC	Department of Environment and Climate Change
DPI	Department of Primary Industries
DWE	Department of Water and Energy
Production Lease	Petroleum Production Lease under the <i>Petroleum (Onshore) Act 1991</i>
SIS	Surface to in-seam

SCHEDULE 3

CONDITIONS OF CONSENT

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:
No significant issues were identified during the audit.
Compliance status:
Compliant.

Terms of Approval

2. The Applicant shall carry out the development generally in accordance with the:
 - (a) DA submitted to the Department on 2 August 2002; and
 - (b) *Sydney Gas Operations Pty Ltd Kay Park CBM Project Prospecting Exploration Licence 2 Statement of Environmental Effects Exploration Drilling & Gas Gathering Operations*, dated 15/4/02 and prepared by Harvest Scientific Services;
 - (c) *Addendum to Report Camden Coal Bed Methane Project – Kay Park Pipeline Archaeological and Heritage Assessment*, dated May 2002 and prepared by New South Wales Archaeology;
 - (d) Conditions of the consent for DA No. 15-1-2002-i dated 23 July 2002; and
 - (e) Modification Application MOD 25-3-2007 and “*Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects*”, dated March 2007; and
 - (f) Conditions of this consent.

If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:
The drilling and connection of the additional well at KP05 was reported to have been undertaken in accordance with the above.
Compliance status:
Compliant.

Period of Approval

3. This approval is for a period of twenty one (21) years from the date of granting of the production lease.

Special Condition of Approval

- 3a. The Applicant shall not produce gas from any well until a Production Lease under the Petroleum (Onshore) Act 1991 has been obtained for the full length of the well.

Evidence sighted:

Noted.

Compliance status:

Compliant.

Redrilling and Refracking Management Plan

4. For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

Evidence sighted:

No redrilling or additional fracing has been undertaken under this consent.

Compliance status:

Compliant.

5. The Applicant shall obtain the approval of the Director-General for the redrilling and/or additional fracing of a well.

Evidence sighted:

No redrilling or additional fracing has been undertaken without approval.

Compliance status:

Compliant.

6. The Applicant shall prepare and submit to the Director-General a Redrilling and Refracking Management Plan (in accordance with Condition 10 of the consent for DA No. 15-1-2002-i dated 23 July 2002) for the redrilling and refracking of an existing well.

Evidence sighted:

No redrilling or additional fracing has been undertaken under this consent.

Compliance status:

Not applicable.

7. The Applicant shall give written notification of the proposed redrilling/refracking work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

Evidence sighted:

No redrilling or additional fracing has been undertaken under this consent.

Compliance status:

Not applicable.

Compliance

8. Throughout the life of the development, the Applicant shall secure, renew, maintain, and comply with all the relevant statutory approvals applying to the development.

Evidence sighted:

Statutory approvals are listed in the main text of this report.

Compliance status:

Compliant.

9. The Applicant shall take all reasonable steps to ensure that all of its employees, contractors and subcontractors are made aware of, and comply with, the conditions of this consent relevant to their respective activities.

Evidence sighted:

The relevant requirements of the CoC are communicated in inductions.

Compliance status:

Compliant.

Production Operations Plan

10. The Applicant shall prepare a Production Operations Plan (POP) for the approval of the DPI. The POP shall have regard to the conditions of this consent and the Environment Protection Licence under the Protection of the Environment Operations Act 1997. The POP will form the basis for the:
- (a) ongoing operations and environmental management; and
 - (b) ongoing monitoring of the development.

A copy of the POP shall be forwarded to the Department within fourteen days

of the DPI's acceptance.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

Environmental Management Plan

11. The Applicant shall amend the Environmental Management Plan required under Condition 15 of the consent for DA No. 15-1-2002-i dated 23 July 2002, to include the operation of KP1, KP2, KP3, KP05 and KP06 and the associated gas gathering system.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

Condition Report

12. The Applicant shall prepare a Condition Report on residences and structures that may be potentially affected by drilling/fracking work, including the redrilling and refracking of an existing well.

The Applicant shall undertake an inspection of the residence and/or structure prior to work commencing, and a follow up inspection within one month of the completion of the work. The Applicant shall take immediate action for repair of any damage to the residence or structure as a result of the work and to avoid any further damage. A copy of the Condition Report shall be submitted to the Director-General and the DPI after completion of the work.

Evidence sighted:

Pre-audit period

Incident Reporting

13. The Applicant shall notify the DECC, DPI and the Director-General of any incident with significant off-site impacts on people or the biosphere environment as soon as practicable after the occurrence of the incident. The Applicant shall provide written details of the incident to the Director-General, the DECC, DPI and Wollondilly Council within seven days of the date on which the incident

occurred.

Evidence sighted:

No incidents have reportedly occurred during the audit period.

Compliance status:

Not applicable.

14. The Applicant shall meet the requirements of the Director-General to address the cause or impact of any incident, as it relates to this consent, reported in accordance with Condition 13 of this consent, within such period as the Director-General may agree.

Evidence sighted:

No incidents have reportedly occurred during the audit period.

Compliance status:

Compliant.

Complaints Register

15. The Applicant shall record details of all complaints received in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:
- (a) the date and time, where relevant of the complaint;
 - (b) the means by which the complaint was made;
 - (c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
 - (d) the nature of the complaints;
 - (e) any action(s) taken by the Applicant in relation to the complaint, including any follow-up contact with the complainant; and
 - (f) if no action was taken by the Applicant in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the DECC or the Director-General upon request. The Applicant shall also make summaries of the register, without details of the complainants, available for public inspection.

Evidence sighted:

The complaints register is maintained in accordance with this CoC and reported in the AEPR.

The complaints register contains one complaint relating to this development approval. This was a landowner complaint regarding temporary lighting that was not directed away from adjoining properties and also about excessive noise at night during the drilling of the KP05 well. An inspection was arranged of the night lighting. The lights had been adjusted earlier during the day to assist visibility over the mud tanks and had not

been readjusted for the night shift. Upon receipt of the complaint the lights were adjusted to face away from the residence. The landowner was informed of the actions taken to address the complaint.

In response to the complaint regarding excessive night time noise, drilling at this site was completed on the night of the complaint and therefore noise monitoring was unable to be undertaken. A review of the previous nights noise monitoring was undertaken and noise was found to be minimal. Further monitoring is planned during drilling of future wells in the same location.

Compliance status:

Compliant.

Annual Environmental Performance Reporting

16. The Applicant shall include the operation of KP 1, KP2, KP3, KP05 and KP06 and the associated gas gathering system, and the conditions of this consent, in the Annual Environmental Performance Report required under Condition 34 of the consent for DA No. 15-1-2002-i dated 23 July 2002.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

Independent Environmental Audit

17. The Applicant shall include the operation of KP 1, KP2 KP3, KP05 and KP06 and the associated gas gathering system, and the conditions of this consent, in the Independent Environmental Audit required under Condition 35 of the consent for DA No. 15-1-2002-i dated 23 July 2002.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

Noise – Well Maintenance

18. The Applicant shall apply all feasible and reasonable noise mitigation measures to planned well maintenance activities in order to achieve the noise limits specified by Condition 38 of the consent for DA No. 15-1-2002-i dated 23 July 2002. Where the noise limits are not achievable the Applicant shall implement management

practices as necessary to minimise the potential noise impacts. These management practices are to include, but not be limited to:

- (a) appropriately informing affected residences and other relevant parties at least two weeks in advance of any planned well maintenance activities and updating the information as required;
- (b) documenting and implementing any specific work practices the Applicant will employ to limit noise;
- (c) documenting the feasible and reasonable noise mitigation measures that will be undertaken to reduce noise impacts from planned well maintenance activities; and
- (d) conducting noise monitoring where appropriate.

Evidence sighted:

Noise mitigation measures are included in the approved EHSMPs. There have been no noise complaints in relation to well maintenance.

Compliance status:

Compliant.

Noise – Drilling Impacts

19. The Applicant shall implement management practices as necessary to minimise the potential noise impacts from any redrilling and refracturing work. These management practices are to include, but not be limited to:
- (a) identifying all potentially affected noise sensitive receivers (including residences, schools, commercial premises and noise sensitive equipment) that may be affected by drilling work at these wells;
 - (b) predicting potential noise levels from the proposed well drilling methods where appropriate;
 - (c) identifying and implementing all reasonable and feasible noise mitigation measures to reduce any drilling noise impacts;
 - (d) documenting and implementing any specific work practices the Applicant will employ to limit noise; conducting noise monitoring where appropriate; and
 - (e) appropriately informing affected residences and other relevant parties at least two weeks in advance of any drilling work and updating the information as required.

Evidence sighted:

The auditor sighted a hand delivered notification to residents, dated 14 January 2008 in relation to the drilling of the KP05 well. KP05 was the only well drilled under this development consent in this audit period.

Compliance Status:

Compliant.

Construction Noise Criteria for SIS Wells

19B. Noise from the drilling and construction of KP05 and KP06 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday(7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
Nearest Receiver	53	48	41	35

Evidence sighted:

Noise monitoring undertaken at KP05 enabled AGL to determine whether they had exceeded the above noise criteria in light of a complaint the following night. Noise monitoring data was observed by URS to be compliant.

Compliance status:

Compliant.

Water Quality Impacts

20. Except as may be expressly provided for by a licence under the *Protection of the Environment Operations Act 1997*, the Applicant shall comply with section 120 of the *Protection of the Environment Operations Act 1997* in carrying out the development.

Evidence sighted:

No water quality issues were observed at the time of the site visit.

Compliance status:

Compliant.

Waste Water

21. Waste water from the construction, installation and operation of wells and associated infrastructure shall only be applied to the following areas:

- (a) dust suppression on any unsealed roads within the site;
- (b) irrigated onto pastures within the site;
- (c) evaporation dam; and
- (d) reinjection into gas wells.

The Applicant shall prepare a detailed feasibility study of reinjection of waste water into a gas well if this method of disposal of waste water is proposed. The approval of the Director-General shall be obtained for reinjection of waste water into a gas well.

Evidence sighted:

Re-injection of wastewater is not undertaken.

Compliance status:

Not applicable

22. Spray from waste water application shall not drift beyond the boundary of the waste water utilisation area to which it is applied.

Evidence sighted:

Wastewater application is not undertaken.

Compliance status:

Not applicable.

23. The Applicant shall ensure that areas proposed to be used for waste water application can effectively utilise the waste water. This includes the use for pasture or crop production, as well as ensuring the soil is able to absorb the nutrients, salts, hydraulic load and organic materials in the liquids. The Applicant may be required to undertake monitoring of land and receiving waters to determine the impact of waste water application.

Evidence sighted:

Wastewater application is not undertaken.

Compliance status:

Not applicable.

24. The Applicant shall ensure that all waste water that is used for dust suppression and/or irrigation has a salinity measure that does not exceed 800 $\mu\text{S}/\text{cm}$.

Evidence sighted:

Wastewater is not used for dust suppression.

Compliance status:

Not applicable.

Dust

25. The Applicant shall ensure that activities are carried out in a manner that will minimise the emission of dust from the site, including traffic generated dust from the site access roads.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

26. The Applicant shall take all practicable measures to ensure that all vehicles entering or leaving a site, carrying a load that may generate dust, are covered at all times, except during loading and unloading. Any such vehicles shall be covered or enclosed in a manner that will prevent emissions of dust from the vehicle at all times.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

27. The Applicant shall take all practicable measures to minimise the generation of wind-blown dust from soil stockpiles.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance Status:

Compliant

Gas Gathering System Pipeline

28. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:
- (a) excavated trenches shall not be left uncovered overnight, unless adequate fencing and warning lights are erected;
 - (b) signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
 - (c) trenches are to be restored and reseeded with local grass seeds on completion of the work;
 - (d) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
 - (e) the pipeline shall be constructed in accordance with the AS 3723-1989; and
 - (f) the Department shall be notified on the completion of any trenching works.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

Threatened Species

28A. The Applicant shall ensure that, during the drilling and construction of KP05 and KP06, impacts on threatened species are minimised by implementing actions including, but not limited, to the following:

(a) The recommendations outlined in Sections 6 and 7 of the Ecosearch Environmental Consultants Pty Ltd report titled “Flora and Fauna Assessment, AGL –Gas Well and Gathering Line Project modifications”; and

(b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

Evidence sighted:

According to a fauna and flora assessment undertaken by Ecosearch on Gas Well and Gas Gathering Line Project Modifications, no threatened species were impacted by the KP05 drilling and construction works.

Compliance status:

Compliant.

Heritage

28B. The Applicant shall ensure that, if any historical archaeological relics within the meaning of the *Heritage Act 1997* are disturbed, the Heritage Council of NSW shall be notified in accordance with section 146 of the *Heritage Act 1977*.

Evidence sighted:

No archaeological relics have reportedly been uncovered during excavations.

Compliance status:

Compliant.

Site Rehabilitation

29. The Applicant shall ensure the prompt and effective rehabilitation of all disturbed areas of the site following the completion of construction, operations and associated activities and/or the decommissioning of plant, to minimise the generation of wind erosion dust.

Evidence sighted:

Refer to DA 15-1-2002i.

Compliance status:

Compliant.

30. The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI and the Site Rehabilitation Management Plan.

Evidence sighted:

Rehabilitation of well sites (under different DAs) was observed during the site visit. Rehabilitation appeared to be carried out in accordance with DPI requirements and Section 6.6 of the relevant EHSMP.

Compliance status:

Compliant.

Community Consultative Committee

31. The Applicant shall include the operation of KP1, KP2, KP3, KP05 and KP06 and the associated gas gathering system, and the conditions of this consent, as a matter for the consideration of the Community Consultative Committee (established under Condition 90 of the consent for DA No. 15-1-2002-i dated 23 July 2002).

Evidence sighted:

Refer to DA 282-6-2003.

Compliance status:

Compliant.

Environment Protection Licence

32. The Applicant shall seek a variation to the Environment Protection Licence issued by the DECC for the Petroleum Production Lease No.1 area, to include the operation of the Kay Park wells (KP1, KP2, KP3, KP05 and KP06) and associated gas gathering system.

Evidence sighted:

All the above listed wells are included under EPL12003.

Compliance status:

Compliant.

ANNEXURE "A"

CONDITIONS OF DEVELOPMENT CONSENT

SCHEDULE 1

Development Application:	DA No. 282-6-2003-i
Applicant:	Sydney Gas Operations Pty Limited
Consent Authority:	Minister for Infrastructure and Planning
Land:	Refer to Appendix A
Proposed Development:	<p>The Camden Gas Project Stage 2 includes:</p> <ul style="list-style-type: none">• Construction and drilling of 20 wells located on the EMAI Site;• Operation and production of gas from the existing (drilled) 23 wells and 20 wells to be constructed (a total of 43 wells);• Construction and operation of the gas gathering system;• Construction and operation of the gas treatment plant, associated workshop and office facilities; and• Production of up to 14.5 petajoules per annum from the gas treatment plant.• Construction, drilling and operation of 1 directional well (GL16) from GL7, and 2 Surface to in-seam wells (GL14 and GL15) from GL10.• Construction, drilling and operation of 1 Surface to in-seam well (EM38) at EM20, and upgrading (twinning) of the gas gathering line between MP14-GL10, GL10-GL05, GL05-GL07 and RP03-RP08.• Construction, drilling and operation of 2 Surface to in-seam wells - EM39 (from EM02) and GL17 (from GL05), upgrading (twinning) of the gas gathering line from EM39 to the junction of the gas gathering line and road to the EM03 well, and connection of the new wells to the existing gas gathering system. <p>The location of the Gas Wells, the Gas Gathering System (coloured yellow and blue) and the Gas Treatment Plant as shown in Figure 1 "Sydney Gas Camden Gas Project Stage II Site Plan" (Appendix B).</p> <p>The location of the crossings of the Gas Gathering System and locations for Part 3A Permits as shown in Figure 2 "Camden Gas Project Stage 2 – RFI Act 3A Permit Areas" (Appendix B).</p> <p>The location of the proposed access roads and gas gathering lines as shown in Figure 3 "Sydney Gas Camden Gas Project Stage 2 – Location of Access Roads within the EMAI" (Appendix B).</p> <p>The location of the gas gathering system within the EMAI as shown in Figure 4 "Sydney Gas Camden Gas Project Stage 2 – Location of Gas Gathering System within the EMAI" (Appendix B)</p> <p>The location of the directional well as shown in Figure 5 "Proposed Deviated Wells from GL07" (Appendix B)</p> <p>The location of the directional well (GL15) as shown in Figure 6 "Well Location with Property Description", dated 4/10/06 (Appendix B).</p> <p>The location of the Surface to In-seam well (GL14) as shown in Figure 7 "Well Location with Property Description" (Appendix B)</p> <p>The locations of the Surface to In-seam well (EM38) and upgraded (twin) gas gathering lines are shown in Figure 8 "Proposed Modification.3 – Well EM38 and Gathering Line Upgrades" (Appendix B)</p>

The location of EM39 and GL17 as shown in Figure 9 "Overview GL17 and EM39 Modifications (Appendix B)

State Significant Development:

The proposed development is State Significant development by virtue of a Declaration made by the Minister for Infrastructure and Planning on 13 June 2003 under Section 76A of the *Environmental Planning and Assessment Act 1979*.

Integrated Development:

The proposal is classified as integrated development under Section 91 of the *Environmental Planning and Assessment Act 1979*, as it requires additional approvals under the:

- *Protection of the Environment Operations Act 1997*;
- *Rivers and Foreshore Improvement Act 1948*; and
- *Mine Subsidence Compensation Act 1961*

Designated Development:

The proposal is classified as designated development, under Section 77A of the *Environmental Planning & Assessment Act 1979*, because it is "petroleum works" and therefore meets the criteria for designated development in Schedule 3 of the *Environmental Planning & Assessment Regulation 2000*.

BCA Classification:

Class 1A:	Living Quarters
Class 8:	Demountable Office and Control Room/MCC
Class 8:	Steel Structure Workshop
Class 8:	Compressor Structure
Class 10:	Storage Containers and All Shelter Demountable Building
Class 10A:	Plant Skids – TEG and Meter Skid
Class 10A:	Toilet Blocks

Note:

- 1) *To find out when this consent becomes effective, see Section 83 of the Act;*
 - 2) *To find out when this consent is liable to lapse, see Section 95 of the Act; and*
 - 3) *To find out about appeal rights, see Section 97 of the Act.*
-

SCHEDULE 2

DEFINITIONS

AEPR	Annual Environmental Performance Report
The Applicant	Sydney Gas Operations Pty Ltd
BCA	Building Code of Australia
CCC	Community Consultative Committee
DA	Development Application
Day	Between 7.00am and 6.00pm Monday to Saturday and 8.00am to 6.00pm Sundays and Public Holidays
The Department	The Department of Planning
The Director-General	The Director-General of the Department of Planning, or delegate
DECC	Department of Environment and Climate Change
DPI	Department of Primary Industries
DWE	Department of Water and Energy
EIS	Environmental Impact Statement
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	Environment Protection Authority (now incorporated within the DEC)
EMAI	Elizabeth Macarthur Agricultural Institute
Evening	Between 6.00pm and 10.00pm
GTA	General Term of Approval
L _{AEQ15min}	Average noise level, when measured over a 15 minute period
Land	Land means the whole of a lot in a current plan registered at the Land Titles Office at the date of this consent.
Licence	Environment Protection Licence under the <i>Protection of the Environment Operations Act 1997</i>
Minister	Minister for Infrastructure and Planning
MSB	Mine Subsidence Board
Night	Between 10.00pm and 7.00am Monday to Saturday and 10.00pm and 8.00am Sundays and Public Holidays
PEL	Petroleum Exploration Licence
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Production Lease	Petroleum Production Lease under the <i>Petroleum (Onshore) Act 1991</i>
Protected Land	Land and material that is in or within 40 metres of the top of the bank or shore of "protected waters"
PRP	Pollution Reduction Program
RTA	Roads and Traffic Authority
SIS	Surface to in-seam
Site	Land to which the DA applies

SCHEDULE 3

ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:

No significant environmental issues were identified during the audit.

Compliance status:

Compliant.

Terms of Approval

2. ¹The Applicant shall carry out the development generally in accordance with the:
 - (a) DA submitted to the Department on 20 June 2003;
 - (b) *Camden Gas Project Stage II- Environmental Impact Statement for the Sydney Gas Company* (four volumes), dated 19 June 2003;
 - (c) All other documents listed in Appendix C;
 - (d) Drawings No. 32339 SK010 Issue 17 and SK014 Issue 1 ; and URS Plan LC-0100 Revision G dated 16 June 2004;
 - (e) Modification Application 42-3-2005 and the letter from Sydney Gas Operations Pty Ltd to the Department dated 14 March 2005 titled *Camden Gas Project Stage II – Modification Application*, and the accompanying attachments;
 - (f) The modification application submitted to the Department on 11 April 2006 and the accompanying document "*Camden Gas Project Joint Venture Proposed Multiple Gas Well Modifications*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, dated April 2006;
 - (g) The modification application submitted to the Department on 29 September 2006 and the accompanying document "*Camden Gas Project Joint Venture Statement of Environmental Effects Proposed SIS Well Project*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, and dated September 2006;
 - (h) The modification application submitted to the Department on 16 October 2006 and the accompanying document "*Camden Gas Project Joint Venture Statement of Environmental Effects Proposed SIS Well Project (GL15)*" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, and dated October 2006;
 - (i) Modification Application MOD 11-2-2007 and *Statement of Environmental Effects Section 96AA Modification of DA No 282-6-2003-I Relocation of an Existing Internal Road at Rosalind Park Gas Plant (RPGP) off Medhurst Road, Menangle*, dated February 2007;
 - (j) Modification Application MOD 26-3-2007 and "*Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects*", dated March 2007;
 - (k) Modification Application 282-6-2003 MOD 9, the Statement of Environmental Effects titled "*Camden Gas Project Joint Venture – EM39 and GL17 Modification Project*" dated February 2008, letter from AGL Gas Production (Camden) Pty Limited to the Department, dated 19 March 2008, and letter from Wilkinson Murray Pty Limited to AGL Gas Production (Camden) Pty Limited, dated 31 March 2008; and
 - (l) Conditions of this consent.

Evidence sighted:

The development including drilling and construction of additional wells has reportedly been undertaken in accordance with the above.
--

Compliance status:

Compliant.

3. If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:

Noted.

¹ Incorporates a DECC General Term of Approval

Compliance status:

Compliant.

4. The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
- Any reports, plans or correspondence that are submitted in accordance with this consent; and
 - The implementation of any actions or measures contained in these reports, plans or correspondence.

Evidence sighted:

The auditor viewed a copy of AGL's timetable for the implementation of outstanding Recommended Actions from 2006 / 2007 AEPR and 2006 Audit. Many of the items have been addressed.

Compliance status:

Compliant.

Limits of Approval

5. This approval shall lapse twenty one (21) years from the granting of the production lease.

Evidence sighted:

Noted.

Compliance status:

Compliant.

6. The Applicant shall not exceed the maximum production capacity of 14.5 petajoules per annum, from the gas treatment plant.

Evidence sighted:

The RPGP production report was sighted. AGL has not exceeded the maximum production capacity above.

Compliance status:

Compliant.

- 6A. The Applicant shall not produce gas from GL14 until a Production Lease under the *Petroleum (Onshore) Act 1991* has been obtained for the entirety of the well.

Evidence sighted:

The GL14 well is covered by PPL5, dated February 2007.

Compliance status:

Compliant.

Special Conditions of Approval

7. ²The Applicant must in the opinion of the DECC be a fit and proper person to hold a licence under the *Protection of the Environment Operations Act 1997*, having regard to the matters in s83 of that Act.

Evidence sighted:

AGL Energy Limited (AGL) is considered to be a 'fit and proper person' (ABN 95 052 167 405) and holds an Environment Protection Licence (No.12003) for the RPGP.

Compliance status:

Compliant.

8. ³Within one month of consent being issued and in any case before the commencement of any construction works causing the Gas Treatment Plant to become scheduled under the *Protection of the Environment Operations Act 1997*, the Applicant must submit, to the DECC's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a written report containing actual dates for submission of reports where specified in Conditions 126, 56, 62, 63, 43, 60, 85, 86, 71 and 61 of Schedule 4.

Evidence sighted:

² Incorporates a DECC General Term of Approval

³ Incorporates a DECC General Term of Approval

Pre-audit period.

9. If after five (5) years of the date of this consent any well that is the subject of this consent has not yet been drilled or completed, then the Applicant shall surrender the approval for that well.

Evidence sighted:

All wells in the original consent have been drilled.

Compliance status:

Not applicable

10. At the expiration of ten (10) years from the date of this consent, the Applicant shall submit to the Director-General a reserve report covering the petroleum production lease (PPL) area.

The report shall be prepared by an independent petroleum expert in accordance with relevant definitions approved by the Society of Petroleum Engineers and/or the World Petroleum Congress.

In the absence of a proven reserve, the Applicant shall make a further submission to the Director-General justifying why production should continue.

After reviewing this report, the Director-General may direct the Applicant to carry out certain actions (including the closure and rehabilitation of certain wells).

Evidence sighted:

Not applicable until 2014.

Compliance status:

Not applicable.

11. The Applicant shall run verticality logs for new gas wells located within coal exploration titles.

Evidence sighted:

Due to wells being vertical, geophysical logs with callipers are used as a more suitable tool instead of verticality logs. Logs from each well are kept in hard copy format in the well files in the office.

Compliance status:

Not Applicable.

Note: The Petroleum Production Lease that may be granted by the DPI will apply to the PEL 2 area, which is a much larger area than that which the development consent applies to.

This consent applies to the land and structures identified in Schedule 1, being the gas wells, gas treatment plant, associated workshop and office facilities and gas gathering system.

Further Approvals

12. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 49 wells for gas production) or gas gathering lines.

Evidence sighted:

AGL has applied for a modification to the consent for all additional wells drilled. RP01 and WG06, which were part of the original consent, were never drilled.

Compliance status:

Compliant

Structural Adequacy

13. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Evidence sighted:

Pre-audit period

Note: a) Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.
 b) Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development.
 c) The development is located in the South Campbelltown and Wilton Mine Subsidence Districts. Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the Mine Subsidence Board's approval before constructing or relocating any improvements on the site.

Public Infrastructure

14. The Applicant shall:
- (a) Repair, or pay the full costs associated with repairing any existing public infrastructure that is damaged by the development;
 - (b) Relocate or pay the full costs associated with relocating any existing public infrastructure that needs to be relocated as part of the development; and
 - (c) Meet the reasonable requirements of Sydney Water and Macarthur Water regarding the construction and operation of the proposed development adjacent to the water mains operated by Sydney Water and Macarthur Water respectively.

Evidence sighted:
 There has reportedly been no damage to, or relocation of, any public infrastructure. 'Dial-Before-U-Dig' searches have been undertaken to ensure public infrastructure is avoided.

Compliance status:
 Compliant.

Note: The Applicant may be required to apply to Sydney Water for a Section 73 Compliance Certificate under the *Sydney Water Act 1994* and to meet Sydney Water's reasonable requirements.

Location of Gas Wells and Gas Gathering Systems

15. The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well sites and gas gathering systems within their respective Local Government Area, in a format suitable to each of these Councils, within two months of the completion of the gas wells and gas gathering system.

Evidence sighted:
 This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under this DA are also unavailable, therefore AGL is considered non-compliant under this condition of consent.

Compliance status:
 Non-compliant.

Recommended Action:
 Ensure compliance with this CoC for any new wells under this DA. Maintain records so they can be verified during the next audit.

16. The Applicant shall provide Camden Council, Campbelltown City Council and Wollondilly Shire Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.

Evidence sighted:
 This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The wellhead configurations for new wells under this DA are also unavailable, therefore AGL is considered non-compliant under this condition of consent.

Compliance status:
 Non-compliant.

Recommended Action:
 Ensure compliance with this CoC for any new wells under this DA. Maintain records so they can be verified during the next audit.

17. The Applicant shall provide written notification to the Director-General that it has fulfilled the requirements of Conditions 15 and 16, within two weeks of the information being provided to the Councils.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The records of correspondence for new wells under this DA are also unavailable, therefore AGL is considered non-compliant under this condition of consent.

Compliance status:

Non-compliant.

Recommended Action:

Ensure compliance with this CoC for any new wells under this DA. Maintain records so they can be verified during the next audit.

Compliance

18. The Applicant shall prepare a Project Commitments Register (PCR) within six months of the date of this consent. The Project Commitments Register shall be submitted to the Director-General for approval. The PCR shall include all commitments and initiatives referred to in the documents listed in Condition 2(c) (Appendix C) and all other documents and supplementary information provided to the Department from the time of DA lodgement to the date of this consent. The PCR shall include, but not necessarily be limited to:
- (a) All commitments and initiatives (environmental, social, economic or project related) that the Applicant has agreed or suggested to implement for this development;
 - (b) Timeframe for implementation of the commitment or initiative;
 - (c) The responsibility for ensuring that the commitment or initiative is implemented in the manner and timeframe provided by the Applicant; and
 - (d) A reference to the document or correspondence that the commitment or initiative was stated by the Applicant.

Evidence sighted:

Pre-audit period.

19. The Applicant shall prior to the commencement of substantial construction certify in writing to the Director-General that all the relevant conditions applicable to construction have been complied with.

Evidence sighted:

Pre-audit period.

20. The Applicant shall submit for the approval of the Director-General two weeks prior to the commissioning of the development or within such other period that the Director-General may agree, a compliance report detailing compliance with all the relevant conditions that apply prior to the commissioning of the development.

Evidence sighted:

Pre-audit period.

SCHEDULE 4

SPECIFIC ENVIRONMENTAL CONDITIONS

VISUAL AMENITY

Visual Performance

1. The Applicant shall implement visual mitigation measures as depicted on the plan "Camden Gas Project Stage 2: Vegetation and Landscape Management Plan" Drawing No LC-0100 Revision G prepared by URS for Sydney Gas dated 16 June 2004 (the "Landscape Design").

Evidence sighted:

Pre-audit period

2. Prior to the commencement of construction of the workshop, office, plant and associated facilities at Rosalind Park, the Applicant shall submit for the approval of the Director-General, a colour scheme (paint colour specifications) for all proposed buildings, fences and associated structures.. Colours selected for the facilities (in particular the "Workshop" and "Offices") shall aim to minimise the visual impact of the facility on surrounding land uses and maximise the ability of the facilities to "blend into" the local landscape.

Evidence sighted:

Pre-audit period.

Note: The Applicant where practicable should aim to use darker paint colours on the facilities (such as a dark grey colour).

Wherever practical, the Applicant shall ensure that ground surfaces and stabilisation materials for the facilities at Rosalind Park utilise material in dark shades of colour (such as blue metal and dark coloured mulch).

3. The Applicant shall implement reasonable measures to screen gas wells GL 4, GL 5 and GL 10 and the interconnecting gas gathering line from the Banksia Garden picnic area within the Mount Annan Botanic Garden. The Applicant shall undertake such measures to the satisfaction of the Director-General.

Evidence sighted:

During the 2006 audit it was observed that two of the three wells (GL05 and GL10) were screened from the Botanic Gardens by existing vegetation. Some vegetation was observed to screen GL04, although it may be visible from the Gardens.

AGL had since consulted with the Botanic Gardens regarding the requirement for screening of these wells. No further screening is required around these wells.

Compliance status:

Not applicable.

Lighting Performance

4. The Applicant shall take all practicable measures to minimise any off-site lighting impacts from the development.

Evidence sighted:

No complaints regarding lighting issues have reportedly been received by AGL in relation to this development approval.

Compliance status:

Compliant.

5. The Applicant shall ensure that all external lighting associated with the development is mounted, screened and directed in such a manner so as to achieve the minimum level of illumination necessary, and in accordance with the *Australian Standard 4282 – 1997 Control of the Obtrusive Effects of Outdoor Lighting*.

Evidence sighted:

It is understood that external lighting was directed in accordance with the above Australian Standard.

Compliance status:

Compliant.

6. The Applicant shall ensure that measures to minimise lighting effects from the operation of the proposed development and the operation of the flare (including under emergency conditions) are implemented as recommended in the following reports (except where inconsistent with the Landscape Design or these conditions):

- (a) Report titled "Camden Gas Plant Stage 2 – Lighting Review with Respect to Obtrusive Effects from Methane Gas Flare" prepared by Bassett Consulting Engineers Pty Ltd for Sydney Gas dated 17 October 2003;
- (b) Report titled "Camden Gas Plant Stage 2 – Lighting Review with Respect to Obtrusive Effects" prepared by Bassett Consulting Engineers Pty Ltd for Sydney Gas dated 14 October 2003;
- (c) Plan titled "Lighting Review to Minimise Obtrusive Light to Mount Gilead Homestead – Drawing No. S5397-E001" prepared by Bassett dated October 2003;
- (d) Plan titled "Camden Gas Plant Phase II proposed Area and Perimeter Lighting Layout-Drawing No. 03-1212-84-301 Revision 2" prepared by Simon Engineering and dated 15 October 2003;
- (e) Report titled "Lighting Scope Camden Gas Phase II" prepared by Simon Engineering, Document Reference No 03 1212 LS-02 dated 13 October 2003; and
- (f) Report titled "Sydney Gas Proposal Stage 2 Coal Seam Methane Project Visual Assessment of Lighting and Flare" prepared by URS for Sydney Gas dated 6 November 2003.

Evidence sighted:

Pre-audit period.

7. Prior to the commencement of construction of the Gas Treatment Plant, the Applicant must submit to the Director-General or the certifying authority a revised "area and perimeter lighting layout" and "electrical services lighting review" to replace the two plans of this name in the document referred to in condition 6(b) above, taking into account the revisions to the development plans for the Gas Treatment Plant as approved in this consent. The lighting design under these revised plans shall be designed to minimise the effect of obtrusive light on the Mount Gilead Homestead from the Gas Treatment Plant.

Evidence sighted:

Pre-audit period.

8. The Applicant must ensure that wherever possible, any scheduled use of the flare occurs during daylight hours.

Evidence sighted:

The flare log was viewed. All scheduled and controlled use of the flare has occurred during daylight hours. There has been no flaring since September 2007 due to the availability of compressors 2 and 3.

Compliance status:

Compliant.

9. The design of the flare pit must be amended by installing an opaque barrier to a height of 7.5m above the flare tip as depicted on the Landscape Design. The Applicant may remove this barrier with the consent of the owner of Lot 1 DP 807555.

Evidence sighted:

Pre-audit period.

10. The Applicant shall report on the effectiveness of the lighting controls in the AEPR.

Evidence sighted:

The 2006 – 2007 AEPR and 2007 – 2008 draft AEPR report on the effectiveness of lighting controls.

Compliance status:

Compliant.

11. The Applicant shall record the frequency of the operation of the flare and shall make this information available for inspection by the Director-General on request. The records shall include but not be limited to the following:
- (a) date and time of each flare event;
 - (b) duration of each flare event;
 - (c) whether the flare operated during daylight or night-time hours;
 - (d) the cause for the operation of the flare;
 - (e) the number of compressor engines that have been commissioned and operating during the period; and
 - (f) comparison of the frequency, night-time frequency, duration and estimated light level of each type of flare event with the flare events predicted in Table 2 of the following report: URS (2003) "Sydney Gas Proposal Stage 2 Coal Seam Methane Project Visual Assessment of Lighting and Flare" prepared by URS for Sydney Gas dated 6 November 2003."

Evidence sighted:

A record of the frequency of the operation of the flare is maintained in accordance with this CoC and a copy provided in the AEPR. The requirement of (f) does not appear to be included in the flare log. However, it should be noted that no flaring has occurred since the operation of compressors 2 and 3. Therefore (f) is no longer considered to be applicable.

Compliance status:

Compliant.

Landscaping design

12. The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.

Evidence sighted:

Pre-audit period.

Vegetation and Landscape Management Plan

13. The Applicant shall prepare and implement a Vegetation and Landscape Management Plan for the Gas Treatment Plant site and the gas well sites. The plan shall include, but not necessarily be limited to:
- (a) reasonable measures to protect mature trees as part of the well drilling, gas gathering system and Treatment Plant Site construction activities;
 - (b) a landscape strategy detailing the design and proposed planting of trees and shrubs to be undertaken;
 - (c) ensuring that tree and shrub species used for landscaping of the site are indigenous to the locality;
 - (d) details of a program to ensure that all landscaped areas are maintained in a tidy, healthy state;
 - (e) measures intended to maximise the screening of infrastructure from views from the Mt Gilead property through planting and other measures;
 - (f) details of the visual appearance of all new buildings, structures and facilities (including paint colours and specifications). New buildings shall be constructed so as to present a neat and orderly appearance and to blend as far as practicable with the surrounding landscape;
 - (g) Details of any necessary irrigation system to ensure that adequate supplies of water are made available to all landscaping on site, the trees between the site and Menangle Creek and the trees located on the southern boundary of the Gas Treatment Plant site;
 - (h) Details of any necessary methods to be employed in the establishment of trees on cut batters in the event that the excavated surface is not conducive to the planting of vegetation of the type displayed in the Landscape Design;
 - (i) provision for assessing and regularly monitoring the health of the trees in the Menangle Creek riparian zone adjacent to the Gas Treatment Plant site. The objective of the monitoring is to determine the health of the trees and to recommend measures (if required) to improve the health of the trees;
 - (j) reasonable measures to ensure that mature trees within the riparian corridor along Menangle Creek are retained and protected;
 - (k) details of proposed screening works including supplementary planting along the border of the site with Menangle Creek;
 - (l) reasonable measures to minimise the impacts of the gas wells on the cultural heritage landscape of the EMAI;
 - (m) details of a monitoring program to assess the effectiveness of all visual impact mitigation measures, particularly the measures used to minimise the visual impacts on the Mount Gilead Homestead; and

- (n) reporting the results of the visual impact monitoring in the Annual Environmental Performance Report. The monitoring results will specifically identify any remedial measures required.

The Vegetation and Landscape Management Plan must be submitted and approved by the Director-General prior to commencement of construction on the Gas Treatment Plant site.

Evidence sighted:

Pre-audit period.

14. As part of an independent audit required under condition 18, the Vegetation and Landscape Management Plan must make provision for ensuring that landscaping of the Gas Treatment Plant site and surrounds is maintained in an adequate condition by providing details of a monitoring program. Monitoring must be carried out pursuant to the monitoring program every 6 months for the first two years from the commencement of planting and thereafter every 2 years by an independent and suitably qualified and experienced arborist whose appointment has been approved for the purposes of this condition by the Director-General. The monitoring program must include the following features:
- (a) identification of mature trees surrounding the site which afford screening of the Gas Treatment Plant from Mt Gilead Homestead;
 - (b) provision for assessing and regularly monitoring the health of landscaping on the site and the trees in the Menangle Creek riparian zone adjacent to the Gas Treatment Plant site. The objective of the monitoring is to determine the health of the trees and to recommend measures (if required) to improve the health of the trees;
 - (c) Description of the health of each tree identified under condition (a);
 - (d) Recommendation of reasonable measures to ensure that mature trees within the riparian corridor along Menangle Creek are retained and protected, including trees that lie within the transmission line easement to the East of the site;
 - (e) Recommendation of any watering or fertilising that needs to be implemented to maintain the landscaping and surrounding trees;
 - (f) Recommendation of how to manage the landscaping to promote the maximisation of growth to maturity.

The results and recommendations of the monitoring program must be submitted to the Director-General at the conclusion of each stage of monitoring.

Evidence sighted:

Monitoring of the implementation of the Vegetation and Landscape Management Plan is undertaken by URS. One monitoring round has been undertaken in this period. This was undertaken in December 2006. The next round of monitoring is due in December 2008.

The results and recommendations are reported at the conclusion of each stage of monitoring and will also be reported in the AEPR (currently in draft).

The status of actions to address recommendations are reported in the AEPR.

Compliance status:

Complaint.

15. (a) The existing trees shown on the Landscape Design adjacent to the southern boundary of the Gas Treatment Plant site, must be retained. They must not be lopped or trimmed except on the advice of an independent arborist whose appointment has been approved for the purposes of this condition by the Director-General that the proposed work is reasonably necessary for safety reasons. The trees must be maintained in a healthy condition.
- (b) If any of the trees described in this condition ceases to provide screening of the quarry from the Mount Gilead Homestead, as a result of the Applicant's activities (other than trimming or lopping undertaken on the advice of the arborist), the Applicant must provide alternative screening to the satisfaction of the Director-General.

Evidence sighted:

- a) Most of the existing trees have been retained. Approval was gained from the Department of Planning to remove two of the trees along the southern boundary in June 2008. The approval was given subject to the

<p>planting of replacement trees at suitable locations. The replacement trees have not been planted as yet although AGL does intend to plant them. AGL has not provided a date for the planting of the replacement trees.</p> <p>b) not applicable</p>
<p>Compliance status: Compliant.</p>

16. Prior to the commencement of construction on the Gas Treatment Plant site the Applicant must secure the right to implement on land outside the Gas Treatment Plant site for the life of the development any necessary mitigative or screening measures proposed for the Gas Treatment Plant as part of the Vegetation and Landscape Management Plan or as required by this Consent.

<p>Evidence sighted: Pre-audit period.</p>

17. For the purpose of avoiding possible detrimental impact on vegetation screening of the Gas Treatment Plant from the Mt Gilead Homestead due to any clear felling of trees in the area marked "A" on the Applicant's Plan Map Ref M240212 dated 16 June 2004 ("Applicant's Plan") by the holder of the electricity transmission line easement over Lot 1 DP 807555 ("Holder"), the Applicant shall carry out any reasonable and necessary trimming and lopping of those trees provided the Holder requests the Applicant in writing to carry out this trimming and lopping and undertakes in return to refrain from the clear felling of those trees within 5 years of the date of this Consent.

<p>Evidence sighted: No request to trim or lop trees has been made by AGL.</p>
<p>Compliance status: Not applicable.</p>

Independent Audit

18. The Applicant shall commission and pay the full cost of an Independent Audit of the performance of the mitigation measures implemented to prevent and minimise visual impacts of the proposal including landscaping, preservation of existing trees, and night-lighting effects. The audit must be conducted within 6 months of the commissioning of the proposed development and every 2 years thereafter, unless the Director-General directs otherwise. This audit must:
- (a) Be conducted by an independent landscape expert who is suitably qualified and experienced and whose appointment has been approved by the Director-General;
 - (b) Assess the performance of the visual mitigation measures with specific reference to the effectiveness of mitigation measures in screening the development and lighting from the development from the Mount Gilead Homestead;
 - (c) Review the adequacy of the Vegetation and Landscape Management Plan;
 - (d) Recommend actions or measures to improve the performance of the visual mitigation measures and the adequacy of the Vegetation and Landscape Management Plan (if required); and
 - (e) Be submitted to the Director-General; and
 - (f) Be implemented to the satisfaction of the Director-General.

<p>Evidence sighted: An independent audit as described above has not been undertaken since August 2005. However, it is noted that the required visual impact and landscape audits at RPGP have been delayed due to significant construction activity associated with the RPGP access road during the audit period. AGL advise that this audit will now be undertaken during late 2008 / early 2009.</p>
<p>Compliance status: Non-compliant.</p>
<p>Recommendation: Commission an Independent Audit of the performance of mitigation measures implemented to prevent and minimise visual impacts of the development.</p>

19. Within 2 months of commissioning this audit the Applicant shall submit a copy of the audit report to the Director-General and provide a detailed response to any of the recommendations in the audit report. A copy of the Independent Audit, and/or the results and recommendations of any monitoring carried out under condition 14, will be provided to the owner of Lot 1 DP 807555 by the Director-General upon request.

Evidence sighted:

No independent audit as described in CoC 18 above has been undertaken since August 2005. The audit report has therefore not been submitted to the DoP.

Compliance status:

Non-complaint.

Recommendation:

Submit a copy of the audit report required under condition 18 to the Director-General.

Landscape Planting Plan – Rosalind Park Access Road

19A. The Applicant shall prepare and implement a Landscape Planting Plan for the relocated Rosalind Park access road, to the satisfaction of the Director-General. This plan must be submitted to the Director-General for approval prior to the commencement of construction, and include:

- (a) details of the landscaping measures along the road and visual bund;
- (b) measures to manage and maintain the landscaping; and
- (c) describe the construction rehabilitation measures.

Evidence sighted:

A Landscape Planting Plan was prepared for the Rosalind Park access road and approved by the Director General on 21 May 2007.

Compliance status:

Compliant.

19B. Within 6 months of completion of the landscaping and every 2 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Audit of the performance of the mitigation measures. The audit shall:

- (a) be conducted by a suitably qualified, experienced and independent person(s) whose appointment has been approved by the Director-General;
- (b) assess the performance of the visual mitigation measures with specific reference to the effectiveness of mitigation measures in screening the road from the Mount Gilead Homestead;
- (c) review the adequacy of the Landscape Planting Plan;
- (d) recommend actions or measures to improve the performance of the visual mitigation measures and the adequacy of the Landscape Planting Plan (if required); and
- (e) be submitted and implemented to the satisfaction of to the Director-General.

Note: The Applicant may include this audit in the Independent Audit required under Schedule 4 Condition 18 of development consent Da-282-6-2003-I, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits.

Evidence sighted:

Landscaping of the access road commenced in September 2007 and was completed in November 2007. The independent audit is yet to be undertaken.

Compliance status:

Non-complaint.

Recommendation:

Commission an Independent Audit against the Landscape Planting for the Rosalind Park Access Road.

FLORA AND FAUNA**Raptor Breeding Zones at EMAI**

20. The Applicant shall ensure that the drilling of gas wells and the construction of the gas gathering system and any related activities do not occur within 100 metres of the Raptor Breeding zones.

Evidence sighted:

Pre-audit period.

21. The Applicant shall only drill and “fracc” wells EM 5, EM 7, EM 8, EM 9, EM 11 and EM12 during the months of February and/or March or such other period as agreed by the Director-General.

Evidence sighted:

Pre-audit period.

22. The Applicant shall ensure that gas gathering lines connecting well sites listed in Condition 21 shall be constructed outside the breeding seasons of raptor species.

Evidence sighted:

Pre-audit period.

Note: The above condition provides protection for breeding raptor species on the EMAI, in proximity to the stated wells, through ensuring activities that are likely to generate noise are conducted outside of the breeding season of raptor species.

Flora and Fauna Protection Measures

23. The Applicant shall implement best practice flora and fauna management.

Evidence sighted:

Most construction took place during the pre-audit period. 98% of well sites have been located in paddocks / on grazing land to minimise impacts to flora and fauna.

Compliance status:

Compliant.

24. The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the proposed development.

Evidence sighted:

Pre-audit period.

25. The Applicant shall ensure that trenches constructed during the construction of gas gathering lines are not left open overnight unless otherwise agreed by the Director-General.

Evidence sighted:

It is a requirement of the EHSMP that trenches built for installing gas gathering lines are not left open overnight. No trenches were left overnight during this audit period.

Compliance status:

Compliant.

26. The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.

Evidence sighted:

Approval from the DoP was gained to remove two trees from the southern boundary in June 2008. No further trees have been removed.

Compliance status:

Compliant.

27. The Applicant shall employ a suitably qualified ecologist with specific experience in identifying the Cumberland Plain Snail, during the construction period of the development. The ecologist shall monitor and examine areas for the presence of the threatened Cumberland Plain Snail, during the clearing for the proposed development.

Evidence sighted:

Pre-audit period.

28. The Applicant shall prepare a translocation strategy for the threatened Cumberland Plain Snail which will be submitted for the Director-General's approval prior to construction. The Translocation strategy shall be implemented should any individuals or populations of the Cumberland Plain Snail be identified.

Evidence sighted:

Pre-audit period.

Threatened Species

- 28A. The Applicant shall ensure that, during the drilling and construction of EM38 and upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited, to the following:
- (a) The recommendations outlined in Ecosearch Environmental Consultants Pty Ltd's reports titled: "*Flora and Fauna Assessment, AGL –Gas Well and Gathering Line Project Modifications*" (Sections 6 and 7); and "*Flora and Fauna Assessment, Executive Summary for Rosalind Park Gas Field*" (page 9); and
 - (b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

<p>Evidence sighted: The recommendations in the Ecosearch report were reportedly implemented. Given the scale of the works, there are no significant impacts of threatened species. Rehabilitation of sites appeared to be of a high standard.</p>
<p>Compliance status: Compliant.</p>

- 28B. The Applicant shall ensure that, during the drilling and construction of EM39 and GL17 and upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited to the following:
- (a) the recommendations outlined in the flora an fauna assessment carried out by Biosis Research Pty Ltd in Appendix A of the Statement of Environmental Effects titled "*Camden Gas Project Joint Venture – EM39 and GL17 Modification Project*"; and
 - (b) marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

<p>Evidence sighted: GL17 was not constructed or drilled in the audit period. EM39 is situated in an area cleared of native vegetation and dominated by exotic pasture grasses and herbaceous weeds. No threatened species, populations or ecological communities were recorded during the original survey and the site was previously disturbed by agricultural activities. EM39 was carried out according to the statement of commitment in the flora and fauna assessment.</p>
<p>Compliance status: Compliant.</p>

NOISE

Noise Impact Assessment Criteria

29. The Applicant shall ensure that noise from the normal operation of the premises, excluding flaring events, must not exceed the noise limits in the table below:

Receiver Location	Day	Evening	Night	Flaring (anytime)
	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{A1} (1minute)
R1 Medhurst Street Gilead	35	35	35	45
R7 Mt. Gilead Gilead	37	36	36	45

<p>Evidence sighted: A review of noise monitoring reports during the audit period indicates that the requirements of this CoC are generally met. At R1 noise from the RGP was generally inaudible due to masking from Hume Highway traffic noise.</p> <p>In an effort to maintain compliance with EPL noise limits at the RGP site, a noise wall and acoustic louvers were installed adjacent to cooling fans for compressor number 1 and changes were made to the plumbing of the TEG pump to reduce noise emissions.</p> <p>No noise complaints have been received by AGL in relation to the RGP.</p>
<p>Compliance status: Compliant.</p>

- 29A. Noise from the operation of EM39 and GL17 shall not exceed the noise limits in the table below:

Receiver Location	Noise Criteria	Day	Evening	Night
		dBA L _{Aeq}	dBA L _{Aeq}	dBA L _{Aeq}
All residential receivers except R22 and R26	Project-Specific	40	40	38
R22 and R26	Project-Specific	43	42	37

Evidence sighted:

Sighted noise monitoring results from drilling of EM39 in the evening. The results are compliant with the above criteria.

Compliance status:

Compliant.

30. For the purposes of condition 29, 29A and 31:
- Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public holidays;
 - Evening is defined as the period 6pm to 10pm;
 - Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays; and
 - The receiver locations R1 and R7 are as shown in Figure 5.1 of the Environmental Noise and Vibration Study by Environmental Resources Management Australia Pty Ltd dated June 2003 which accompanied the Environmental Impact Statement for the project.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

31. Noise from flaring events, must not exceed the noise limits in the table below:

Location	Duration of each Event	Expected Type Of Event (2)	Daytime	Evening	Night
			L _{Aeq,15min}	L _{Aeq,15min}	L _{Aeq,15min}
R1 Medhurst Street	> 2.5 hours	Spill Valve	35	35	35
	15 min – 60 min	Compressor Blowdown (ESD)	40	40	35
	6 min – 15 min	Compressor Blowdown (shutdown and unload)	42	42	37
R7 Mt. Gilead	> 2.5 hours	Spill Valve	37	36	36
	15 min – 60 min	Compressor Blowdown (ESD)	42	41	40 (1)
	6 min – 15 min	Compressor Blowdown (shutdown and unload)	44	43	37

1. Where ESD flare events exceed a frequency of occurrence of 1 per 21 days or duration higher than 15 minutes per event to a reduced flow rate of less than 0.5mmscf/d for each event, a lower limit of 36dB(A) Leq 15 minute applies at night.

3. Definition: A flaring event is taken to be any gas flow to the flare greater than that which is necessary to maintain the pilot flame.

Evidence sighted:

Noise data from flaring events is captured within the continuous unattended noise monitoring at R1 and R7. This indicates that noise for all flare events is inaudible at nearby properties, which is concurrent with previous studies. Consequently, the continuous noise monitors will soon be removed.

It should be noted that there was no flaring in the period October 2007 to June 2008 as the RPGP maintained an average monthly operating availability of 99.7%.

Compliance status:

Compliant.

32. Noise from the premises is to be measured at the most affected point on or within the residential boundary or at the most affected point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the $L_{Aeq(15\text{ minute})}$ and $L_{Aeq(\text{period})}$ noise limits in Conditions 29, 29A and 31.

Where it can be demonstrated that direct measurement of noise from the premises is impractical, the DECC may accept alternative means of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy.

The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.

Evidence sighted:

Continuous monitoring and quarterly attended monitoring is undertaken at the Mt. Gilead residence. The results of the quarterly attended noise monitoring are documented in the quarterly noise monitoring reports. Noise monitoring reports were observed dated July 2006, October 2006, February 2007, May 2007, July 2007, October 2007, December 2007 and March 2008.

Compliance status:

Compliant.

33. The noise emission limits identified in Conditions 29, 29A and 31 apply under meteorological conditions of:
- Wind speed up to 3m/s at 10 metres above ground level; or
 - Temperature inversion conditions of up to 3°C/100m and wind speed up to 2m/s at 10 metres above the ground.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

Noise – Construction and Well Maintenance

34. The Applicant shall prepare and implement a Construction and Well Maintenance Noise Management Protocol to be used for the duration of the project. The Protocol must include, but is not necessarily limited to:
- (a) noise compliance standards;
 - (b) community consultation;
 - (c) advance notice to affected members of the community for planned well maintenance activities;
 - (d) complaints handling monitoring/system;
 - (e) site contact person to follow up complaints;
 - (f) mitigation measures;
 - (g) the design/orientation of the proposed mitigation methods demonstrating best practice;
 - (h) construction times;
 - (i) contingency measures where noise complaints are received; and
 - (j) monitoring methods and program.

Evidence sighted:

SGL developed a Noise Management Program supported by the Noise Management Plan devised by ERM (September 2004). However, this was never approved by DECC and the plan was never implemented. The EHSMPs also address construction and well maintenance noise. However, they do not include all the elements described above.

AGL is developing a Noise Management Sub-Plan, which will include these elements and will be included in the new EMP. The new sub-plan satisfies the above criteria.

Compliance status:

Non-compliant.

Recommended Action:

Continue to develop and implement the new noise management sub plan.

- 34A. Noise from the drilling and construction of GL14 and GL15 shall not exceed the sound pressure level (noise) limits presented in the table below:

Receiver Location	Night Time Noise Limit dB(A) L_{Aeq}
-------------------	---

Glenlee House	35
Menangle Park	35

Evidence sighted: Evening noise monitoring during the drilling of GL14 indicates the noise to be 49.5 dB(A) L_{Aeq} which exceeds the above criteria although background noise (insects) was noted. However, the monitoring was recorded as being 550m from the nearest residence and not at the either of the properties listed above.
Compliance status: Administrative non-compliance
Recommended Action: Ensure that construction / drilling noise monitoring is undertaken at a location and time which is prescribed by the conditions of consent in order to confirm compliance with those conditions.

34B. Noise from the drilling and construction of EM38 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday (7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
EM38 – nearest residential receiver	54	39	39	35

Evidence sighted: Daytime drilling noise results for properties near EM38 indicate compliance with this condition.
Compliance status: Compliant.

34C. Noise from the drilling and construction of EM39 and GL17 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday (7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
EM39 – R3	40	40	40	38
GL17 – R3	40	40	40	38

Evidence sighted: Evening / night time drilling noise results for properties near EM39 indicate compliance with this condition.
Compliance status: Compliant

Noise – Drilling Impacts

35. The Applicant shall implement management practices as necessary to minimise the potential noise impacts from drilling work at gas wells located on EMAI. These management practices are to include, but are not limited to:

- (a) identifying all potentially affected noise sensitive receivers (including residences of EMAI staff) that may be affected by drilling work at these wells;
- (b) predicting potential noise levels from the proposed well drilling methods where appropriate;
- (c) identifying and implementing all reasonable and feasible noise mitigation measures to reduce any drilling noise impacts;
- (d) documenting and implementing any specific work practices the Applicant will employ to limit noise; conducting noise monitoring where appropriate; and
- (e) appropriately informing affected residences and other relevant parties at least two weeks in advance of any drilling work at the gas wells and updating the information as required.

Evidence sighted: Noise impacts from drilling are reportedly managed through site selection, rather than implementing noise minimisation practices. No noise complaints have reportedly been received from EMAI. Noise monitoring results from the nearest properties to various wells indicate that noise management practices are effective.
--

Compliance status: Compliant.

Hours of Operation

36. Planned maintenance activities at any of the wells must only be conducted between:

- 7am and 6pm on weekdays; and
- 8am and 1pm on Saturdays (excluding Public Holidays).

This condition does not apply to the delivery of material outside the hours of operation permitted by the DECC's licence, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification is to be provided to the DECC and affected residents as soon as possible, or within a reasonable period in the case of emergency.

Evidence sighted:

No works have reportedly been undertaken outside of these times.
--

Compliance status:

Compliant.

Construction Hours

36A. Except for the drilling (including well casing and grouting) of SIS wells, all construction work shall be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays and at no time on Sundays and Public Holidays, unless inaudible at any residential receiver.

Note: Inaudible means that the construction activity cannot be heard by the human ear at the nearest affected residential receiver.

Evidence sighted:

No construction work has reportedly been undertaken outside of these times, except for the drilling of SIS wells.

Compliance status:

Compliant.

Flare – Measures to Reduce Noise

37. The Applicant must implement the following noise mitigation options to prevent noise impacts from flare operation:

- Noise mitigation options 1 through to 9 (exclusive of option 8) must be implemented to prevent undue noise impacts at Receiver Location R7 (Mount Gilead residence) as referred to in Table B.1 titled "Flare Mitigation Options – Mt. Gilead (R7)" in the Letter Report titled 'Stage 2 Coal Bed Methane Project – Response to the EPA's Request for Flare Noise Details' from Environmental Resources Management Australia to Sydney Gas Ltd dated 22 October 2003.
- Measures identified in the report "Amendment to Statement of Evidence – Compressor Blow Down Systems" by Gary Scott dated 11 June 2004.

Evidence sighted:

Pre-audit period.

Operational Noise Management Plan

38. The Applicant shall prepare and implement a Noise Management Plan for the whole site. The Plan shall be submitted to the Director-General for approval within six months of the date of this consent. The Plan shall include, but not necessarily be limited to:

- (a) identification of the potential sources of noise during drilling and operation;
- (b) the noise criteria for these activities;
- (c) details of what actions and measures would be implemented to ensure that these operations would comply with the relevant noise criteria;
- (d) describe how the effectiveness of these actions and measures would be monitored during the life of the development, clearly indicating who would conduct the monitoring, how often this monitoring would be conducted, how the results of this monitoring would be recorded and reported to the Director-General, and if any non-compliance is detected; and
- (e) describe what procedures would be followed to ensure compliance.

Evidence sighted:

A Noise Management Plan was devised by ERM (September 2004). However, this was never approved by DECC and the plan was never implemented. The EHSMPs also address operational noise. However, they do not include all the elements described above.

AGL is developing a Noise Management Sub-Plan, which will include these elements and will be included in the new EMP. The new sub-plan satisfies the above criteria.

Compliance status:

Non-compliant.

Recommended Action:

Continue to develop and implement the new noise management sub plan.

Operating Conditions

39. The Applicant shall undertake the development in a way that minimises the noise generated by the development.

Evidence sighted:

As noted under CoC 29 above, the development is compliant with its EPL limits.

In an effort to maintain compliance with EPL noise limits at the RPGP site, a noise wall and acoustic louvers were installed adjacent to cooling fans for compressor number 1 and changes were made to the plumbing of the TEG pump to reduce noise emissions.

Compliance status:

Compliant.

Monitoring

40. The Applicant must submit a noise compliance report to the DECC and the Department within one month of commissioning of the Gas Treatment Plant and on an annual basis with the Annual Return required by the DECC's licence to assess the project's compliance with the noise limits in Conditions 29 and 31. The noise monitoring must be conducted in accordance with Condition 42.

Evidence sighted:

AGL does not provide an annual report of noise compliance within the Annual Return, but instead provide quarterly annual monitoring reports after each attended monitoring event. The DECC is reported to be satisfied with this arrangement.

Compliance status:

Administrative non-compliance

Recommendation:

Consult with the DoP regarding changing this condition to a requirement for quarterly attended monitoring.

41. Following the first 12 months of continuous noise monitoring, during the life of the Development or as otherwise agreed by the Director-General, the Applicant shall undertake quarterly attended monitoring at the Mt Gilead Homestead to the satisfaction of the Director-General, in accordance with the NSW Industrial Noise Policy and AS 1055: "Acoustics – Description and Measurement of Environmental Noise".

Evidence sighted:

Quarterly attended monitoring is undertaken by Wilkinson Murray. Noise monitoring reports were observed dated July 2006, October 2006, February 2007, May 2007, July 2007, October 2007, December 2007 and March 2008.

Compliance status:

Compliant.

42. Within six months of the date of this consent, the Applicant shall submit a detailed Noise Monitoring Program for the development to the Director-General for approval prior to commissioning. The Noise Monitoring Program must be prepared in consultation with the DECC and must include: a detailed noise monitoring protocol for evaluating compliance with the limits in conditions 29 and 31. The protocol must include consideration of monitoring under meteorological conditions as required by condition 33 and must provide for installation and use of a continuous noise monitoring system for the first 12 months of operation capable of identifying the source of dominant noise at R7 Mt Gilead, subject to the agreement of the owners and occupiers of this residence. In addition, meteorological conditions must be obtained for the time of noise monitoring. This is to include wind speed and direction as well as data suitable for quantifying the presence or otherwise of temperature inversions. The Applicant must comply with the Noise Monitoring Program at all times during operation of the development.

Evidence sighted:

The Noise Monitoring Program was developed in the last audit period, but had not been approved by the DECC. A

meeting to finalise the program took place in August 2007. The monitoring program was again discussed in a June 2008 meeting. DECC is reportedly satisfied with the monitoring program.

Compliance status:

Indeterminate.

Recommendation:

Finalise the Noise Monitoring Program with DECC.

Noise Monitoring Report - Flare

43. ⁴The Applicant must submit to the DECC's Manager Sydney Industry PO Box 668 Parramatta NSW 2124 within seven months of commissioning of the Gas Treatment Plant, a report on noise from operation of the flare in the first 6 months of operation of the plant. The report must assess the compliance of noise levels during the range of flaring incidents experienced since commissioning, with the noise limits provided in Conditions 29 and 31. The noise monitoring must be undertaken in accordance with the Noise Monitoring Program in condition 42. Where during the first six month period all flare types identified in Condition 31 have not occurred, noise measurements shall be carried out of a simulation of the remaining events by applying the appropriate flow rates in order to assess compliance.

The report must contain the following information:

- A listing of each incident when the flare operated including the duration, gas discharge rate and cause of the incident;
- The temperature and volume data for each flare event, as required by Condition 59;
- The results of noise measurements for flare operation for each flare type event, as required by Condition 31,
- The results of noise measurements for flare operation for each flare event for receivers at location R7; and
- An assessment of compliance with noise limits provided in Condition 31. The noise monitoring must be undertaken in accordance with Condition 42.
- Where noise levels do not comply with Condition 31, noise mitigation measures to ensure compliance.

Modification to the control system to reduce gas flow at the flare is considered a practical noise mitigation measure.

Evidence sighted:

Pre-audit period.

Redrilling and Refracting Management Plan

Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

44. The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracing of a gas well.

Evidence sighted:

There has been no refracting or redrilling of any wells under this consent within the audit period.

Compliance status:

Not applicable.

45. The Applicant shall prepare a Redrilling and Refracting Management Plan in consultation with the DPI for the redrilling and/or refracting of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. The Plan shall include, but not necessarily be limited to:

- (a) a description of all the activities to be undertaken on the well site during the redrilling and/or refracting work;
- (b) details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;

⁴ Incorporates a DECC General Term of Approval

- (c) reference to the relevant parts of the Environmental Management Plan required under conditions 1 and 2 (Schedule 5) of this consent;
- (d) compliance with all the relevant environmental performance requirements of this consent; and
- (e) arrangements for complaints handling procedures during the redrilling/refracting work.

The Applicant shall give written notification of the proposed redrilling/refracting work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

<p>Evidence sighted: Redrilling and Refracting management plans are developed for individual well sites. There has been no refracting or redrilling of any wells under this consent within the audit period.</p>
<p>Compliance status: Not applicable.</p>

VIBRATION

Condition Report

46. The Applicant shall prepare a Condition Report for all residences or structures (including structures on EMAI) within 25 metres of a wellhead.

The Applicant shall undertake an inspection of the residence and/or structure prior to work commencing, and a follow up inspection within one month of the completion of the work. The Applicant shall take immediate action for repair of any damage to the residence or structure as a result of the work and to avoid any further damage. A copy of the Condition Report shall be submitted to the Director-General and the DPI after completion of the work.

<p>Evidence sighted: There are no wells within 25m of a residence or structure.</p>
<p>Compliance status: Compliant.</p>

AIR QUALITY

Air Emission Criteria

47. The Applicant shall ensure that air pollutant emissions from the development do not exceed the following criteria at any privately owned residence.

Pollutant	Averaging Period	Criterion
Nitrogen Dioxide	1 Hour	246 µg/m ³
Nitrogen Dioxide	Annual	62 µg/m ³
Sulphur Dioxide	1 Hour	570 µg/m ³
Sulphur Dioxide	Annual	60 µg/m ³
Sulphuric acid mist	3 minute	33 µg/m ³
Methyl mercaptan	3 minute	0.84 µg/m ³

<p>Evidence sighted: Stephenson Environmental Management Australia undertook emission testing to determine whether the plant is complying with the above air pollutant criteria. Pollutant concentrations were measured at the emission points and compared to the input data used in the modelling for the air impact assessment. The findings of the report were that the emission rates complied with the EIS report and DA limit for all the specified pollutants.</p>
<p>Compliance status: Compliant.</p>

48. ⁵For each discharge point⁶ specified in the table below, the Applicant shall ensure that the concentration of a pollutant discharged at that point does not exceed the concentration limit specified for that pollutant in the table, and where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

POINT 1, 2, 3

⁵ Incorporates a DECC General Term of Approval

⁶ The Location of each Point is defined in Condition 54

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m ³	461	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m ³	7	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m ³	3.1	Dry, 273 K, 101.3 kPa	As per test method

POINT 4

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m ³	110	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m ³	35	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m ³	1.0	Dry, 273 K, 101.3 kPa	As per test method

POINT 5

Pollutant	Units of measure	100 percentile limit	Reference Conditions	Averaging Period
Oxides of Nitrogen	mg/m ³	13	Dry, 273K, 101.3kPa, 7% O ₂	As per test method
Sulfur Dioxide	mg/m ³	1042	Dry, 273 K, 101.3 kPa	As per test method
Sulphuric acid mist and/or sulphur trioxide	mg/m ³	35	Dry, 273 K, 101.3 kPa	As per test method

Note 1: ⁷Concentration limits at points 1, 2, 3, 4 and 5 in the above Condition may be subject to review after the submission of the Air Emissions Reports in compliance with Conditions 62 and 63.

Note 2: Should the proponent seek to revise the concentration limits as specified in condition 48 for oxides of nitrogen, the proponent must demonstrate that:

- the revised emission limit is representative of the proper and efficient maintenance and operation of the equipment;
- the equipment is designed to minimise emissions as far as is practicable and consistent with best practice considering the type of equipment and application;
- the revised emission limit is supported by Manufacturers Design Specification; and
- the revised emission limit does not cause adverse impacts on local air quality. This assessment must be undertaken in accordance with the document: Approved Methods and Guidance for the Modelling and Assessment of *Air Pollutants in NSW*.

Evidence sighted:

The following exceedences in concentration limits were recorded in the audit period.

- SO₂: Point 1, September 2006.
- SO₃ and Sulphuric acid mist: Point 4, September 2006; Point 4, March 2007, Points 2 and 4, December 2007, Points 3 and 4 February 2008 and Point 2 April 2008.

In the previous audit period detection limits for sulphuric acid mist and sulphur trioxide were on a number of occasions set outside the concentration limits specified in the EPL. This is still an issue, although there has been no action by DECC during this audit period. AGL states that an external laboratory determines the detection limit based on the sample quality and it is outside of AGL's control.

Monitoring results showed continuous compliance with NO_x limits.

Compliance status:

Non-compliant.

Recommended Action:

The issue of exceedences of concentration limits should be resolved in consultation with the DECC. Communicate with the laboratory to ensure detection limits for sulphur trioxide and sulphuric acid mist are within

⁷ Incorporates a DECC General Term of Approval

concentration limits wherever possible.

49. ⁸To avoid any doubt, the above Condition does not authorise the discharge or emission of any other pollutants.

Evidence sighted:

Noted.

Compliance status:

Not Applicable.

Combustion Parameters

50. ⁹For each monitoring/discharge point or utilisation area specified in the table below (by point number¹⁰), the Applicant shall ensure that the parameter is equal to or greater than the lower limits specified for that parameter in the table.

POINT 7

Parameter	Units of measure	Lower limit	Averaging period
Residence time	S	*TBD	Instantaneous
Temperature	°C	*TBD	Instantaneous

Note:

*TBD = To be determined

Note: ¹¹The limits for residence time and temperature for the main flare will be determined after the Applicant has submitted the report specified in Condition 126 based upon flare design of 98% destruction efficiency for VOCs plus methane and a NOx emission rate as determined in the report specified in Condition 126.

Evidence sighted:

During the previous audit period, AGL was in consultation with DECC to have monitoring requirements for Point 7 deleted from the licence as it was believed to be impractical and of limited value to sample the flare due to it operating predominantly in pilot mode. DECC removed the requirement to undertake emissions monitoring (temperature and residence time) at Point 7 from the Licence in September 2007.

AGL is currently in discussions with the DoP to have this consent condition removed from the consent.

Compliance status:

Not applicable.

Operating Conditions

51. ¹²The Applicant shall undertake the development and maintain the condition of the premises in a way that minimises or prevents the emission of dust generated by the development.

Evidence sighted:

The following measures are undertaken to minimise the emission of dust from the development when necessary:

- Use of a water cart on the unsealed access roads as required;
- Restriction on the height of topsoil stockpiles to two metres;
- Restrictions on speed limits. These are communicated in the site induction materials;
- Access is restricted to the access roads, gathering line easements and well head areas; and
- Erosion and sediment controls are installed as per the SWMPs for each well site.

No complaints of dust emissions have been received by AGL with regards to activities at the Development.

Compliance status:

Compliant.

⁸ Incorporates a DECC General Term of Approval

⁹ Incorporates a DECC General Term of Approval

¹⁰ The Location of each Point is defined in Condition 54

¹¹ Incorporates a DECC General Term of Approval

¹² Incorporates a DECC General Term of Approval

52. The Applicant shall take all practicable measures to ensure that all vehicles entering or leaving a site, carrying a load that may generate dust, are covered at all times, except during loading and unloading. Any such vehicles shall be covered or enclosed in a manner that will minimise emissions of dust from the vehicle at all times.

Evidence sighted:

No significant transport of loads that may generate dust leave or enter the site. Some road base (shale) is delivered but this is reportedly covered.

Compliance status:

Compliant.

53. The Applicant shall take all practicable measures to minimise the generation of wind blown dust from soil stockpiles.

Evidence sighted:

Soil stockpiles are kept below a maximum height of two metres to reduce wind blown dust. The EHSMP for drilling requires that construction activities shall be monitored to identify excessive dust generation.

Dust from soil stockpiles has not been an issue at the site and no complaints have been received.

Compliance status:

Compliant.

Monitoring Locations

54. ¹³For the purposes of this consent, the points referred to in the table below are identified for the purposes of monitoring and/or setting of limits for the emission of pollutants to air from that point:

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Description of Location
1	Air emissions monitoring	Discharge to air	Compressor Engine 1 marked 'Engine Exhaust Stack 1' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
2	Air emissions monitoring	Discharge to air	Compressor Engine 2 marked "Engine Exhaust Stack 2" as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC
3	Air emissions monitoring	Discharge to air	Compressor Engine 3 marked "Engine Exhaust Stack 3" as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC..
4	Air emissions monitoring	Discharge to Air	TEG Fire Tube marked 'Reboiler Flue' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
5	Air emissions monitoring	Discharge to Air	Reboiler Still Column marked 'Reflux Column Vent' as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
6	Air emissions monitoring	Discharge to Air	Carbon scrubber vent discharge stack as shown on Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
7	Air emissions monitoring	Discharge to Air	Main Flare marked 'Flare' as shown on 'Camden Gas Project Site Plan Location of

¹³ Incorporates a DECC General Term of Approval

			Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
--	--	--	---

Evidence sighted: Noted.
Compliance status: Not applicable.

Testing Method – Concentration Limits

55. ¹⁴The Applicant shall ensure that monitoring for the concentration of a pollutant emitted to the air required to be conducted by the DECC's General Terms of Approval, or a licence under the *Protection of the Environment Operations Act 1997*, in relation to the development or in order to comply with a relevant local calculation protocol is done in accordance with:
- (a) any methodology which is required by or under the POEO Act 1997 to be used for the testing of the concentration of the pollutant; or
 - (b) if no such requirement is imposed by or under the POEO Act 1997, any methodology which the general terms of approval or a condition of the licence or the protocol (as the case may be) requires to be used for that testing; or
 - (c) if no such requirement is imposed by or under the POEO Act 1997 or by the general terms of approval or a condition of the licence or the protocol (as the case may be), any methodology approved in writing by the DECC for the purposes of that testing prior to the testing taking place.

Evidence sighted: Noted.
Compliance status: Not applicable.

Note: The *Clean Air (Plant and Equipment) Regulation 1997* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "*Approved Methods for the Sampling and Analysis of Air Pollutants in NSW*".

Manufacturers Design Specifications

56. ¹⁵At least 1 month prior to the commissioning of the Gas Treatment Plant, the Applicant shall submit to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, a report containing Manufacturers Design Specifications for air emissions from each of the following:
- compressor engine;
 - TEG Fire tube; and
 - Reboiler still column.

The report must compare the Design Specifications with the limits specified in Condition 48 and 50 to demonstrate that compliance can be achieved.

Evidence sighted: Pre-audit period.

Note: ¹⁶The objective of this condition is to verify that the equipment installed is designed to comply with the air emissions limits specified in Condition 48.

Monitoring

57. Within 6 months of the date of this consent, the Applicant shall submit a detailed Air Quality Monitoring Program for the development to the Director-General, which has been prepared in consultation with the DECC and includes a detailed air quality monitoring protocol for evaluating compliance of the development with the Air Quality Pollutants in Condition 47. The Applicant shall prepare the Air Quality Monitoring Program in

¹⁴ Incorporates a DECC General Term of Approval
¹⁵ Incorporates a DECC General Term of Approval
¹⁶ Incorporates a DECC General Term of Approval

accordance with the NSW DECC Guideline “Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales” 20 July 2001 or its latest version.

Evidence sighted:

Pre-audit period.

58. ¹⁷For each monitoring/ discharge point or utilisation area specified in the tables below (by a point number¹⁸), the Applicant must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The Applicant must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns.

POINTS 1, 2, 3

Pollutant	Units of Measure	Frequency	Sampling Method
Oxides of Nitrogen	mg/m ³	Continuous	CEM-2
Temperature	oC	Continuous	TM-2
Moisture	%	Continuous	TM-22
Volumetric flow rate	m ³ /s	Continuous	CEM-6
Oxygen	%	Continuous	CEM-3

Note: ¹⁹The requirement for continuous monitoring at Point 1, 2 and 3 in Condition 57 will be reviewed after the submission of the Air Emissions Reports in compliance with Conditions 62 and 63.

POINTS 1, 2, 3, 4, 5

Pollutant	Units of measure	Frequency	Sampling Method
Velocity	m/s	Quarterly	TM-2
Volumetric flow rate	m ³ /s	Quarterly	TM-2
Temperature	°C	Quarterly	TM-2
Moisture	%	Quarterly	TM-22
Dry gas density	Kg/m ³	Quarterly	TM-23
Molecular weight of stack gases	g/g.mol	Quarterly	TM-23
Oxygen	%	Quarterly	TM-25
Carbon dioxide	%	Quarterly	TM-24
Oxides of Nitrogen	mg/m ³	Quarterly	TM-11
Sulfuric Acid Mist/Sulfur Trioxide	mg/m ³	Quarterly	TM-3
Sulfur Dioxide	mg/m ³	Quarterly	TM-4
Selection of sampling positions	-	-	TM-1

Note: ²⁰The requirement for monitoring of emissions at Points 2 and 3 only applies after compressor engines 2 and 3 respectively, commence operations.

POINT 6

¹⁷ Incorporates a DECC General Term of Approval

¹⁸ The Location of each Point is defined in Condition 54

¹⁹ Incorporates a DECC General Term of Approval

²⁰ Incorporates a DECC General Term of Approval

Pollutant	Units of measure	Frequency	Sampling Method
Velocity	m/s	Quarterly	TM-2
Volumetric flow rate	m ³ /s	Quarterly	TM-2
Temperature	°C	Quarterly	TM-2
Moisture	%	Quarterly	TM-22
Dry gas density	Kg/m ³	Quarterly	TM-23
Molecular weight of stack gases	g/g.mol	Quarterly	TM-23
Oxygen	%	Quarterly	TM-25
Carbon dioxide	%	Quarterly	TM-24
Odour	OU	Quarterly	OM-7
Selection of sampling positions	-	-	TM-1

Note: ²¹The requirement for quarterly monitoring at Point 6 may be removed based on odour emission performance after 12 months from commissioning of the gas treatment plant.

Evidence sighted:

The following monitoring reports by Stephenson's Environmental Australia were reviewed:

Quarterly Stack Emission Survey, September 2006;
 Quarterly and Assessable Pollutants Stack Emission Survey, December 2006;
 Quarterly Stack Emission Survey, March 2007;
 Quarterly Stack Emission Survey, June 2007;
 Quarterly Stack Emission Survey, August 2007;
 Quarterly Stack Emission Survey, December 2007;
 Quarterly Stack Emission Survey, February 2008; and
 Quarterly Stack Emission Survey, April 2008.

AGLs monitoring regime was found to meet to the requirements of this condition.

Compliance status:

Compliant

Monitoring of Combustion Parameters

59. ²²For each monitoring/discharge point or utilisation area specified below (by point number²³), the Applicant must monitor (by sampling and obtaining results by analysis) each parameter specified in Column 1. The Applicant must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

POINT 7

Parameter	Units of measure	Frequency	Sampling Method
Temperature	°C	Continuous	TM-2
Volume	m ³ /d	Daily during discharge	By Calculation (duration of flaring incident multiplied by the capacity of the unit causing the flaring event)

Evidence sighted:

This requirement has been deleted from the EPL due to health and safety concerns and there is now no requirement for monitoring of Point 7 within the Licence.

Compliance status:

Administrative non-compliance.

Recommendation:

Seek deletion of this condition from the consent from the NSW DoP.

²¹ Incorporates a DECC General Term of Approval

²² Incorporates a DECC General Term of Approval

²³ The Location of each Point is defined in Condition 54

Installation of Air Monitoring Points Report

60. ²⁴The Applicant must submit to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, one month prior to the completion of construction of the Gas Treatment Plant, a written report containing plans showing the locations of air monitoring points for discharges from:
- (a) the compressor engines;
 - (b) TEG Fire Tube;
 - (c) Reboiler Still Column; and
 - (d) Carbon scrubber vent stack.

The report must contain the opinion of a qualified air emissions monitoring consultant advising whether the monitoring points comply with TM-1.

Evidence sighted:

Pre-audit period.

Monitoring Program for Air Based Assessable Pollutants

61. ²⁵The Applicant must submit to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, one month prior to the completion of construction of the Gas Treatment Plant, a written report containing a program for monitoring of assessable pollutants from the start gas vents.

Evidence sighted:

Pre-audit period.

Requirement to Monitor Concentrations of Pollutants Discharged

Post Commissioning Air Emissions Report

62. ²⁶The Applicant must submit to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, within six months of the commissioning of the Gas Treatment Plant, a written report detailing the results of post commissioning source air emissions sampling and analysis undertaken in accordance with the requirements specified in Condition 58 and Condition 59. The report must assess compliance with the limit conditions specified in Condition 48 and Condition 50. The report must also include an assessment of flare operations and report on the results of continuous temperature monitoring and flaring incidents.

Evidence sighted:

Pre-audit period.

Note: ²⁷The objective of this condition is to demonstrate that the actual emissions are consistent with the design and the air emission limits specified in Condition 48.

Quarterly Reporting of Air Emissions

63. ²⁸The Applicant must submit the results of quarterly air emissions monitoring as required by Condition 58 on a quarterly basis for the first 12 months of the operation of the Gas Treatment Plant to the DECC's *Manager Sydney Industry at PO Box 668 Parramatta NSW 2124*. The results must be received by the DECC within one month of the date on which the sampling was undertaken for that quarter.

Evidence sighted:

Pre-audit period (AGL continue to submit quarterly results to the DECC).

Odour

64. ²⁹The Applicant must not cause or permit the emission of offensive odours from the premises, as defined under Section 129 of the *Protection of the Environment Operations Act 1997*.

²⁴ Incorporates a DECC General Term of Approval

²⁵ Incorporates a DECC General Term of Approval

²⁶ Incorporates a DECC General Term of Approval

²⁷ Incorporates a DECC General Term of Approval

²⁸ Incorporates a DECC General Term of Approval

²⁹ Incorporates a DECC General Term of Approval

Evidence sighted:

There are no odours produced from the gas wells as methane is odourless. Mercaptan is stored at RPGP. A Dangerous Goods notification is not required for Mercaptan at this quantity.

No odour complaints have been received.

Compliance status:

Compliant.

65. The Applicant must not cause the emission of detectable mercaptan odour from the premises.

Evidence sighted:

Regular preventative maintenance is undertaken on the mercaptan filtration system.

No odour complaints have been received.

Compliance status:

Compliant.

Note: ³⁰Should odour emissions become an issue, the DECC will consider requiring investigation and implementation of further odour control measures.

SURFACE WATER MANAGEMENT**Pollution of Waters**

66. ³¹Except as may be expressly provided for by a licence under the *Protection of the Environment Operations Act 1997* in relation to the development, the Applicant shall comply with section 120 of the *Protection of the Environment Operations Act 1997* in carrying out the development.

Evidence sighted:

All sites are constructed in accordance with site specific, approved Soil and Water Management Plans. A generic SWMP is being developed as part of the new EMS.

No issues regarding management of run-off were observed around well-sites at the time of the audit.

Compliance status:

Compliant.

Management of Waste Water

Note: Section 120 of the *Protection of the Environment Operations Act 1997* applies to the disposal of waste water. This section refers to the pollution of waters.

Operating Conditions

67. The Applicant shall undertake the development in a way that minimises the potential surface water impacts of the development.

Evidence sighted:

All sites are constructed in accordance with site specific, approved Soil and Water Management Plans and a Stormwater Management Plan was developed for the new access road which included sediment and erosion control measures during construction. A generic SWMP is being developed as part of the new EMS.

Wells are promptly rehabilitated to minimise soil exposure times and no issues regarding management of run-off were observed around well-sites at the time of the audit.

The liner of the evaporation pit at RGP is tested for integrity. During each test, the volume of water observed was reported to be very minimal, less than 10 litres. The last test was carried out in April 2008. Results show an increase in conductivity over time. Whether the rise in salinity and conductivity constitutes a significant issue is not

³⁰ Incorporates a DECC General Term of Approval

³¹ Incorporates a DECC General Term of Approval

assessable, as this depends largely on the groundwater flows, surrounding land use and the presence of nearby sensitive receptors. Neither the Environmental Management Plan nor the Soil and Water Management Sub Plan define water quality criteria for this test point.

Compliance status:

Indeterminate.

Recommended Action:

The criteria for the water quality testing to determine the integrity testing for the pond liner should be defined with reference to the ANZECC guidelines.

Monitoring Locations

68. ³²For the purposes of this consent, the points referred to in the table below are identified for the purposes of monitoring and/or setting of limits for the emission of pollutants to water from that point:

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Description of Location
8	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to waste processing facility	Pump connection point at evaporation pond as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
9	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to sewage treatment plant	Sewage connection point at sewage storage tank as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.
10	Discharge to waste facility Discharge quality monitoring	Discharge (by tanker) to waste processing facility	Pump connection point for oily water wastes as shown on 'Camden Gas Project Site Plan Location of Emission Points' drawing number 4229DG06 (Rev 2) provided to the DECC.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

Monitoring of Effluent Parameters

69. ³³For each monitoring/discharge point or utilisation area specified (by point number³⁴) in the table below, the Applicant must monitor (by sampling and obtaining results by analysis) each parameter specified in Column 1. The Applicant must use the sampling method, units of measure and sample at the frequency specified in the respective columns.

POINT 8

Pollutant	Units of Measure	Frequency	Sampling Method
Total suspended solids	Mg/L	Monthly	Representative
Biochemical oxygen demand	Mg/L	Monthly	Representative
Oil & Grease	Mg/L	Monthly	Representative
Total polycyclic aromatic hydrocarbons	µg/L	Monthly	Representative
Phenols	µg/L	Monthly	Representative
Total organic carbon	µg/L	Monthly	Representative
Total petroleum hydrocarbons	µg/L	Monthly	Representative
Electrical conductivity	µS/cm	Monthly	Representative

³² Incorporates a DECC General Term of Approval

³³ Incorporates a DECC General Term of Approval

³⁴ The location of the Point is defined in Condition 68

Water level in storage	Mm	Monthly	Direct measurement
------------------------	----	---------	--------------------

Evidence sighted:

Surface water monitoring was undertaken at the evaporation pond as required. Reporting of monitoring results is no longer a requirement of the EPL for the site as it was removed by DECC.

There is no discharge from the evaporation pond.

Compliance status:

Compliant.

70. ³⁵The Applicant must install a measurement device in the Evaporation Pond at the Gas Treatment Plant Site for recording the depth of effluent in the storage for the life of the Evaporation Pond.

Evidence sighted:

A ruler was observed to have been installed in the pond.

Compliance status:

Compliant.

Monitoring Program for Water Based Assessable Pollutants

71. ³⁶The Applicant must at least one month prior to the completion of construction of the Gas Treatment Plant, submit to the DECC's Manager Sydney Industry PO Box 668 Parramatta NSW 2128, a written report containing a program for monitoring assessable pollutants contained within the following waste streams:
- (a) oily water wastes proposed to be transported to the waste management facilities at Unanderra or Camellia or any other facility which can legally receive such wastes; and
 - (b) sewage waste proposed to be transported to the Bargo Ponds or any other facility which can legally receive such wastes.

Evidence sighted:

Pre-audit period.

Note: ³⁷Monitoring of non controlled aqueous waste is required by Condition 69.

Testing Methods – Concentration Limits

72. ³⁸Subject to any express provision to the contrary in this licence, the Applicant shall undertake monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area or taken off-site in accordance with the Approved Methods Publication unless another method has been approved by the DECC in writing before any tests are conducted.

Evidence sighted:

Off-site disposal of process water from the gas plant occurred during the reporting period. This was due to the design of the oil/ water separator. This has now been upgraded and there is no off-site disposal of waters. All process waters instead enter the evaporation pond. Prior to the upgrade of the oil/water separator, all process water was sampled prior to collection for off-site disposal to an appropriately licensed facility.

No waters are applied to a utilisation area.

Compliance status:

Compliant.

Gas Gathering System - Stream Crossings

Note: The *Rivers and Foreshore Improvement Act 1948* applies to the proposed development and therefore any excavation, removal of material from the bank, shore or bed of any stream, estuary or lake, or land within 40 metres from the top of the bank will require a Part 3A permit.

³⁵ Incorporates a DECC General Term of Approval

³⁶ Incorporates a DECC General Term of Approval

³⁷ Incorporates a DECC General Term of Approval

³⁸ Incorporates a DECC General Term of Approval

73. ³⁹The Applicant shall ensure that stream crossings B and F, as shown on the plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (Figure 2, Appendix B) are under-bored. The gas pipe is to be at least 2 metres below the bed of the watercourses. The bed and banks of the watercourses are not to be disturbed.

Evidence sighted:

Pre-audit period.

74. ⁴⁰The Applicant is permitted to trench stream crossings A, C, D, E, J, K, L, M, N, O, X, Y, Z, as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (Figure 2, Appendix B). The Applicant shall prepare and implement a representative trenched crossing design. The design shall be prepared and implemented by a person(s) with relevant knowledge, qualifications and experience, in consultation with the Director-General. The Applicant shall submit the plan for approval by the Department prior to the issue of the Part 3A Permit. The final crossing design is to be presented in plan view and cross section. The cross section is to be at right angles to the direction of flow, is to extend for a minimum distance of 10 metres from the top of both banks and is to include the location of all structures associated with the proposed crossing.

Evidence sighted:

Pre-audit period.

75. ⁴¹The Applicant shall ensure that stream crossing I as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (Figure 2, Appendix B) is strapped to the Menangle Bridge.

Evidence sighted:

Pre-audit period.

76. ⁴²The Applicant shall ensure that stream crossing H as shown on plan Camden Gas Project Stage 2 – RFI Act 3A Permit Areas by Sydney Gas (Figure 2, Appendix B), is either strapped to the existing road crossing, strapped to an upgraded road crossing, under-bored or consist of a pipe bridge. Should a pipe bridge be proposed, the Applicant shall prepare and implement a design of the crossing which shall be prepared and implemented by a person(s) with relevant knowledge, qualifications and experience, in consultation with the DWE. The Applicant shall submit the plan for approval by the Director-General prior to the issue of the Part 3A Permit. The final crossing design is to be presented in plan view and cross section. The cross section is to be at right angles to the direction of flow, is to extend for a minimum distance of 20 metres from the top of both banks and is to include the location of all structures associated with the proposed crossing.

Evidence sighted:

Pre-audit period.

Note: A Part 3A Permit may be required for a road crossing upgrade.

77. ⁴³The Applicant shall advise the Director-General of the proposed stream crossing methods located on EMAI, which are to be assessed and approved by the DWE prior to the issue of the Part 3A Permit.

Evidence sighted:

Pre-audit period.

78. ⁴⁴The Applicant shall ensure that works within 20 m of watercourses are to be undertaken during dry weather conditions.

Evidence sighted:

Works are not undertaken within 20m of watercourses during wet conditions. The EHSMP for the Gathering Line construction requires that during times of wet weather, activities shall be reduced to those that are essential.

Compliance status:

³⁹ Incorporates a DWE General Term of Approval

⁴⁰ Incorporates a DWE General Term of Approval

⁴¹ Incorporates a DWE General Term of Approval

⁴² Incorporates a DWE General Term of Approval

⁴³ Incorporates a DWE General Term of Approval

⁴⁴ Incorporates a DWE General Term of Approval

Compliant.

79. ⁴⁵The Applicant shall ensure that the disturbance to the bed and banks of all watercourses are kept at an absolute minimum during the construction procedure and reinstatement of the site.

Evidence sighted:

All sites are reportedly constructed in accordance with the site specific approved Soil and Water Management Plans (SWMPs) and disturbance to bed and banks are kept to a minimum.

Compliance status:

Compliant.

Management of Site Water and Sediment Runoff

80. The Applicant shall implement all practicable measures to minimise soil erosion and the discharge of sediments and water pollutants from the site.

Evidence sighted:

A number of measures to minimise soil erosion were observed during the site visit, including the use of sediment fences and the minimisation of disturbed access areas.

A sedimentation dam was installed at RGP during construction. This dam has been retained.

Compliance status:

Compliant.

81. ⁴⁶The Applicant shall ensure that the amount of dirty water and sediment from the site entering protected waters, or that is exposed to the flow of protected waters, or that is likely to detrimentally affect water quality, riparian vegetation or habitat or the environment is minimised in a manner acceptable to the Director-General.

Evidence sighted:

Potentially dirty water / sediment is generated from the following sources:

- stormwater run-off from disturbed areas of the site (including well heads, gas gathering lines and access roads);
- water produced from the wells during construction; and
- stormwater run-off from RGP.

Stormwater run-off from the well heads is minimised through the use of sediment fences, as observed at well RB07 during the audit.

Water generated during well construction is managed within lined drill pits as defined within the draft SWMP. It is then transported to the evaporation pond. Any highly saline water is transported from the site and disposed at licensed disposal facilities.

A sediment pond is located at RGP to collect stormwater run-off. There have been no discharges from the sediment pond during the audit period as the water is maintained in case of a bushfire.

Compliance status:

Compliant.

82. ⁴⁷The Applicant shall implement all relevant site drainage and sediment and erosion control works and measures and any other pollution controls as required by these conditions, prior to the commencement of any other works at the site.

Evidence sighted:

Sediment and erosion controls are put in place prior to drilling works taking place. A 'Drilling Operations Compliance Checklist' is completed for each well at each stage of well development. The checklist includes checking that sediment and erosion controls are installed and were observed to have been completed on each checklist for each well.

Compliance status:

Compliant.

⁴⁵ Incorporates a DWE General Term of Approval

⁴⁶ Incorporates a DWE General Term of Approval

⁴⁷ Incorporates a DWE General Term of Approval

83. ⁴⁸The Applicant shall document in detail the decommissioning of all sediment and erosion controls and any other water diversion structures to the satisfaction of the Director-General. The Applicant shall ensure that the decommissioning meets the requirements of the most recent version of the NSW Department of Housing's publication "*Managing Urban Stormwater: Soils and Construction*" (3rd Edition 1998).

Evidence sighted:

All sediment and erosion control measures are reportedly monitored and decommissioned in accordance with the Landcom guidance. Each well site has its own folder or log which details actions undertaken at each site.

Compliance status:

Compliant.

Soil and Water Management Plan

84. ⁴⁹The Applicant shall prepare and implement a Soil and Water Management Plan (SWMP) for the development. A person, with professional qualifications, knowledge and experience to industry standards, must prepare the SWMP. The Applicant shall seek the Director-General's prior approval of the person to prepare the Plan. The SWMP shall be prepared to the satisfaction of the Director-General prior to the issue of the Part 3A permit. This plan shall include, but not necessarily be limited to:

- (a) all works on protected land and in protected waters, and staging and maintenance requirements;
- (b) the measures to be implemented to minimise the potential for soil erosion and the discharge of sediment and other pollutants to lands and/or waters during drilling and construction activities;
- (c) the measures to be implemented to mitigate the impacts of stormwater run-off from and within the site following the completion of drilling and construction activities;
- (d) demonstrate that erosion and sedimentation control measures will conform with, or exceed, the relevant requirements and guidelines contained in the Department of Housing's publication "*Managing Urban Stormwater: Soils and Construction*" (3rd Edition 1998) or its latest version;
- (e) consistency with the stormwater management plan for the catchment, should one exist, or with the DECC's *Managing Urban Stormwater: Council Handbook* should a stormwater management plan for the catchment not exist;
- (f) any DECC licence requirements;
- (g) measures to rehabilitate erosion-affected areas and areas the subject of excavation, including the planting of local native tree, shrub and/or cover crop species;
- (h) measures to maintain the soil quality, soil integrity and soil structure of land on the EMAI during the construction and operation of the proposal;
- (i) implement a program of regular testing of waste water quality for compounds, nutrients and metals, as outlined in the EIS;
- (j) provide details of an appropriate soil sampling and monitoring program to ensure that areas used for waste water application do not lead to an unacceptable build-up of salts within the soil profile;
- (k) management procedures for all surface and groundwater collection and storage structures on the site, including a maintenance program for associated infrastructure (eg. pipes, pumps, dam walls, etc.) and a program for desilting of those structures, where relevant;
- (l) details of the well maintenance procedures to ensure the integrity of the well isolation components to prevent the cross contamination of groundwater aquifers; and
- (m) ensuring that saline groundwater which would exceed the ANZECC guidelines for the protection of aquatic ecosystems and irrigation application purposes is contained in lined holding evaporation ponds and diluted with fresh water prior to any application of the water to the land surface.

Evidence sighted:

Pre-audit period.

Soil and Water Management Plan – Rosalind Park Access Road

- 84A The Applicant shall prepare and implement a Soil and Water Management Plan for the relocated Rosalind Park access road, to the satisfaction of the Director-General. This plan must be submitted to the Director-General for approval prior to the commencement of construction, and:
- (a) be consistent with the requirements in *Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004* (Landcom);
 - (b) identify activities that could cause soil erosion and generate sediment;
 - (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
 - (d) describe the location, function, and capacity of erosion and sediment control structures; and

⁴⁸ Incorporates a DWE General Term of Approval

⁴⁹ Incorporates a DWE General Term of Approval

- (e) describe what measures would be implemented to maintain (and if necessary, decommission) the structures over time.

Evidence sighted:

A Stormwater Management Plan, dated April 2007 was developed for the new access road which included sediment and erosion control measures during construction.

Compliance status:

Compliant.

Piping and Filling of Watercourse

- 84B The Applicant shall obtain a Controlled Activity Approval under the *Water Management Act 2000* from DWE prior to work commencing on the piping and partial filling of the watercourse near GL05. The Applicant shall fully rehabilitate the watercourse after completion of the construction of GL17 to the satisfaction of DWE and the Director-General.

Evidence sighted:

A controlled activity approval (dated 3 June 2008) has been gained from the DWE for the above works. The work commenced after the audit period.

Compliance status:

Compliant.

Evaporation Pond Liner Integrity Evaluation Program

85. ⁵⁰The Applicant must submit at least 1 month prior to completion of construction of the Treatment Plant, to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, a written report containing a program for future evaluation of the integrity testing of the liner in the evaporation pond. The report must contain details of an initial evaluation of the liner prior to use and then an on-going program for review of the integrity of the liner.

Evidence sighted:

Pre-audit period.

86. ⁵¹Within one month of the report above being provided to the licensee, the licensee must submit, to the DECC's *Manager Sydney Industry PO Box 668 Parramatta NSW 2124*, a copy of each written report containing the results of an evaluation of the integrity testing of the liner in the evaporation pond as specified in the report submitted to the DECC as required by Condition 85.

Evidence sighted:

Pre-audit period.

INDIGENOUS HERITAGE

Protection of Indigenous Heritage

87. Prior to the commencement of site preparation works for the gas wells, gas gathering system and the Gas Treatment Plant Site, the Applicant shall clearly indicate the locations of known aboriginal relics on the site, and ensure that all employees and contractors are aware of these locations, to prevent the known relics being impacted upon during site preparation and construction.

Evidence sighted:

The planning process ensures that aboriginal relics are avoided. An example Aboriginal Heritage Management Plan (dated February 2007) for the EMAI property was viewed. This includes the management measures and protocols developed in response to advice provided by the Aboriginal community stakeholder groups. Generally management measures comprise relocating the well site.

Compliance status:

Compliant.

88. The Applicant shall provide a report of the Indigenous Heritage Monitoring undertaken for the Stage II project to DECC and the Director-General within two months of the Heritage Monitoring being completed.



⁵⁰ Incorporates a DECC General Term of Approval

⁵¹ Incorporates a DECC General Term of Approval

Note: Under Section 86 of the National Parks and Wildlife Act 1974, it is an offence to disturb or excavate any land with the purpose of discovering an Aboriginal object without first obtaining a Section 87 Permit.

Evidence sighted:

Pre-audit period.

Aboriginal Heritage – EM38

88A. The Applicant shall ensure that development of EM38 and upgrade of the gas gathering lines are undertaken in accordance with the recommendations in the reports titled “*Aboriginal Cultural Heritage Survey and Assessment Report – Camden Gas Joint Venture Project – Proposed Gas Well Location and Gas Gathering System Modifications, Camden, NSW*” dated February 2007, and “*Aboriginal Heritage Assessment – Sugarloaf Twin Gathering Line, Rosalind Park*” dated 8 September 2006.

Evidence sighted:

Artefacts at the EM38 (EM20) well site had to be relocated in accordance with the recommendations of the above report. AGL applied for an s87 permit for the relocation. Once the well site had been constructed and rehabilitated the artefacts were transferred back to their original location.

Compliance status:

Compliant.

Aboriginal Heritage – EM39 and GL17

88B. The Applicant shall ensure that development of EM39 and GL17 and upgrade of the gas gathering lines are undertaken in accordance with the recommendations outlined in the cultural heritage assessment carried out by Biosis Research Pty Ltd in Appendix B of the Statement of Environmental Effects titled “*Camden Gas Project Joint Venture – EM39 and GL 17 Modification Project*”.

Evidence sighted:

All vehicles stayed in previously cleared and disturbed areas as far as practicable and no Aboriginal relics were encountered during works.

Compliance status:

Compliant.

NON-INDIGENOUS HERITAGE

Protection of the Heritage Landscape of EMAI

89. The Applicant shall implement all mitigatory measures listed in Sections 7.1, 7.2 and 7.3 of the report titled “*Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle*” by Geoffrey Britton dated September 2003.

Evidence sighted:

Pre-audit period.

90. The Applicant shall ensure roadside plantings for sites EM 16, EM 18, EM 19 and EM 20 are strengthened using the species outline provided in the report titled “*Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle*” by Geoffrey Britton dated September 2003.

Evidence sighted:

Planting has been completed for EM18, EM19 and EM20. Planting at EM16 was not completed due to being within a sheep grazing paddock. All planting was carried out in consultation with the EMAI land manager.

Compliance status:

Compliant.

Note: a relic is defined under the Heritage Act as any deposit, object or material evidence:

- (a) which relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and
- (b) which is more than 50 years old.

90A. The Applicant shall ensure that, if any historical archaeological relics within the meaning of the *Heritage Act 1977* are disturbed, the Heritage Council of NSW shall be notified in accordance with section 146 of the *Heritage Act 1977*.

Evidence sighted:

No historical archaeological relics have been encountered during works under this development consent.

Compliance status:

Compliant.

SAFETY AND RISK MANAGEMENT

Risk Assessment

Pre-Construction Studies

91. The Applicant shall prepare and submit for the approval of the Director-General at least one month prior to the commencement of construction of the development (except for construction of those preliminary works that are outside the scope of the hazard studies), or within such further period as the Director-General may agree, the studies set out under subsections (a) to (c) (the pre-construction studies). Construction, other than of preliminary works that do not adversely affect facility safety, shall not commence until approval has been given by the Director-General and, with respect to the fire safety study, approval has also been given by the Commissioner of the NSW Fire Brigades.

(a) Fire Safety Study

A fire safety study for the gas treatment plant of the proposed development. This study shall cover relevant aspects of the Department's Hazardous Industry Planning Advisory Paper No. 2, "Fire Safety Study Guidelines". The study shall also be submitted for approval, to the NSW Fire Brigade.

(b) Hazard and Operability Study

Updated Hazard and Operability (HAZOP) Studies for the development, chaired by an independent qualified person approved by the Director-General prior to the commencement of the study. The studies shall cover any significant changes to the gas treatment plant or gas wells, since the HAZOPs carried out by Kvaerner E & C (Australia) Pty Limited (report dated 15 November 2002) and Worley Pty Ltd (report dated 13 March 2003). The updated HAZOPs shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8, "HAZOP Guidelines". The reports shall also cover the implementation status of all recommendations arising out of the original studies.

(c) Final Hazard Analysis

A final hazard analysis of the development, focusing on design changes since preparation of the preliminary hazard analysis, which significantly affect the risk results. The analysis should be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6, "Guidelines for Hazard Analysis".

Evidence sighted:

Pre-audit period.

Pre-commissioning Studies

92. The Applicant shall develop and submit for the approval of the Director-General, at least one month prior to the commencement of the commissioning of the development, or within such further period as the Director-General may agree, the plans and systems set out under subsections (a) and (b) (the pre-commissioning studies). Commissioning shall not commence until approval has been given by the Director-General. The Applicant shall implement the plans and systems set out under subsections (a) and (b) (the pre-commissioning studies).

(a) Emergency Plan

A comprehensive emergency plan and detailed emergency procedures for the development, including the gas wells and gas treatment plant. This plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the development. The plan shall be in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, "Industry Emergency Planning Guidelines".

(b) Safety Management System

A document setting out a comprehensive safety management system, covering all operations on the gas wells, gathering system and gas treatment plant. The document shall clearly specify all safety

related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on-site and shall be available for inspection by the Director-General upon request. The Safety Management System shall be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, "Safety Management".

Evidence sighted:

Pre-audit period.

Compliance Report

93. The Applicant shall submit to the Director-General one month prior to the commissioning of the plant, or within such period approved by the Director-General, a compliance report detailing compliance with Conditions 91 and 92, including:
- (a) dates of study submission, approval, commencement of construction and commissioning;
 - (b) actions taken or proposed, to implement recommendations made in the studies; and
 - (c) responses to any requirement imposed by the Director-General.

Evidence sighted:

Pre-audit period.

Incident Report

94. The Applicant is required within 24 hours of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment, to supply a report to the Department outlining the basic facts. A further detailed report shall be prepared and submitted following investigations of the causes and identification of necessary additional preventive measures. That report must be submitted to the Director-General no later than 14 days after the incident or potential incident.

The Applicant shall maintain a register of accidents, incidents and potential incidents. The register shall be made available for inspection at any time by the independent hazard auditor and the Director-General.

Evidence sighted:

A summary of the accident / incident register was provided. No reportable incidents have occurred within the reporting period.

Compliance status:

Compliant.

Hazard Audit

95. Twelve months after the commencement of operations of the proposed development or within such further period as the Director-General may agree, the Applicant shall carry out a comprehensive hazard audit of the proposed development and within one month of the audit submit a report to the Director-General. The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Director-General prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Director-General and a report of each audit shall within a month of the audit be submitted to the Director-General. Hazard audits shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines".

The audit shall include a review of the safety management system and a review of all entries made in the incident register since the previous audit.

Note:

The Applicant must comply with the requirements of the most recent version of the "Schedule of Onshore Exploration and production Safety Requirements" published by the DPI in August 1992 where equipment and/or pipeline are on a Production Lease.

Evidence sighted:

The last hazard audit was undertaken in 2006, pre-audit period. The next hazard audit is due in 2009.

Compliance status:

Not applicable.

Crime Risk Performance

96. The Applicant is required to implement measures to minimise the risk of crime from the proposed development. The Applicant shall implement the following measures prior to the operation of the proposed development.

Gas Treatment Plant

The Applicant is required to:

- a) ensure the Plant is closed to community access;
- b) fully enclose the Plant with a 3-metre metal framed chain mesh fence with a 3-strand barbed wire head;
- c) ensure the Plant is gated and manned 24 hours per day;
- d) keep vehicular and pedestrian gates closed at all times (when not in immediate use);
- e) use self-closing and self-locking pedestrian gates;
- f) use gate locking mechanisms that facilitate emergency egress; and
- g) ensure plant staff are adequately trained in undertaking security functions.

Gas Wellhead Sites

The Applicant is required to:

- a) install fixed (permanent) perimeter fencing and gates around each well head. The fencing and gates should be 3 metres high (all inclusive) metal framed and topped with a 3-strand barbed wire head; and
- b) keep gates securely hinged and permanently locked,

unless otherwise agreed by NSW Police.

Evidence sighted:

The requirements of this CoC have been met.

Compliance status:

Compliant.

Dangerous Goods

97. The Applicant shall ensure that the storage, handling, and transport of:
- (a) Dangerous goods is done in accordance with the relevant *Australian Standards*, particularly *AS1940* and *AS1596*, and the *Dangerous Goods Code*; and
 - (b) Explosives are carried out in accordance with the requirements of DPI.

Evidence sighted:

No Dangerous Goods notifications have been sent to Workcover regarding Dangerous Goods held at the RGP site.
--

The last Independent Environmental Audit recommended that a Dangerous Goods audit is undertaken against the requirements of the Occupational Health and Safety Act 2000 and Regulation 2001 (particularly Chapter 6A) and relevant standards. A Dangerous Goods audit of the chemical storage shed was carried out in June 2008, This provided minor recommendations to ensure that the storage of Dangerous Goods is carried out in compliance with the above guidance, such as relabelling and checking placarding requirements. The quantities of Dangerous Goods stored do not exceed notification thresholds.
--

Compliance status:

Compliant.

WASTE

Operating Conditions

Note: ⁵² These conditions only apply to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence under the <i>Protection of the Environment Operations Act 1997</i> .
--

98. ⁵³The 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

⁵² Incorporates a DECC General Term of Approval

⁵³ Incorporates a DECC General Term of Approval

premises to be disposed of at the premises, except as expressly permitted by a licence under the *Protection of the Environment Operations Act 1997*.

Evidence sighted: No waste is imported onto the RPGP site.
Compliance status: Compliant.

99. ⁵⁴Except 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:
- Waste oil/water, hydrocarbons/water mixtures or emulsions.

Evidence sighted: Only the above listed hazardous wastes are reportedly generated at the RPGP site, observations during the audit confirmed this to be the case. A full waste audit was not carried out. Saline drilling mud, which is considered hazardous, may be generated during drilling of well sites. Where this has occurred (not in relation to this DA) Veolia has removed the mud from site for disposal.
Compliance status: Compliant.

100. ⁵⁵The quantity of hazardous and/or industrial and/or Group A waste stored at the premises must not exceed 9000L at any one time.

Evidence sighted: In July 2006, DECC was notified that the current generation and on-site storage volume exceeded licence limits due to changes in the oily waste water separation process. The liaison process with DECC and DoP continues. DECC and DoP have reportedly agreed to the licence modification to 65,000L on site. The licence has not yet been updated.
Compliance status: Non-compliant.
Recommendation: Ensure the EPL variation is gained. Liaise with the DoP to amend this consent condition in accordance with the amended EPL condition.

101. ⁵⁶The 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.

Evidence sighted: In July 2006, DECC was notified that the current generation and on-site storage volume exceeded licence limits due to changes in the oily waste water separation process. The liaison process with DECC and DoP continues. DECC and DoP have reportedly agreed to the licence modification. The licence has not yet been updated.
Compliance status: Non-compliant.
Recommendation: Ensure the EPL variation is gained. Liaise with the DoP to amend this consent condition in accordance with the amended EPL condition.

⁵⁴ Incorporates a DECC General Term of Approval

⁵⁵ Incorporates a DECC General Term of Approval

⁵⁶ Incorporates a DECC General Term of Approval

102. ⁵⁷The quantity of non controlled aqueous liquid wastes generated at the premises must not exceed 3,000,000 L per year.

Evidence sighted: Controlled aqueous liquid wastes generated comprise saline groundwater. This waste is re-used on site and excess is disposed off-site. The quantity of liquid generated is above 3,000,000L between all AGL well sites, however it is below 3,000,000L in consideration of the 43 well sites under this consent.
Compliance status: Compliant.

103. ⁵⁸The Applicant must ensure that any hazardous, industrial or Group A waste at the premises is assessed and classified in accordance with the DECC's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes" in force as at 1 July 2003.

Evidence sighted: Oily water (waste category J120) from RGP was collected by the contractor Worth Oil for off-site disposal. The waste was analysed each time a load was collected. Oily water is no longer collected. During recent meetings with AGL, DECC has reportedly indicated that this condition should be removed due to the re-classification of oily water.
Compliance status: Compliant.

104. ⁵⁹The Applicant must ensure that waste identified for recycling is stored separately from other waste.

Evidence sighted: Waste collected for recycling and stored separately includes waste oils and oil filters from the RGP workshop, waste batteries, scrap steel, waste paper and cardboard, plastic piping and timber.
Compliance status: Compliant.

105. ⁶⁰Any movement of hazardous, industrial or Group A waste from the premises must be conducted in accordance with the DECC's waste tracking requirements. A copy of these tracking requirements is included in Schedule 8.

Evidence sighted: Waste transfer documentation for the oily water is maintained on site and copies viewed during the audit.
Compliance status: Compliant.

Waste Management Plan

106. The Applicant shall prepare and implement a Waste Management Plan for the whole site. This plan shall include, but not necessarily be limited to:

- (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.

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.

Evidence sighted:

⁵⁷ Incorporates a DECC General Term of Approval

⁵⁸ Incorporates a DECC General Term of Approval

⁵⁹ Incorporates a DECC General Term of Approval

⁶⁰ Incorporates a DECC General Term of Approval

The requirement for a Waste Management Plan is incorporated into the EHSMPs. A new Waste Management Plan has been developed as part of the new EMS, but has not yet been approved.

Compliance status:

Compliant.

ROADS AND TRAFFIC

Roads within EMAI

107. The Applicant shall not bring into the EMAI site, any roadbase material for new access roads to gas well sites EM 1 to EM 4 (inclusive) and gas well site EM 6 (refer to Figure 3, Appendix B for locations of roads).

Evidence sighted:

It is understood that this CoC was a requirement of the EMAI. However, during the last audit period EMAI had reportedly agreed to the use of off-site road base material rather than using the EMAI shale from its on-site pit as the EMAI did not want the shale used. More recently, EMAI has reportedly agreed to the use of shale from its on-site pit as roadbase material.

Compliance status:

Administrative non-compliance.

Recommendation:

No further action recommended.

108. The Applicant shall ensure that the existing access roads marked blue on Figure 3 (Appendix B) (between gas well sites EM 6 and EM 8) are used by light vehicles only.

Evidence sighted:

AGL reported that this condition is not relevant as the road in question has never been constructed.

Compliance status:

Not applicable.

109. The Applicant shall ensure that all heavy vehicles only travel along access roads designated for such vehicles.

Evidence sighted:

As CoC 108.

Compliance status:

Not applicable.

110. The Applicant shall ensure that during and immediately following heavy rainfall events, vehicle movements to gas well sites and / or gas gathering systems will cease.

Evidence sighted:

Following heavy rain events vehicle movements are reportedly ceased to reduce risk of getting bogged.

Compliance status:

Compliant.

111. On completion of drilling and fracking activities, the Applicant shall rehabilitate soils affected by compaction. This rehabilitation shall be conducted in consultation with a representative from EMAI.

Evidence sighted:

Topsoil and clays are stockpiled during drilling and are therefore not affected by compaction. Wells observed on EMAI during the site visit were observed to have been rehabilitated. EMAI are reportedly heavily consulted in the rehabilitation process.

Compliance status:

Compliant.

Works within the Wollondilly Shire Council Road Reserve

112. The Applicant shall prepare a Road Reserve Environment Management Plan (EMP) in consultation with Wollondilly Shire Council and Campbelltown City Council. The Road Reserve EMP shall be submitted to the Director-General for approval one month prior to the construction of the gas gathering line within the Road Reserve or within such period as approved the Director-General. The Road Reserve EMP shall include:

- (a) Proposed construction methods;
- (b) Soil erosion and sediment control measures for works undertaken during construction and following completion of the works;
- (c) Traffic control plans; and

- (d) Techniques for construction of the gas gathering line across Menangle Bridge.

Evidence sighted:

Pre-audit period.

113. The Applicant shall liaise with Wollondilly Shire Council regarding the proposed crossing of the gas gathering line across Menangle Bridge and undertake the proposed works to the satisfaction of Wollondilly Shire Council.

Evidence sighted:

Pre-audit period.

M5 Underbore – Menangle Park

114. The Applicant shall conduct the underboring of the M5 road to the satisfaction of the RTA. The Applicant shall ensure that the M5 underbore:
- (a) Has a minimum depth of 1.2 metres at the lowest point of the road formation;
 - (b) Excavation for the thrust pits are outside the Freeway Reserve; and
 - (c) Requires no access from within the Freeway for construction or maintenance purposes;

unless otherwise agreed by the RTA.

Evidence sighted:

Pre-audit period.

BUSHFIRE

Bushfire Hazard Measures

115. The Applicant shall implement the following bushfire hazard measures at the site:
- (a) Provision of a two-lane access road to the Treatment Plant area from Menangle Road;
 - (b) Provision of a 20 metre asset protection zone managed as an inner protection area, around the perimeter of the Gas Treatment Plant and gas well sites;
 - (c) Provision of a dedicated water supply tank of 20,000 Litres for the sole use of fire-fighting; and
 - (d) Provision of the location of gas wells, access roads to the gas well sites and access roads to the Gas Treatment Plant Site to the NSW Rural Fire Service.

Evidence sighted:

The 2006 audit noted that the above requirements had been implemented except for (b). This was due to the adjacent riparian area with vegetation protection requirements preventing the provision of a 20m asset protection zone.

The audit recommended liaising with the NSW Rural Fire Service to ensure the measures in place are sufficient in the absence of the 20m asset protection zone. Advice from the Fire Service has not been sort. However, AGL has recently consulted the DoP who reportedly concur with AGL's plan to manage and control vegetation in the protected area, instead of the provision of the asset protection zone.

Compliance status:

Non-compliant.

Recommendation:

Confirm with the NSW Rural Fire Service that in the absence of the 20m asset protection zone, alternative management and control of vegetation is sufficient to meet the RFS' requirements.

Note: The terms "Asset Protection Zone" and "Inner Protection Area" as specified in this Condition are defined within the "Planning for Bushfire Protection 2001" Guidelines published jointly by the NSW Rural Fire Service and the Department.

Measures for the Living Quarters Building

116. The Applicant shall consult with the NSW Rural Fire Service and lodge an application to the NSW Rural Fire Service for any approval or authorisation required in respect to the structure identified as "Living Quarters";

Evidence sighted:

Pre-audit period.

117. The Applicant shall comply with the requirements of any such further approval or authorisation granted by the NSW Rural Fire Service in respect of the structure "Living Quarters."

Evidence sighted:

Pre-audit period.

118. The Applicant shall construct and maintain the building "Living Quarters" and the surrounding area in accordance with the requirements of the "Planning for Bushfire Protection 2001" Guidelines published jointly by the NSW Rural Fire Service and the Department.

Evidence sighted:

Pre-audit period.

Bushfire Management Plan

119. The Applicant shall prepare and implement a Bushfire Management Plan for the whole site. This plan shall be prepared prior to the commissioning of the development and be prepared to the satisfaction of the Rural Fire Service having regard to any standard local government bushfire related requirements. The plan shall be submitted to the Director-General prior to commissioning and include, but not necessarily be limited to:

- (a) adequate fire protection works, fire fighting equipment and hazard reduction measures with particular attention to boundaries of adjoining landholdings;
- (b) an annual report on fire management activities to the Campbelltown Fire Management Committee; and
- (c) the incorporation of relevant bushfire hazard measures and policies of the three Councils.

Evidence sighted:

Pre-audit period.

REHABILITATION

Site Rehabilitation Performance

120. The Applicant shall ensure the prompt and effective rehabilitation of all disturbed areas of the site following the completion of construction, operations and associated activities and/or the decommissioning of plant, to minimise the generation of wind erosion dust.

Evidence sighted:
AGL has reported in the 2007 – 2008 draft AEPR that approximately 117Ha have been rehabilitated to date. Rehabilitation works at different stages were observed during the site visit.

Compliance status:
Compliant.

121. The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI.

Evidence sighted:
Rehabilitation is undertaken in accordance with the EHSMPs. Rehabilitation observed during the site visit appeared to be effective.

Compliance status:
Compliant.

122. The Applicant shall ensure that all areas of earthworks associated with the construction of the gas gathering system are rehabilitated to the pre-existing site conditions on completion of construction.

Evidence sighted:
Rehabilitation of the gas gathering line areas was generally observed to be good. Trench settlement and erosion was observed around a rehabilitated area of the gas gathering line near GL17. However, this gas gathering line was within a coal washing plant area and in consideration of the area the subsidence is not considered to be an issue. As the gas gathering lines tend to be laid in areas of high disturbance and along the route of existing infrastructure, it is unlikely that localised subsidence constitutes a significant issue.

Compliance status:
Compliant.

Rehabilitation of Gas Gathering System - Stream Crossings

123. ⁶¹The Applicant shall ensure that for all trenched crossings, the natural bed and bank profiles are restored to their original conditions, with smooth and even surfaces following the installation of the gas pipe.

Evidence sighted:
No issues were observed during the site visit. No significant works have been undertaken during the audit period.

Compliance status:
Compliant.

124. ⁶²The Applicant shall stabilise and rehabilitate as soon as possible all disturbed soil surfaces with sterile exotic cover crops and local native grasses. The Applicant is not permitted to use Kikuyu and other invasive grass species.

Evidence sighted:
A pasture-type seed mix is reported to be used for rehabilitation. This includes sterile exotic grasses.

Compliance status:
Compliant.

125. ⁶³The Applicant shall maintain and monitor all rehabilitated riparian zones for a period of at least two years after final planting. Maintenance must include sediment and erosion control, watering, weed control, replacement of plant losses, disease and insect control, mulching and any other requirements for achieving successful vegetation establishment.

Evidence sighted:
Internal audits of riparian areas are reportedly undertaken by AGL. No significant works have reportedly been required post rehabilitation.

Compliance status:

⁶¹ Incorporates a DWE General Term of Approval

⁶² Incorporates a DWE General Term of Approval

⁶³ Incorporates a DWE General Term of Approval

Compliant.

Note: The Director-General may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.

CONFIRMATION OF PROJECT COMPONENTS

Gas Flare Design Report

126. ⁶⁴The Applicant shall submit a written report at least one month prior to the commissioning of the flare, to the DECC's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, containing the following information:

- (a) Describe best practice flare design and, in particular, identify flare design and operational conditions that minimise emissions of air pollutants (including VOCs and nitrogen oxides), maximise destruction of hydrocarbons and maximise dispersion of air pollutants;
- (b) Benchmark the design of the proposed Stage II flare against best practice as identified in subclause (a);
- (c) Assess the ability of the proposed Stage II flare to meet a destruction efficiency of 98% for VOCs plus methane;
- (d) Identify any changes in the design of the proposed Stage II flare required to meet the best practice requirements identified in a) and the destruction efficiency and nitrogen oxides emission rate specified in subclause (c) and any difficulties in making these changes; and
- (e) Using the results of subclauses (a) to (d), identify the optimum temperature and residence time to achieve maximum destruction efficiency for the proposed flare design.

Evidence sighted:

Pre-audit period.

Note: This condition confirms the gas flare structure and specifications.

Gas Gathering System

127. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:
- (a) signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
 - (b) trenches are to be restored and reseeded with local grass seeds on completion of the work;
 - (c) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
 - (d) The Applicant shall construct the gas gathering system so as not to impeach lateral water flows;
 - (e) The Applicant shall ensure that no crown or camber remains along the gas gathering systems, following construction;
 - (f) the pipeline shall be designed, constructed and operated in accordance with the Australian Standard for the installation and maintenance of Plastic Pipe Systems for Gas AS 3723-1989; and
 - (g) the Department shall be notified on the completion of any trenching works.

Evidence sighted:

The EHSMP for the gas gathering lines contains the requirements to comply with this CoC.

- (a) Signs indicating the presence of buried pipeline have been erected and were observed during the site visit;
- (b) Trenches are narrow (1m – 2m wide) and seeding is not reported to be generally required;
- (c) Local traffic guidelines in respect of work carried out on road verges and underneath roads are reportedly implemented;
- (d) These areas are managed through the Part 3A permit system;
- (e) Crown and camber are removed following construction;
- (f) This is reportedly undertaken; and
- (g) The Project Manager for the gas gathering lines is responsible for notifying the Department upon completion of the trenching works.

Compliance status:

Compliant.

⁶⁴ Incorporates a DECC General Term of Approval

Menangle Park Urban Release

128. Should the future Local Environmental Plan and/or Master Plan for the Menangle Park urban release area identify the need to relocate any gas gathering lines the subject of this consent to ensure an efficient and environmentally sustainable urban outcome, that infrastructure shall be relocated by, and at the cost of the applicant to the satisfaction of the Director-General following consultation with Campbelltown City Council.

Evidence sighted:

Pre-audit period.

SCHEDULE 5

ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

1. The Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) to provide environmental management, practices and procedures to be followed during the drilling and construction phases of the proposed development. A framework plan outlining key practices, procedures and environmental management practices should be approved by the Director-General prior to the commencement of substantial construction. Sub-plans detailing implementation measures shall be submitted for approval at various stages of construction as agreed by the Director-General.

Evidence sighted:

Pre-audit period.

OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN

2. The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to provide environmental management practices and procedures to be followed during the operation of the development. The OEMP shall be forwarded to the Director-General for approval one month prior to commissioning. The OEMP shall include, but not necessarily be limited to:
 - (a) identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
 - (b) a description of the roles and responsibilities for all key personnel involved in the drilling and operation of the development;
 - (c) the overall environmental policies and principles to be applied to the operation of the development;
 - (d) standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved; and
 - (e) management policies to ensure that environmental performance goals are met and to comply with conditions of this consent.

Evidence sighted:

Pre-audit period.

3. The Applicant shall supply a copy of the CEMP and OEMP to the DECC, DPI, Camden Council, Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Director-General's approval. The Applicant shall ensure that a copy of the CEMP and OEMP is publicly available.

Evidence sighted:

Pre-audit period.

4. The Applicant shall review and update the OEMP annually, or as directed by the Director-General.

Note: Submission of a copy of the approved Plan to other Government agencies does not mean that their approval is required. The Plan is for the information of the agency.

Evidence sighted:

The EHSMPs are to be replaced shortly by the new EMS and sub-plans. Prior to this a review of the EHSMPs was undertaken in October 2007, during which the additional compressors at RPGP were included. A review was also undertaken in May 2006.

Compliance status:

Administrative non-compliance.

Recommendation:

As recommended in the previous audit, develop a schedule to ensure the EMS (formerly EHSMPs) is updated annually.

ANNUAL ENVIRONMENTAL PERFORMANCE REPORTING

5. Within twelve months of the date of this consent, and annually thereafter during the life of the development, the Applicant shall submit an Annual Environmental Performance Report to the Director-General. This report shall include, but not be limited to:
- (a) the standards, performance measures and statutory requirements the development is required to comply with;
 - (b) an assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
 - (c) reporting against the implementation of the Project Commitments Register;
 - (d) copy of the Complaints Register for the preceding twelve month period and indicating what actions were (or are being) taken to address these complaints;
 - (e) indication of what actions were taken to address any issue and/or recommendation raised by the Community Consultative Committee;
 - (f) provision of the detailed results of all the monitoring required by this consent;
 - (g) review of the results of this monitoring against:
 - impact assessment criteria;
 - monitoring results from previous years; and
 - predictions in the EIS;
 - (h) identify any non-compliance during the year;
 - (i) identify any significant trends in the data; and
 - (j) if any non-compliance is detected, describe what actions and measures would be carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time.

Evidence sighted:
The 2006 – 2007 AEPR was submitted to the DoP in December 2007 and the 2007 – 2008 AEPR is currently being finalised.
Compliance status:
Compliant.

6. The Director-General may require the Applicant to address certain matters identified in the Annual Environmental Performance Report. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:
Viewed a copy of the AGLs timetable for the implementation of outstanding Recommended Actions from 2006 / 2007 AEPR. This has been forwarded to the DoP for comment.
Compliance status:
Compliant.

7. The Applicant shall also submit a copy of the Annual Environmental Performance Report to the DECC, DPI, Camden Council, Campbelltown City Council and Wollondilly Shire Council. The Applicant shall make a copy of the Report publicly available.

Evidence sighted:
Evidence that the most recent AEPR was sent to the Councils, DECC and the DPI was observed, dated 17 December 2007.
The 2006 – 2007 AEPR is available on the AGL website.
Compliance status:
Compliant.

INDEPENDENT ENVIRONMENTAL AUDIT – CONSTRUCTION AT EMAI

8. The Applicant shall commission and pay the full costs of an Independent Environmental Audit of the construction of the gas gathering system, construction of the access roads and drilling and fracing of gas wells on the EMAI. The objective of the audit is to monitor the performance and effect of construction activities on the EMAI. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General; and
 - (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals.

The Audit shall:

- (a) assess the environmental performance of the construction of the development on EMAI, and its effects on the surrounding environment;
- (b) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (c) consider the Applicant's proposed Construction Environmental Management Plan for the EMAI Site; and
- (d) recommend measures or actions to improve the environmental performance of the construction of the development on EMAI, and/or its environmental management and monitoring systems (if required).

Evidence sighted:

Pre-audit period.

9. Within one month of completion of the audit, the Applicant must submit a copy of the audit report to the Director-General, the NSW Heritage Office and NSW Agriculture. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the NSW Heritage Office and NSW Agriculture. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:

Pre-audit period.

INDEPENDENT ENVIRONMENTAL AUDIT - OPERATION

10. Within two years of the date of this consent and every two years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
 - (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
 - (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals;
 - (c) assess the environmental performance of the development, and its effects on the surrounding environment;
 - (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
 - (e) review the adequacy of the Applicant's Environmental Management Plan; and
 - (f) recommend measures or actions to improve the environmental performance of the development, and/or its environmental management and monitoring systems.

Evidence sighted:

This audit report meets this requirement for reporting period July 2006 – June 2008.

Compliance status:

Compliant.

11. Within two months of commissioning the audit, the Applicant must submit a copy of the audit report to the Director-General, DECC and the DPI.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

ASSESSABLE POLLUTANTS – LOAD LIMITS

12. ⁶⁵The Applicant shall pay the load based licensing fees once a licence under the *Protection of the Environment Operations Act 1997* has been issued. The licence will identify the assessable pollutants for each fee-based activity classification. These assessable pollutants will be required to be monitored and pollutant loads calculated in accordance with the DECC's Load Calculation Protocol. The assessable pollutants and load limits applicable to this activity are given in the table below.

⁶⁵ Incorporates a DECC General Term of Approval

Assessable Pollutant	Load Limit (kg)
Benzene (air)	47
Benzo (a) pyrene (air)	0.27
Fine particles (air)	460
Hydrogen sulphide (air)	1.6
Nitrogen oxides (air)	103000
Sulphur oxides (air)	3000
Volatile organic compounds (air)	33000
Total suspended solids (water)	360
Biochemical oxygen demand (water)	370
Oil and grease (water)	96
Total PAHs (water)	0.14
Total phenolics (water)	0.1

Evidence sighted:

The load based licensing fee for the all the relevant assessable pollutants has been paid (those that relate to water are no long relevant).

Compliance status:

Compliant.

Note: ⁶⁶An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

⁶⁷The above load limits in the table may be revised after submission of annual returns for the first three years of operation of the plant.

Note: ⁶⁸Clause 17(1) and (2) of the *Protection of the Environment Operations (General) Regulation 1998* requires that monitoring of actual loads of assessable pollutants listed in Condition 12 (above) must be carried out in accordance with the testing method set out in the relevant load calculation protocol for the fee-based activity classification.

MONITORING AND RECORDING CONDITIONS

13. ⁶⁹The results of any monitoring required to be conducted by the DECC's General Terms of Approval, or a licence under the *Protection of the Environment Operations Act 1997*, in relation to the development or in order to comply with the load calculation protocol must be recorded and retained as set out in the conditions below (Condition 14 and 15).

Evidence sighted:

Monitoring results were observed to be maintained on site.

Compliance status:

Compliant.

14. ⁷⁰The Applicant shall keep all records required to be kept by the licence:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 years after the monitoring or event to which they relate took place; and
- produced in a legible form to any authorised officer of the DECC who asks to see them.

Evidence sighted:

Records are maintained on site indefinitely.

Compliance status:

Compliant.

⁶⁶ Incorporates a DECC General Term of Approval

⁶⁷ Incorporates a DECC General Term of Approval

⁶⁸ Incorporates a DECC General Term of Approval

⁶⁹ Incorporates a DECC General Term of Approval

⁷⁰ Incorporates a DECC General Term of Approval

15. ⁷¹The Applicant shall keep the following records in respect of any samples required to be collected:
- the date(s) on which the sample was taken;
 - the time(s) at which the sample was collected;
 - the point at which the sample was taken; and
 - the name of the person who collected the sample.

Evidence sighted:

This information is recorded on the chain of custody form sent to the laboratory and includes the dates and times at which the sample was taken, the name of the person who took the sample and the sample identification number. The sample identification number allows AGL to identify the location at which the sample was taken.

Compliance status:

Compliant.

REPORTING CONDITIONS

16. ⁷²The Applicant shall provide an Annual Return to the DECC in relation to the development as required by any licence under the *Protection of the Environment Operations Act 1997* in relation to the development. In the Annual Return the Applicant must report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with licence conditions and provide a calculation of licence fees (administrative fees and, where relevant, load based fees) that are payable. If load based fees apply to the activity the Applicant will be required to submit load-based fee calculation worksheets with the return.

Evidence sighted:

Two annual returns were submitted for RGP under Licence No. 12003 for the periods December 2005 to December 2006 and December 2006 to December 2007.

Compliance status:

Compliant.

COMMUNITY CONSULTATIVE COMMITTEE

17. The Applicant shall ensure the continuation of the existing Sydney Gas Operations Camden Project Community Consultative Committee to oversee the environmental performance of the development. The Committee shall continue to be chaired by an independent chairperson approved by the Director-General in consultation with the Applicant, Camden Council, Campbelltown City Council and Wollondilly Shire Council. The Committee shall:
- (a) have four community representatives residing in the PEL 2 area;
 - (b) have one representative from each of the following Councils: Camden Council, Campbelltown City Council and Wollondilly Shire Council;
 - (c) meet at least quarterly;
 - (d) take minutes of the meeting; and
 - (e) make comments and recommendations about the implementation of the development and environmental management plans, monitor compliance with conditions of this consent and other matters relevant to the operation of the Stage 2 development during the term of the consent.

Representatives from relevant government agencies or other individuals may be invited to attend meetings as required by the Chairperson.

Evidence sighted:

The Community Consultative Committee (CCC) meets regularly and is chaired by an independent person appointed by the DPI. During the November 2007 meeting it was discussed and agreed to change the frequency of the meetings from quarterly to every four months. This is reportedly due to lack of interest / issues raised by the community. URS viewed the notes of CCC meeting number 19, dated 27 March 2008 which records the independent meeting chair (Mrs Margaret Macdonald-Hill) as having received an approval letter from the Department of Planning to reduce the frequency of meetings.

Minutes of meetings were observed for 17 August 2006, 23 November 2006, February 2006, 2 August 2007, 22 November 2007 and 27 March 2008.

Compliance status:

Compliant.

18. The Applicant shall:

⁷¹ Incorporates a DECC General Term of Approval

⁷² Incorporates a DECC General Term of Approval

- (a) Ensure that two of its representatives attend the Committee's meetings;
- (b) Provide the Committee with regular information on the environmental performance and management of the development;
- (c) Ensure that the Committee has reasonable access to the necessary plans to carry out its functions;
- (d) Consider the recommendations and comments of the Committee and provide a response to the Committee and Director-General;
- (e) Provide access for site inspections by the Committee;
- (f) Make the minutes available for public inspection at Camden Council, Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Committee meeting, or as agreed to by the Committee; and
- (g) Forward a copy of the minutes of each Committee meeting, and any responses to the Committee's recommendations to the Director-General and the DPI within a month of each Committee meeting.

Evidence sighted:

Meeting minutes were reviewed and were found to comply with the requirements of the CoC.

- (a) Two representatives attend the CCC meetings;
- (b) The CCC is provided with the complaints register, the AEPR and the quarterly operations updates;
- (c) All plans are provided to the CCC;
- (d) Recommendations and comments are considered;
- (e) Site visits are organised;
- (f) Minutes are forwarded to the Local Councils within fourteen days of the CCC meetings; and
- (g) Minutes are forwarded to the DG and the DPI within a month of the CCC meetings.

Compliance status:

Compliant.

COMPLAINTS REGISTER

19. The Applicant shall record details of all complaints received in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:

- (a) the date and time, where relevant of the complaint;
- (b) the means by which the complaint was made;
- (c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
- (d) the nature of the complaints;
- (e) any action(s) taken by the Applicant in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the Applicant in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the DECC or the Director-General upon request. The Applicant shall also make summaries of the register, without details of the complainants, available for public inspection.

Evidence sighted:

Complaints are recorded in accordance with this CoC and reported in the AEPR.

Compliance status:

Compliant.

COMMUNITY AWARENESS PROTOCOL

20. The Applicant shall prepare a Community Awareness Protocol to advise nearby residents and appropriate authorities if a leak of mercaptan odourant occurs from the Gas Treatment Plant and/or associated facilities. The Protocol shall detail the circumstances when it will be implemented and describe the procedure and timeframe in which residents and authorities will be notified. The residents and authorities to be notified will be identified in the Protocol. The Applicant shall submit the Community Awareness Protocol to the Director-General for approval one month prior to commissioning of the Gas Treatment Plant.

Evidence sighted:

Pre-audit period.

SCHEDULE 6

MANDATORY CONDITIONS FOR ALL DECC LICENCES

ADMINISTRATIVE CONDITIONS

Other activities

Not applicable.

OPERATING CONDITIONS

Activities must be carried out in a competent manner

Licensed activities must be carried out in a competent manner.

- This includes:
 - a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

Evidence sighted:

Licensed waste contractors are used to manage waste and recycling.
--

Compliance status:

Compliant.

Maintenance of plant and equipment

- All plant and equipment installed at the premises or used in connection with the licensed activity:
 - a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

Evidence sighted:

Relevant equipment includes a continuous air monitoring device on the compressor exhaust and noise monitoring devices. These are reportedly calibrated as required.

Compliance status:

Compliant.

MONITORING AND RECORDING CONDITIONS

Recording of pollution complaints

The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

- The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 years after the complaint was made.

The record must be produced to any authorised officer of the DECC who asks to see them.

Evidence sighted:

A complaints register is maintained and provided in the AEPR.

Compliance status:

Compliant.

Telephone complaints line

The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

This condition does not apply until 3 months after the issue of an environment protection licence.

Evidence sighted:
The telephone complaints line is reportedly advertised at sites. No complaints relating to the well sites have reportedly been received on the complaints line during the audit period.
Compliance status:
Compliant.

REPORTING CONDITIONS

Annual Return documents

What documents must an Annual Return contain?

- The licensee must complete and supply to the DECC an Annual Return in the approved form comprising:
 - a) a Statement of Compliance; and
 - b) a Monitoring and Complaints Summary.

A copy of the form in which the Annual Return must be supplied to the DECC accompanies this licence. Before the end of each reporting period, the DECC will provide to the licensee a copy of the form that must be completed and returned to the DECC.

Period covered by Annual Return

An Annual Return must be prepared in respect of each reporting, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

- Where this licence is transferred from the licensee to a new licensee,
 - a) the transferring licensee must prepare an annual return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an annual return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- Where this licence is surrendered by the licensee or revoked by the DECC or Minister, the licensee must prepare an annual return in respect of the period commencing on the first day of the reporting period and ending on
 - a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence – the date from which notice revoking the licence operates.

Deadline for Annual Return

The Annual Return for the reporting period must be supplied to the DECC by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Notification where actual load can not be calculated

Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the DECC in writing as soon as practicable, and in any event not later than the due date.

- The notification must specify:
 - a) the assessable pollutants for which the actual load could not be calculated; and
 - b) the relevant circumstances that were beyond the control of the licensee.

Licensee must retain copy of Annual Return

The licensee must retain a copy of the annual return supplied to the DECC for a period of at least 4 years after the annual return was due to be supplied to the DECC.

Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary

Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the DECC to sign on behalf of the licence holder.

Evidence sighted:

Annual returns have been completed as required and submitted to DECC.

Compliance status:

Compliant.

Notification of environmental harm

Note: The licensee or its employees must notify the DECC of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act

Notifications must be made by telephoning the DECC's Pollution Line service on 131 555.

The licensee must provide written details of the notification to the DECC within 7 days of the date on which the incident occurred.

Evidence sighted:

No incidents causing or threatening material harm reportedly occurred during the reporting period. This is reported in the AEPRs.

Compliance status:

Compliant.

Written report

Where an authorised officer of the DECC suspects on reasonable grounds that:

- (a) where this licence applies to premises, an event has occurred at the premises; or
- (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

The licensee must make all reasonable inquiries in relation to the event and supply the report to the DECC within such time as may be specified in the request.

- The request may require a report which includes any or all of the following information:
 - a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; and
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;

- f) (details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event;
- g) (any other relevant matters.

The DECC may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the DECC within the time specified in the request.

Evidence sighted: No requests have been made by the DECC.
Compliance status: Compliant.

GENERAL CONDITIONS

Copy of licence kept at the premises or on the vehicle or mobile plant

A copy of this licence must be kept at the premises or on the vehicle or mobile plant to which the licence applies.

The licence must be produced to any authorised officer of the DECC who asks to see it.

The licence must be available for inspection by any employee or agent of the licensee working at the premises or operating the vehicle or mobile plant.

Evidence sighted: A copy of the current licence is kept on site in the office of the Environment & Safety Officer.
Compliance status: Compliant.

SCHEDULE 7

GENERAL CONDITIONS FOR PART 3A PERMITS DEPARTMENT OF WATER AND ENERGY

- 1 Irrespective of the granting of this consent or approval by any other Authority, work is not to commence in, or within a horizontal distance of 40m from the top of the bank of the watercourse/foreshore, without the prior issue of a Part 3A permit by the DWE.

Evidence sighted:

One Part 3A permit has been issued under this consent. This was for upgrading (twinning) of the gas gathering lines at Glenlee and was issued on 15 January 2008. A Controlled Activity Approval under the Water Management Act for piping and partial filling of the watercourse near GL05 was also issued under this consent. This is discussed under consent condition 84B.

Compliance status:

Compliant.

- 2 Prior to the issue of the Part 3A permit the applicant must provide the DWE with the following:
- A copy of the development consent including all conditions of approval;
 - Plans and/or other documentation (3 copies) that satisfy the DWE's General Terms of Approval and recommendations which are included in the consent conditions; and
 - The appropriate permit fee paid to the DWE.

Evidence sighted:

These were received before the 3A permit was granted.

Compliance status:

Compliant.

- 3 Work is to be carried out in accordance with drawings and any management plans required by these conditions and approved by the DWE that will accompany the 3A permit.

Evidence sighted:

It was reported that work was carried out in accordance with this CoC. A review of plans accompanying the 3A permit was not undertaken as part of this audit.

Compliance status:

Compliant.

- 4 Any Part 3A permit issued is to be renewed on an annual basis until all works and all rehabilitation, including maintenance provisions, have been satisfactorily completed in accordance with the permit conditions. Any application for renewal will be lodged at least 1 month prior to the permit expiry date.

Evidence sighted:

Not Applicable.

Compliance status:

Not Applicable.

- 5 Work shall not cause unnecessary damage to, or increase erosion of, the stream bed or banks. The permit holder shall carry out any instructions given by the DWE with a view to preventing degradation of the stream bed or banks.

Evidence sighted:

No specific instructions with regard to the 3A permit were given by the DWE. No issues were reported.

Compliance status:

Compliant.

- 6 Any vegetation or other material removed from the area of works shall be disposed of so that the material cannot be swept back into the stream during a flood.

Evidence sighted:

Vegetation is re-used around the site. No disposal of vegetation takes place.

Compliance status:

Compliant.

- 7 All works proposed must be designed, constructed and operated so they do not cause erosion or sedimentation and to minimise adverse impacts on aquatic and riparian environments.

Evidence sighted:

No significant erosion or sedimentation was observed at the time of the site visit. However, no work under a 3A permit was taking place at the time of the audit.

Compliance status:

Indeterminate.

Recommendation:

No further action recommended.

- 8 No plastic netting is to be used, for any purpose, in the stream or within the riparian zone unless such netting is of a rapidly biodegradable variety.

Evidence sighted:

It was reported that plastic netting is not used.

Compliance status:

Compliant.

- 9 Erosion and sediment control measures are required to be implemented prior to any works commencing, and must be maintained for as long as necessary after the completion of works, to prevent sediment and dirty water entering the river system. These measures are to be in accordance with Council's requirements and follow best management practices as outlined in the NSW Department of Housing's *"Managing Urban Stormwater: Soils and Construction"* (1998) manual (the "Blue Book").

Evidence sighted:

It was reported that hay bales and silt fences are used to prevent erosion and sedimentation of rivers. No work under a 3A permit was taking place at the time of the audit.

Compliance status:

Indeterminate.

Recommendation:

No further action recommended.

- 10 The excavation of soil/spoil and its removal is the responsibility of the permit holder and the owner or occupier of the land.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

- 11 The approval of NSW Fisheries is required for all proposed designs of in-stream works prior to the issue of the Part 3A permit.

Evidence sighted:

All necessary Part 3A permits have been issued.

Compliance status:

Compliant.

- 12 These conditions are issued with the proviso that operations shall be carried-out on freehold land. Should operations be on Crown Land, these conditions are null and void and the occupier of Crown Land should contact the Department of Lands to obtain landowner's consent.

Evidence sighted:

No activities have reportedly been undertaken on Crown Land.

Compliance status:

Compliant.

- 13 Work is to be carried out in accordance with any conditions imposed by other government agencies, provided such conditions do not conflict with these conditions or the conditions on the Part 3A permit.

Evidence sighted:

URS was not made aware of requirements imposed by other government agencies, other than where they are provided in these Development Consent Conditions and the EPL.

Compliance status: Compliant.

14 The permit holder and the owner or occupier of the land are responsible for any works undertaken by any other person or company on this site.

Evidence sighted: Noted.

Compliance status: Not applicable.
--

15 The rehabilitation of the area in accordance with the Part 3A permit conditions is the responsibility of the permit holder and the owner or occupier of the land.

Evidence sighted: Noted.

Compliance status: Not applicable.
--

16 Any Part 3A permit granted is not transferable to any other person or company without the written approval of the DWE and does not authorise works at any other site.

Evidence sighted: Noted.

Compliance status: Not Applicable.
--

17 Any Part 3A permit granted does not give the holder the right to occupy any land without the owner(s) consent nor does it relieve the holder of any obligation which may exist to also obtain permission from local government and other authorities who may have some form of control over the site and/or the activities proposed.

Evidence sighted: Noted.

Compliance status: Not applicable.
--

18 Work as executed survey plans of a professional standard shall be provided to the DWE upon request.

Evidence sighted: Plans were submitted as part of the Part 3A permit application.

Compliance status: Not applicable.
--

19 If, in the opinion of a the DWE officer, any activity is being carried out in such a manner that it may unnecessarily degrade the riparian zone, stream, lake or foreshore environment, all work shall cease immediately upon oral or written direction of such officer.

Evidence sighted: No inspection of works under a Part 3A permit by the DWE has taken place.

Compliance status: Not applicable.
--

20 If the permit conditions have been breached, the permit holder shall restore the site in accordance with the permit conditions and/or as directed by the DWE. If any breach of the permit conditions requires a special site inspection by the DWE, then the permit holder shall pay a fee prescribed by the DWE for this inspection and all subsequent breach inspections.

Evidence sighted: It was reported that no breach of the permit has been conducted.
--

Compliance status: Not applicable.
--

21 If works are to cease prior to completion the DWE must be notified in writing one month in advance of the cessation of the operation.

Evidence sighted:
Not applicable.
Compliance status:
Not applicable.

SCHEDULE 8

DECC WASTE TRACKING REQUIREMENTS

O5 Monitoring of waste movements within NSW

O5.1 Conditions O5.2 to O5.16 apply to the movement of the types of hazardous and/or industrial and/or Group A waste as listed in L5.3, within NSW.

Prerequisites for waste movements

- O5.2 If the waste is transported from the premises, the licensee must ensure that the waste is transported:
- (a) to a place which has been licensed by the DECC to issue consignment authorisation numbers; and
 - (b) to a place that can otherwise lawfully accept that class of waste.
- O5.3 If the waste is transported from the premises, the licensee must:
- (a) obtain a consignment authorisation number from the consignee;
 - (b) complete an approved waste data form in relation to the consigned waste in accordance with the instructions on the form and to the extent required, and give a copy of the form to the person transporting the waste;
 - (c) ensure that the waste data form:
 - (i) is completed accurately, and
 - (ii) is retained for a period of not less than 4 years from the time the form was completed, and
 - (iii) is made available for inspection by an authorised officer on request;
 - (d) ensure, if the waste is of such an amount as to require the person transporting it to be licensed, that the person transporting the waste is licensed.

Application for a consignment authorisation number

- O5.4 To obtain a consignment authorisation number as required by O5.3 (a), the licensee must apply in writing to the consignee. An application must include the following information:
- (a) a statement identifying the classification of the waste in accordance with the requirements of condition 04.1;
 - (b) copies of all information used to classify the waste;
 - (c) an estimate of the amount of waste to which the application applies;
 - (d) whether the consignment will consist a single load or multiple loads;
 - (e) an estimate of the total period required for transportation of the consignment;
 - (f) the date of dispatch of at least the first load in the consignment.

Note: The licensee may nominate the dates of dispatch of as many loads as is feasible. This should be discussed with the consignee and will depend on the predictability of the rate of generation of the waste and the likelihood of the need for amendments to the dates nominated. If the waste is predictable, a schedule may be able to be submitted for the entire consignment, however if it is unpredictable, the date of only one future load may be able to be determined at a time (see also O5.9 about amending notified dates).

Note: The requirement for a written application for a consignment authorisation number does not preclude preliminary contact to obtain quotes and/or advice. Such preliminary contact does not require the formal provision of the above information that need only be supplied in the formal application.

- O5.5 Once an application for a consignment authorisation number, as set out in O5.4 has been submitted, the licensee must not submit an application for the same consignment to another consignee until notification is received concerning the outcome of the application.

Notification of dates of dispatch of the second and subsequent loads in a consignment

- O5.6 The licensee must provide the consignee with written notification of the date of dispatch of each load of waste.
- O5.7 The notification referred to in O5.6 must be received by consignee no later than the date of arrival of the preceding load at the destination.

Notification of a final load in a consignment.

O5.8 Unless the movement of an entire consignment of waste occurs in a single load, by the time the final load in a consignment is accepted at the destination, the licensee must have informed the consignee in writing, that no further loads are to be dispatched under that consignment authorisation number.

Note: The notifications referred to in conditions 05.6 and 05.8 may be attached to the waste data form of the preceding load.

Amendments to the nominated date(s) of dispatch

O5.9 If the date of dispatch for a load of waste is changed, the licensee must give written notification of this to the consignee and nominate a revised date of dispatch.

O5.10 A notification referred to in 05.9 must occur on or before the date of delivery as previously nominated.

Note: More than one amendment to dates of dispatch may occur.

Cancellation of consignment authorisations

O5.11 If the licensee determines that the delivery of a consignment of waste is to be discontinued for any reason, the consignee must be notified in writing before the nominated date of dispatch of the next expected load.

Notification of delayed delivery by transporter

O5.12 If the licensee receives written notification from a transporter who removed waste from the premises specifying a revised date of delivery to the destination which is more than 7 days after the date of dispatch, the licensee must note and record that date.

Record keeping

O5.13 The licensee must record and retain all information related to each consignment of waste.

Note: This includes waste data forms and copies of other documents such as notifications of revised delivery dates, regular and other reports, etc.

O5.14 The records referred to in 05.13 must be kept so that:

- (a) all records relating to individual consignment authorisation numbers are kept physically together;
- (b) consignments transported by each transporter can be readily identified and accessed; and
- (c) consignments sent to each destination can readily be identified and accessed.

Note: The licensee must keep all information for at least 4 years.

Exception reporting

O5.15 The licensee must notify the DECC, in writing, within 48 hours of becoming aware of any suspected breaches of the Act, the Protection of the Environment Operations (Waste) Regulation 1996 or this licence.

O5.16 The licensee must notify the DECC in writing within 48 hours of becoming aware of any of the following:

- (a) the refusal by a person to whom the licensee has applied for a consignment authorisation number in accordance with 05.4 to issue such a number;
- (b) the refusal of a transporter to transport waste after arriving at the licensee's premises for the purposes of transporting that waste;
- (c) a transporter who transports, or attempts to transport, waste without a waste data form completed to the extent required;
- (d) the refusal of a consignee to accept waste from the licensee;
- (e) the failure of the licensee to receive written confirmation of receipt of waste from a consignee within 21 days of dispatch, or where a transporter has provided written notification of a revised date of delivery as set out in 05.12 within 21 days of that date;
- (f) the notification by a transporter of a revised date of delivery which is more than 90 days after the date of dispatch of the waste.

Note: The DECC should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Environment Protection Authority

O6 Monitoring of interstate movements of controlled wastes

O6.1 Conditions O6.2 to O6.11 apply to the movement of the types of hazardous and/or industrial and/or Group A waste as listed in L5.3, into and out of NSW.

Note: The requirements of the NEPM apply to the interstate movement of any of the wastes listed in Appendix 1 of this licence.

Classification of controlled waste

O6.2 The licensee must accurately identify the waste, in accordance with 04.1, and determine if the waste is a controlled waste within the meaning of the NEPM.

Note: The waste producer must check with the agency in the State or Territory of destination to determine whether waste is classified as a controlled waste under the NEPM. Unless advised otherwise by the agency of the State or Territory of destination, any waste included in Appendix 1 of this licence is a controlled waste for the purposes of the NEPM.

Application for a consignment authorisation

O6.3 If the waste is transported from the premises to another participating State or Territory, the licensee must comply with all conditions attached to the consignment authorisation issued by an agency or a facility delegated by an agency in the destination State or Territory.

Note: The waste producer is required by the Protection of the Environment Operations (Waste) Regulation 1996 to obtain, prior to the waste being dispatched, a consignment authorisation from an agency, or a facility delegated by an agency, in the destination State or territory to allow the movement of controlled waste.

Waste movements

O6.4 If the waste is transported from the premises to another participating State or Territory, the licensee must ensure that the waste is transported to a place that can lawfully be used as a waste facility for that waste.

O6.5 The licensee must ensure that the waste transporter is licensed as required by the agency of each participating State or Territory through which the waste is transported.

O6.6 The licensee must:

- (a) retain a copy of the waste transport certificate for the waste for a period of not less than 4 years from the time the form was completed, and
- (b) make the copy of the waste transport certificate available for inspection by an authorised officer on request.

Note: The waste producer is required by the Protection of the Environment Operations (Waste) Regulation 1996 to complete a waste transport certificate for the waste. This should be done in accordance with the instructions printed on the certificate and the required copy of the waste transport certificate should be forwarded to the agency in the State of destination.

Notification of delayed delivery by transporter

O6.7 If the licensee receives written notification from the transporter who removed waste from the licensee's premises specifying a revised date of delivery to the destination which is more than 7 days after the date of dispatch, the licensee must note and record that date.

Record keeping

O6.8 The licensee must record and retain all information related to each consignment of waste.

Note: This includes the waste transport certificates and copies of other documents such as consignment authorisations issued by an agency in the destination State or Territory, notifications of revised delivery dates by transporters, regular and other reports, etc.

O6.9 The records referred to in 06.8 must be kept so that:

- (a) all records relating to each consignment authorisation are kept physically together;
- (b) consignments transported by each transporter can be readily identified and accessed, and
- (c) consignments sent to each destination can readily be identified and accessed.

Note: The licensee must keep all information for at least 4 years.
Exception reporting

- 06.10 The licensee must notify the DECC in writing within 48 hours of becoming aware of a suspected breach of the Act, the Protection of the Environment Operations (Waste) Regulation 1996 or this licence.
- 06.11 The licensee must notify the DECC in writing within 48 hours of becoming aware of any of the following:
- (a) the refusal by an agency, or facility delegated by an agency, in participating State or Territory to whom the licensee has applied for a consignment authorisation in accordance with 06.3, to issue such an authorisation;
 - (b) the refusal of a transporter to transport waste after arriving at the licensee's premises for the purposes of transporting that waste to another participating State or Territory to the extent required;
 - (c) a transporter who transports, or attempts to transport, waste to another participating State or Territory without a waste transport certificate completed to the extent required;
 - (d) the refusal of a destination in another participating State or Territory to accept from the licensee waste for which a consignment authorisation has been issued;
 - (e) the failure of the licensee to receive written confirmation of receipt of waste from a destination in another participating State or Territory within 28 days of dispatch.

Note: The DECC should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Environment Protection Authority

R4 Regular reporting of transportation of certain wastes within NSW

- R4.1 Conditions R4.2 to R4.5 apply to the transport of hazardous and/or industrial and/or Group A waste within NSW.

Regular reporting

- R4.2 The licensee must supply to the DECC, for each transporter that transported waste from the licensee's premises, the information as set out in Appendix 2, table 1.
- R4.3 The licensee must supply to the DECC, for each destination within NSW which received waste from the licensee, the information as set out in Appendix 2, table 2.

Reporting periods

- R4.4 Reports to the DECC in accordance with R4.2 and R4.3 shall be supplied on or before:
- (a) 30 April for the reporting of information relating to wastes transported from the premises between 1 January and 31 March of that year;
 - (b) 31 July for the reporting of information relating to wastes transported from the premises between 1 April and 30 June of that year;
 - (c) 31 October for the reporting of information relating to wastes transported from the premises between 1 July and 30 September of that year;
 - (d) 31 January for the reporting of information relating to wastes transported from the premises between 1 October and 31 December of the previous year.

Note: The DECC should be notified of exception reports by sending a facsimile to:
Manager, Hazardous Waste Regulation
NSW Department of Environment and Climate Change

Nil reports

- R4.5 If waste has not been transported from the premises in any reporting period as set out in R4.4 the DECC must be advised in writing by the licensee, by the dates referred to in R4.4 in lieu of reporting as required in R4.2 and R4.3.

R5 Regular reporting of interstate movements of controlled wastes

- R5.1 Conditions R5.2 to R5.5 apply to the movement of hazardous and/or industrial and/or Group A waste as listed in L5.3, into and out of NSW.

Note: The requirements of the NEPM apply to the interstate movement of any of the wastes listed in Appendix 1 of this licence.

Regular reporting

R5.2 The licensee must supply to the DECC, for each transporter that transported waste from the premises to a destination in another participating State or Territory, the information as set out in Appendix 2, table 3.

Reporting periods

R5.3 Reports to the DECC in accordance with R5.2 shall be supplied on or before:

- (a) 30 April for the reporting of information relating to wastes transported from the premises between 1 January and 31 March of that year;
- (b) 31 July for the reporting of information relating to wastes transported from the premises between 1 April and 30 June of that year;
- 31 October for the reporting of information relating to wastes transported from the premises between 1 July and 30 September of that year;
- (d) 31 January for the reporting of information relating to wastes transported from the premises between 1 October and 31 December of the previous year.

Nil reports

R5.4 If waste has not been transported from the premises in any reporting period as set out in R5.3, the DECC must be advised in writing by the licensee, by the dates referred to in R5.3 in lieu of reporting as defined in R5.2.

Interstate transport of controlled wastes

R5.5 The licensee must comply with the requirements of the NEPM.

Evidence sighted:
There are reportedly no interstate waste movements from the site.
Licensed waste contractors are used to transport wastes. Waste transfer documentation for oily water and saline drilling mud was reviewed. These are received by facilities within NSW.
Compliance status:
Compliant.

APPENDIX A

SCHEDULE OF LAND¹

FACILITY	PROPERTY DP NUMBER
Gas Well GL 5	1101/883495
Gas Well GL 7	1101/883495
Gas Well GL 8	1101/883495
Gas Well GL 9	1101/883495
Gas Well GL 10	1102/883495
Gas Well GL14	1102/883495
Gas Well GL15	1102/883495
Gas Well GL16	1101/883495
Gas Well GL17	1101/883495
Gas Well WG 1	24/4450
Gas Well WG 2	23/4450
Gas Well WG 3	23/4450
Gas Well WG 4	24/4450
Gas Well WG 5	23/4450
Gas Well WG 6	23/4450
Gas Well RP 1	3/622362
Gas Well RP 2	3/622362
Gas Well RP 3	3/622362
Gas Well RP 4	58/632328
Gas Well RP 5	58/632328
Gas Well RP 6	58/632328
Gas Well RP 7	58/632328
Gas Well RP 8	PT35/230946
Gas Well RP 9	PT35/230946
Gas Well RP 10	2/622362
Gas Well RP 11	2/622362
Gas Well RP 12	2/622362
Gas Well EM 1	11/658458
Gas Well EM 2	11/658458
Gas Well EM 3	11/658458
Gas Well EM 4	11/658458
Gas Well EM 5	11/658458
Gas Well EM 6	11/658458
Gas Well EM 7	11/658458
Gas Well EM 8	11/658458
Gas Well EM 9	PT1/168893
Gas Well EM 10	1/726446
Gas Well EM 11	PT1/168893
Gas Well EM 12	PT1/168893
Gas Well EM 13	1/726446
Gas Well EM 14	PT1/168893
Gas Well EM 15	PT1/168893
Gas Well EM 16	PT1/168893
Gas Well EM 17	PT1/168893
Gas Well EM 18	1/130288
Gas Well EM 19	1/130288
Gas Well EM 20	1/130288
Gas Well EM38	1/130288
Gas Well EM39	2/1050479
Gas Gathering System – Glenlee	1102/883495, 1101/883495
Gas Gathering System – Wandingong	23/4450, 24/4450
Gas Gathering System – Rosalind	2/622362, 3/622362,

FACILITY	PROPERTY DP NUMBER
Park	PT35/230946, 58/632328
Gas Gathering System – EMAI	1/130288, 1/726446, 11/658458, PT1/168893
Gas Gathering System – Landcom	2/790254, X/378264, D/19853, 2/737485
Gas Gathering System – Campbelltown Council	3/236059, 7/787284, 1/249393
Water Storage Tank – Campbelltown Council	2/236059
Gas Gathering System – Wollondilly Shire Council	Road Reserve
Gas Treatment Plant	PT35/230946

APPENDIX B

SCHEDULE OF FIGURES

Figures enclosed in this Appendix include:

- Figure 1 - Sydney Gas Camden Gas Project Stage II Site Plan;
- Figure 2 - Sydney Gas Camden Gas Project Stage 2 – RFI Act 3A Permit Areas;
- Figure 3 - Sydney Gas Camden Gas Project Stage 2 – Amendment to EMAI Access Road (18-11-2004 Map Ref M240329); and
- Figure 4 - Sydney Gas Camden Gas Project Stage 2 – Amendment to EMAI Gathering System (18-11-2004 Map Ref M240328).
- Figure 5 - Proposed Deviated Wells from GL07.
- Figure 6 - Well Location with Property Description, dated 4/10/06.
- Figure 7 - Well Location with Property Description.
- Figure 8 - Proposed Mod.3 – Well EM38 and Gathering Line Upgrades.
- Figure 9 - Overview GL17 and EM39 Modifications.

APPENDIX C

CONDITION 2(C) - SCHEDULE OF DOCUMENTS

Documents referred to in Condition 2(c) of Schedule 3 include all of the following documents:

- (i) Email from Sydney Gas Operations to the Department dated 21 July 2003 titled "Wandinong Wells Flora and Fauna Reports" and attachments;
- (ii) Letter from Sydney Gas Operations to the EPA dated 22 July 2003 regarding addendum property tables, future urban release areas and waste materials;
- (iii) Email from Sydney Gas Operations to the Department dated 22 July 2003 regarding an amended schedule of property lots in relation to the DA and EIS;
- (iv) Email from Sydney Gas Operations to the Department dated 30 July 2003 regarding addendum Tables of Property Lots and Deposited Plans for inclusion in the Development Application;
- (v) Email from Sydney Gas Operations to the Department dated 31 July 2003 and attached amended gas gathering map;
- (vi) Email from Sydney Gas Operations to the Department dated 11 August 2003 defining the areas of well development and well operation;
- (vii) Email from Sydney Gas Operations to the Department dated 11 August 2003 regarding raptor breeding zones;
- (viii) Email from Sydney Gas Operations to the Department dated 13 August 2003 regarding well head configuration;
- (ix) Letter from Environmental Resources Management Australia to Sydney Gas Company dated 20 August 2003 regarding additional noise information;
- (x) Letter from Environmental Resources Management Australia to Sydney Gas Company dated 22 August 2003 regarding additional air quality impact assessment information;
- (xi) Email from Sydney Gas Operations to the Department dated 27 August 2003 titled "Plant Emissions" enclosing a plan showing the discharge points of the proposed Treatment Plant;
- (xii) Email from Sydney Gas Operations to the Department dated 27 August 2003 and attached "Emission Data for EPA";
- (xiii) Email from Sydney Gas Operations to the Department dated 28 August 2003 with attached plans of gas well sites with respect to heritage sites;
- (xiv) Letter from Sydney Gas Operations to the EPA dated 2 September 2003 with attached "Emission Data for EPA";
- (xv) Letter from Sydney Gas Operations to the Department dated 2 September 2003 concerning flora and fauna issues and attached letter from Wildscapes Eco-Research to Sydney Gas Operations dated 15 August 2003;
- (xvi) Email from Sydney Gas Operations to the Department dated 5 September 2003 enclosing Figure 5 from the Quantitative Risk Assessment for the EIS;
- (xvii) Supplementary Report titled "Statement of Heritage Impact for Land within the Elizabeth Macarthur Agricultural Institute NSW Agriculture, Menangle" prepared by Geoffrey Britton for Sydney Gas Ltd dated September 2003;
- (xviii) Letter from Sydney Gas Operations to the Department dated 10 September 2003 containing plans of the proposed facilities;
- (xix) Email from Sydney Gas Operations to the Department dated 25 September 2003 regarding heights and dimensions of proposed buildings;
- (xx) Letter from Sydney Gas Operations to the Department dated 29 September 2003 regarding Part 3A Permits;
- (xxi) Letter from Sydney Gas Operations to the Department dated 29 September 2003 regarding flora and fauna information;
- (xxii) Letter from Sydney Gas Operations to the Department dated 29 September 2003 enclosing a report titled "Sydney Gas Proposal – Stage 2 Coal Seam Methane Project Visual Assessment" prepared by URS for Sydney Gas, dated 25 September 2003;
- (xxiii) Supplementary report provided by Sydney Gas titled "Camden Gas Plant Site Alternate Assessment" dated 30 September 2003;
- (xxiv) Supplementary report titled "Response to EPA: DA-282-6-2003 Proposed Sydney Gas Stage II Coal Bed Methane Proposal" prepared by URS for Sydney Gas dated 21 October 2003;
- (xxv) Letter from Environmental Resources Management Australia to Sydney Gas dated 22 October 2003 titled "Stage 2 Coal Bed Methane project – Response to the EPA's Request for Flare Noise Details";
- (xxvi) Email from Sydney Gas Operations to the Department dated 27 October 2003 and attachments regarding the specifications of the flare;
- (xxvii) Email from Sydney Gas Operations to the Department dated 29 October 2003 with an attachment titled "Camden Gas Project Stage II Treatment Plant Footprint";
- (xxviii) Email from Sydney Gas Operations to the Department dated 12 November 2003 regarding the capacity of the Plant and staging of compressor engines;

- (xxix) Letter from Sydney Gas Operations to the Department dated 14 November 2003 enclosing five photomontages of the proposed facilities;
 - (xxx) Report titled "Response to EPA: DA-282-6-2003 Proposed Sydney Gas Stage II Coal Bed Methane Proposal" prepared by URS for Sydney Gas dated 18 November 2003;
 - (xxxi) Email from Sydney Gas Operations to the Department dated 19 November 2003 regarding the capacity of the Treatment Plant and number of wells;
 - (xxxii) Report titled "NOx Dispersion Modelling Study – Proposed Camden Gas Project Stage II (DA-282-6-2003)" prepared by URS for Sydney Gas dated 20 November 2003;
 - (xxxiii) Email from Sydney Gas Operations to the Department dated 24 November 2003 and attached document describing workover operations;
 - (xxxiv) Letter from Sydney Gas Operations to Manager Sydney Industry, DEC dated 24 November 2003, titled "NOx Emissions from Stage II Plant";
 - (xxxv) Letter from URS to Sydney Gas dated 12 December 2003 regarding "NOx emissions from Stage II Plant";
 - (xxxvi) Facsimile from Sydney Gas Operations to the EPA dated 16 December 2003 titled "Further Requisitions in Relation to Stage II of the Sydney Gas Camden Project";
 - (xxxvii) Email from Sydney Gas Operations to the Department dated 23 December 2003 containing attachments regarding the status of gas wells, TEG Regeneration Package Emissions Data, Site Plan and Location of Emission Points (Revision 2), letter from Sydney Gas Operations to the EPA dated 23 December 2003 titled "Sydney Gas Operations Pty Ltd Stage 2 – Coal Seam Methane Proposal – General Terms of Approval", and brochure titled "Bentofix with Thermal lock" produced by Geofabrics Australasia Pty Ltd;
 - (xxxviii) Email from Sydney Gas Operations to the Department dated 2 January 2004 regarding the Start Gas Vents, stormwater pond and compressor engines;
 - (xxxix) Email from Sydney Gas Operations to the EPA dated 5 January 2004 titled "EPA Request for additional information";
 - (xl) Email from Sydney Gas Operations to the EPA dated 7 January 2004 titled "Revised GTA's - Sydney Gas Stage II" and attachments;
 - (xli) Email from Sydney Gas Operations to the EPA dated 12 January 2004 titled "GTA's - Sydney Gas Stage II" and attachments;
 - (xlii) Email from Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 9 January 2004 titled "GTAs- Sydney Gas Camden Project – Stage II " with attachments from ERM titled "Stage II Coal Bed Methane –GTA Noise limits", attachment from URS titled "EPA Revised Draft GTAs (Version 3) and graph titled "NOx Emissions Levels Between Major Engine Overhauls";
 - (xlili) Email from Wendy Gurd of Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 12 January 2004 titled "GTAs- Sydney Gas Camden Project – Stage II "and
 - (xliv) Email from Sydney Gas Company to Greg Abood of Department of Environment and Conservation dated 27 January 2004 titled "Sydney Gas – GTAs".
-

Development Consent

Section 80 of the *Environmental Planning & Assessment Act 1979*

I, the Minister Assisting the Minister for Infrastructure and Planning (Planning Administration), approve the Development Application referred to in Schedule 1, subject to the conditions in Schedule 2.

The reason for these conditions is to:

Prevent and minimise any adverse environmental impacts associated with the development; and

(i.) Provide for the on-going environmental management of the development.

Diane Beamer MP
**Minister Assisting the Minister for Infrastructure and
Planning (Planning Administration)**

Sydney,

2004

File No. S02/02299

SCHEDULE 1

Development Application:	DA-183-8-2004-i
Applicant:	Sydney Gas Operations Pty Limited
Consent Authority:	Minister Assisting the Minister for Infrastructure and Planning (Planning Administration)
Land:	Lot 1/DP 954424 (Wells MT1 -MT 10 inclusive) Lot 10/DP 1022204 (Wells MP13 -MP17 inclusive) Lot 10/DP 1022204 (MP30)
Proposed Development:	The Project includes: <ul style="list-style-type: none">• Connection of 15 existing coal seam methane wells to the previously approved Stage 2 Camden Gas Project – Gas Treatment Plant, for the production of methane gas; and• Construction of a Dam at the MT1 gas well site.• Construction, drilling and operation of 1 surface to in seam well (MP30) at MP13 and upgrading (twinning) of the gas gathering line between MP13 and MP14.
State Significant Development:	The proposed development is State significant development by virtue of a Declaration made by the Minister for Infrastructure and Planning on 13 June 2003 under Section 76A of the <i>Environmental Planning and Assessment Act 1979</i> .
Integrated Development:	The proposal is classified as integrated development under Section 91 of the Environmental Planning and Assessment Act 1979, as it requires an additional approval under the <i>Mine Subsidence Compensation Act 1961</i>

Note:

- 1) To find out when this consent becomes effective, see Section 83 of the Act,
- 2) To find out when this consent is liable to lapse, see Section 95 of the Act; and
- 3) To find out about appeal rights, see Section 97 of the Act.

SCHEDULE 2

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:

Activities undertaken during this audit period include the construction and drilling of the MP30 surface to in-seam well and twinning of the gas gathering line between MP13 and MP14.
--

No significant harm to the environment was observed during the site visit of areas visited.

Terms of Approval

2. The Applicant shall carry out the development generally in accordance with the:
 - (a) DA submitted to the Department on 28 July 2004;
 - (b) "Statement of Environmental Effects -Harness Racing Drilling Program" Sydney Gas Company dated 24 June 2003;
 - (c) "Review of Environmental Effects -Mt Taurus Drilling Program" Sydney Gas Company dated March 2004;
 - (d) Modification application MOD 27-3-2007 and Camden Gas project Venture Gas well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007; and
 - (e) Conditions of this consent.

If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of the inconsistency.

Evidence sighted:

The development was reported to have been carried out in accordance with the above requirements.
--

Compliance status:

Compliant.

3. The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) any reports, plans or correspondence that are submitted in accordance with this consent; and
 - (b) the implementation of any actions or measures contained in these reports, plans or correspondence.

Evidence sighted:

Requests are reported to have been complied with.

Compliance status:

Compliant.

4. This approval is for a period of twenty one (21) years from the granting of the production lease.

Evidence sighted:

Noted

Compliance status:

Not applicable.

5. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 16 wells for gas production) or gas gathering lines.

Evidence sighted:

The first 15 wells were permitted under a PEL and have been drilled. AGL applied for an additional consent for the surface to in-seam well, which was approved as part of MOD 27-3-2007 to this consent.
--

Compliance status:

Compliant.

6. The Applicant shall provide Campbelltown City Council and Wollondilly Shire Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well sites and gas gathering systems within their respective Local Government Area, in a format suitable to each of these Councils, within two months of the completion of the gas wells and gas gathering system.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under these DAs are also not available.

Compliance status:

Non-compliant.

Recommended action:

Ensure compliance with this CoC for any new wells under this DA. Maintain records so they can be verified during the next audit.

7. The Applicant shall provide Campbelltown City Council and Wollondilly Shire Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The wellhead configurations for new wells under this DA are also not available.

Compliance status:

Non-compliant.

Recommended Action:

Ensure compliance with this CoC for any new wells under this DA. Maintain records so they can be verified during the next audit.

8. The Applicant shall provide written notification to the Director-General that it has fulfilled the requirements of Conditions 6 and 7, within two weeks of the information being provided to the Councils.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. Correspondence relating to new wellheads is also unavailable.

Compliance status:

Non-compliant.

Recommended Action:

Ensure compliance with this CoC for any new wells under this DA. Maintain correspondence so it can be verified during the next audit.

Environmental Management

9. Except as may be expressly provided for by a licence under the Protection of the Environment Operations Act 1997 in relation to the development, the Applicant shall comply with section 120 of the *Protection of the Environment Operations Act 1997*, in carrying out this development.

Evidence sighted:

Pre-audit period.

Note: Section 120 of the *Protection of the Environment Operations Act 1997* applies to the disposal of wastewater.

10. The Applicant is required to ensure that the Dam at gas well site MT1 is appropriately lined so that waters stored in the dam do not potentially contaminate the surrounding and underlying soils.

Evidence sighted:

The Dam at MT1 was reported to be lined. The dam, which was formerly used for storage was rehabilitated and backfilled in June 2008.

Compliance status:

Compliant.

11. The Applicant is not permitted to spray or discharge water from the earth Dam at gas well site MT 1, onto any land or water surface unless it has prior written approval from the Director-General.

Evidence sighted:

The water from the Dam at MT1 was reportedly not discharged.

Compliance status:

Compliant.

12. The Applicant is required to store and manage the use and disposal of water in accordance with the current version of the Department of Environment and Climate Change's

"Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes."

Evidence sighted:

The wastewater is reported to be disposed as a non-controlled aqueous liquid waste.

Compliance status:

Compliant.

13. The Applicant shall undertake the development in a way that minimises the noise generated by the development.

Evidence sighted:

The approved EHSMPs include noise mitigation measures.

Compliance status:

Compliant.

- 13A. The Applicant shall ensure that all construction work (except for drilling (including well casing and grouting) of surface to in seam wells), shall only be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am to 1.00pm on Saturdays unless inaudible at any residential receiver.

Evidence sighted:

The approved EHSMPs include standard operating hours. These are also included in the contractor's induction. No noise complaints have been received under this consent.

Compliance status:

Compliant.

- 13(b) Noise from the drilling and construction of MP30 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am – 6.00pm) Saturday (7.00am – 1.00pm)	Weekday (1.00pm – 6.00pm) Sunday (7.00am – 6.00pm)	Evening (6.00pm – 10.00pm)	Night (10.00pm – 7.00am)
Nearest Receiver	57	42	42	40

Evidence sighted:

Drilling noise monitoring results from properties near MP30 confirm the above criteria have not been exceeded.

Compliance status:

Compliant.

14. The Applicant is required to prepare and implement a Water Management Plan for the sites and the Dam at MT 1 for the life of the development. The Water Management Plan will include (and not be limited to) sediment and erosion control measures to be implemented prior to the construction of the earth Dam at gas well site MT1. The Applicant shall submit the Water Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

Pre-audit period.

15. The Applicant is required to prepare and implement a Flood Management Plan for the sites for the life of the development. The Flood Management Plan will include (and not be limited to) measures to minimise and mitigate flooding impacts. The Applicant shall submit the Flood Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

Pre-audit period.

16. The Applicant is required to prepare and implement a Soil and Water Management Plan for the sites for the life of the development. The Applicant shall submit the Soil and Water Management Plan for the Director-

General's approval within one month of the date of this consent.

Evidence sighted:

A SWMP has been submitted for each well site and approved by the Director-General.

Compliance status:

Compliant.

16(a) The Applicant shall ensure that, if any historical archaeological relics within the meaning of the Heritage Act 1977 are disturbed, the Heritage Council of NSW shall be notified in accordance with section 146 of the Heritage Act 1977.

Evidence sighted:

No archaeological relics have reportedly been uncovered during excavations under this development consent.

Compliance status:

Compliant.

16(b) The Applicant shall ensure that, during the drilling and construction of MP30 and upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited, to the following:

- a) The recommendations outlined in Sections 6 and 7 of the Ecosearch Environmental Consultants Pty Ltd report titled "Flora and fauna Assessment, AGL Gas Well and Gathering Line Project Modifications"; and
- b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

Evidence sighted:

No threatened species were reportedly impacted by the MP30 drilling and construction works.

Compliance status:

Compliant.

17. The Applicant is required to prepare and implement a Weed Management Plan for the sites for the life of the development. The Applicant shall submit the Weed Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

Pre-audit period.

Redrilling and Refracking Management Plan

Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance

18. The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracing of a gas well.

Evidence sighted:

No refracking / redrilling has occurred under this consent.

Compliance status:

Not applicable.

19. The Applicant shall prepare a Redrilling and Refracking Management Plan in consultation with the Department of Primary Industries for the redrilling and/or refracking of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. The Plan shall include, but not necessarily be limited to:

- (a) a description of all the activities to be undertaken on the well site during the redrilling and/or refracking work;
- (b) details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;
- (c) reference to the relevant parts of the Environmental Management Plan required under condition 21 of this consent;
- (d) compliance with all the relevant environmental performance requirements of this consent; and
- (e) arrangements for complaints handling procedures during the redrilling/refracking work.

Evidence sighted:

No refracting / redrilling has occurred under this consent.

Compliance status:

Not applicable.

20. The Applicant shall give written notification of the proposed redrilling/refracting work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

Evidence sighted:

No refracting / redrilling has occurred under this consent.

Compliance status:

Not applicable.

Operational Environmental Management Plan (OEMP)

21. The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to provide environmental management practices and procedures to be followed during the operation of the development. The OEMP shall be forwarded to the Director-General for approval within one month of the date of this consent. The OEMP shall include, but not necessarily be limited to:
- (a) identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
 - (b) a description of the roles and responsibilities for all key personnel involved in the operation of the development;
 - (c) the overall environmental policies and principles to be applied to the operation of the development;
 - (d) standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved; and
 - (e) management policies to ensure that environmental performance goals are met and to comply with conditions of this consent.

Evidence sighted:

Pre-audit period.

22. The Applicant shall supply a copy of the OEMP to Campbelltown City Council and Wollondilly Shire Council within fourteen days of the Director-General's approval. The Applicant shall ensure that a copy of the OEMP is publicly available.

Evidence sighted:

Pre-audit period.

23. The Applicant shall review and update the OEMP annually, or as directed by the Director-General

Evidence sighted:

The EHSMPs are to be replaced shortly by the new EMS and sub-plans. Prior to this a review of the EHSMPs was undertaken in October 2007, during which the additional compressors at RPGP were included. A review was also undertaken in May 2006.

Compliance status:

Non-compliant.

Recommendation.

As recommended in the previous audit, develop a schedule to ensure the EMS (formerly EHSMPs) is updated annually.

Annual Environmental Performance Reporting

24. The Applicant shall include the operation of MT1 -MT 10 inclusive, MP13 -MP17 and MP30, inclusive and the associated gas gathering system and the conditions of this consent, in the Annual Environmental Performance Report required under Schedule 5 Condition 5 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

These areas are included in the AEPR 2006 – 2007 and draft AEPR 2007 – 2008 (submitted after the audit).

Compliance status:

Compliant.

Independent Environmental Audit

25. The Applicant shall include the operation of MT1 -MT 10 inclusive, MP13 -MP17 inclusive and MP30, and

the associated gas gathering system, and the conditions of this consent, in the Independent Environmental Audit required under Schedule 5 Condition 8 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted: These areas are included in this audit.
Compliance status: Compliant.

Development Consent

Section 80 of the *Environmental Planning & Assessment Act 1979*

I, the Minister for Infrastructure and Planning, under Section 80 of the *Environmental Planning and Assessment Act 1979*, determine the development application ("the Application") referred to in Schedule 1 by granting consent subject to the conditions set out in Schedule 2 (DA-9-1-2005).

The reason for these conditions is to:

- Prevent and minimise any adverse environmental impacts associated with the development; and
- Provide for the on-going environmental management of the development.

Craig Knowles MP
Minister for Infrastructure and Planning

Sydney, 26 May 2005

File No. S02/0229

SCHEDULE 1

Development Application:	DA 9-1-2005
Applicant:	Sydney Gas Operations Pty Limited
Consent Authority:	Minister for Infrastructure and Planning
Land:	Lot 501/ DP 869561 (Wells GL2, GL4, GL11, GL12 and GL13) and gas gathering system) Lot 1061/ DP 8013607 (Well GL6 and gas gathering system) Lot 1/ DP 1067320 (Wells EM-1V and EM-1H and gas gathering system) Lot 54 / DP 864754 (gas gathering system) Lot 1101 / DP 883495 (gas gathering system)
Proposed Development:	The Project includes: <ul style="list-style-type: none">• Construction and drilling of well GL11;• Construction of a gas gathering system between four wells at Glenlee and two wells at EMAI;• Connection of 6 coal seam methane wells to the previously approved Stage 2 Camden Gas Project – Gas Treatment Plant, for the production of methane gas;• Construction, drilling and operation of a directional well from each of GL02 and GL11; and• Upgrading (twinning) of the gas gathering line between GL02 and GL05.
State Significant Development:	The proposed development is State significant development by virtue of a Declaration made by the Minister for Infrastructure and Planning on 4 January 2005 under Section 76A of the <i>Environmental Planning and Assessment Act 1979</i> .
Integrated Development:	The proposal is not integrated development.

Notes:

*To find out when this consent becomes effective, see Section 83 of the Act;
To find out when this consent is liable to lapse, see Section 95 of the Act; and
To find out about appeal rights, see Section 97 of the Act.*

SCHEDULE 2

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:

No significant issues were identified from surface observations at the time of the site visit.

Terms of Approval

2. The Applicant shall carry out the development generally in accordance with the:
 - (a) DA submitted to the Department on 4 January 2005;
 - (b) "Statement of Environmental Effects – Elizabeth Macarthur Agricultural Institute Horizontal Drilling Project" Sydney Gas Company dated July 2002;
 - (c) "Statement of Environmental Effects – Glenlee Drilling Project Drilling Operations" Sydney Gas Company dated September 2002
 - (d) Letter from Sydney Gas Operations Pty Ltd to the Department dated 13 May 2005, modifying the application to relocate well GL3;
 - (e) The modification application submitted to the Department on 11 April 2006 and the accompanying document "Camden Gas Project Joint Venture Proposed Multiple Gas Well Modifications" prepared by AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd, dated April 2006;
 - (f) Modification Application MOD 28-3-2007 and "Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007; and
 - (g) Conditions of this consent.

If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:

The development is reportedly being undertaken in accordance with the above.

Compliance status:

Compliant.

3. This approval is for a period of twenty one (21) years from the granting of the production lease.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

4. The Applicant shall not commence the construction of well GL11 until the Director-General has approved the Drilling and Fracing Management Plan required under condition 37.

Evidence sighted:

Pre-audit period.

5. The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) (a) Any reports, plans or correspondence that are submitted in accordance with this consent; and
 - (b) (b) The implementation of any actions or measures contained in these reports, plans or correspondence.

Evidence sighted:

Requirements are reportedly implemented.

Compliance status:

Compliant.

6. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 8 wells for gas production).

Evidence sighted:

Noted.

Compliance status:

Compliant.

7. The Applicant shall provide Camden Council and Wollondilly Shire Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well sites and gas gathering systems within their respective Local Government Area, in a format suitable to each of these Councils, within two

months of the completion of the gas wells and gas gathering system.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under this DA are also not available.

Compliance status:

Non-compliant.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

8. The Applicant shall provide Camden Council and Wollondilly Shire Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The wellhead configurations for new wells under this DA are also not available.

Compliance status:

Non-compliant.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

9. The Applicant shall provide written notification to the Director-General that it has fulfilled the requirements of Conditions 7 and 8, within two weeks of the information being provided to the Councils.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under this DA are also not available.

Compliance status:

Non-compliant.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

10. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:
- (a) signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
 - (b) trenches are to be restored and reseeded with local grass seeds on completion of the work;
 - (c) local council traffic guidelines in respect of work carried out on road verges and underneath roads shall be implemented;
 - (d) the Applicant shall construct the gas gathering system so as not to impeach lateral water flows;
 - (e) the Applicant shall ensure that no crown or camber remains along the gas gathering systems, following construction;
 - (f) the pipeline shall be designed, constructed and operated in accordance with the Australian Standard for the installation and maintenance of Plastic Pipe Systems for Gas AS 3723-1989 (or its latest version); and
 - (g) the Department shall be notified on the completion of any trenching works.

Evidence sighted:

The procedure for construction of the gas gathering lines is adequately described in the relevant EHSMP. The auditor viewed correspondence from AGL informing the DPI of the twinning of the gas gathering line.

Compliance status:

Compliant.

11. Should the Spring Farm Master Plan for the Spring Farm urban release area, and development of the Garden Gates subdivision in Mt Annan South, identify the need to relocate any gas gathering lines the subject of this consent to ensure an efficient and environmentally sustainable urban outcome, that infrastructure shall be relocated by, and at the cost of the Applicant to the satisfaction of the Director-General, following consultation with Camden Council and Landcom.

Evidence sighted:

Not applicable to date.

Compliance status:

Not applicable.

Hours of Operation

12. The Applicant may conduct construction activities on land owned by Waste Service NSW, during the following hours:

Monday to Friday 7.00 am to 6.00 pm;

Saturday and Sunday 7.00 am to 6.00 pm. (Excluding Public Holidays)

Evidence sighted:

These hours were reported to have been complied with during construction activities.

Compliance status:

Compliant.

13. For development carried out on land not owned by Waste Service NSW, the Applicant is restricted to the following hours of construction:

Monday to Friday 7.00 am to 6.00 pm;
Saturday 8.00 am to 1.00 pm. (Excluding Public Holidays)

Evidence sighted:

These hours were reported to have been complied with during construction activities.

Compliance status:

Compliant.

Environmental Management

14. The Applicant shall obtain a Part 3A Permit prior to the commencement of construction of any crossing of a stream by the gas gathering line.

Evidence sighted:

No Part 3A Permit was required under this DA.

Compliance status:

Compliant.

15. Except as may be expressly provided for by a licence under the Protection of the Environment Operations Act 1997 in relation to the development, the Applicant shall comply with section 120 of the Protection of the Environment Operations Act 1997, in carrying out this development.

Note: Section 120 of the *Protection of the Environment Operations Act 1997* applies to the disposal of washwater.

Evidence sighted:

All sites are constructed in accordance with site specific, approved Soil and Water Management Plans. A generic SWMP is being developed as part of the new EMS.

No issues regarding management of run-off were observed around well-sites during the site inspection.

Compliance status:

Compliant.

16. The Applicant shall implement all practicable measures to minimise soil erosion and the discharge of sediments and water pollutants from the site.

Evidence sighted:

A number of measures to minimise soil erosion were observed during the site visit, including the use of sediment fences and the minimisation of access areas.

Compliance status:

Compliant.

17. The Applicant shall implement all relevant site drainage and sediment and erosion control works and measures prior to the commencement of any other works at the site.

Evidence sighted:

Sediment and erosion controls are put in place prior to drilling works taking place. A 'Drilling Operations Compliance Checklist' is completed for each well at each stage of well development. The checklist includes checking that sediment and erosion controls are installed and were observed to have been completed on each checklist for each well.

Compliance status:

Compliant.

18. The Applicant shall ensure that the gas gathering system connecting well site EM 1H shall be constructed outside the breeding seasons of raptor species.

Evidence sighted:

Pre-audit period

19. The Applicant shall undertake the development in a way that minimises the noise generated by the

development.

Evidence sighted:

It was reported that the development at Glenlee was not subject to noise issues. No noise complaints regarding the Glenlee development have been received.

Compliance status:

Compliant.

20. The Applicant is required to prepare and implement a Flood Management Plan for the well within the floodplain for the life of the development. The Flood Management Plan will include (and not be limited to) measures to minimise and mitigate flooding impacts. The Applicant shall submit the Flood Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

Pre-audit period.

21. The Applicant shall ensure that the route of the gas gathering system follows previously or currently disturbed areas wherever possible.

Evidence sighted:

This is reported to be the case for ease of construction.

Compliance status:

Compliant.

22. The Applicant shall ensure that trenches constructed during the construction of gas gathering lines are not left open overnight unless otherwise agreed by the Director-General.

Evidence sighted:

It is a requirement of the EHSMP that trenches built for installing gas gathering lines are not left open overnight. No trenches were left overnight during this audit period.

Compliance status:

Compliant.

- 22A. The Applicant shall ensure that during the upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited to the following:

- a) The recommendations outlined in Sections 6 and 7 of the Ecosearch Environmental Consultants Pty Ltd report titled "Flora and fauna Assessment, AGL Gas Well and Gathering Line Project Modifications"; and
- b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

Evidence sighted:

No threatened species were reportedly impacted by the drilling and construction works and the upgrading of the gas gathering line under this consent.

Compliance status:

Compliant.

23. The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.

Evidence sighted:

No mature trees have reportedly been removed.

Compliance status:

Compliant.

24. The Applicant shall implement best practice flora and fauna management.

Evidence sighted:

Most construction took place pre-audit period. 98% of well sites have been located in paddocks to minimise impacts to flora and fauna.

Compliance Status:

Compliant.

25. The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the proposed development.

Evidence sighted:

Pre-audit period.

26. The Applicant shall provide landscaping around the well heads using appropriate native species.

Evidence sighted:

The well heads subject to this consent have been rehabilitated in consultation with and to the satisfaction of the landowner, using pasture seed (a sterile exotic seed mix). This is consistent with the area as all well heads under this consent are in open paddocks / grazing land.

Compliance status:

Non-compliant.

Recommendation:

AGL to consult with the DoP as to the reason for requiring native species, with a view to having the requirement removed.

27. The Applicant shall employ a suitably qualified ecologist with specific experience in identifying the Cumberland Plain Snail, during the construction period of the development. The ecologist shall monitor and examine areas for the presence of the threatened Cumberland Plain Snail, during the clearing for the development.

Evidence sighted:

Pre-audit period.

28. The Applicant shall prepare a translocation strategy for the threatened Cumberland Plain Snail, which will be submitted for the Director-General's approval prior to construction. The translocation strategy shall be implemented should any individuals or populations of the Cumberland Plain Snail be identified.

Evidence sighted:

Pre-audit period.

29. The Applicant is required to prepare and implement a Weed Management Plan for the sites for the life of the development. The Applicant shall submit the Weed Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

Pre-audit period.

30. Prior to the commencement of site preparation works for the gas gathering system, the Applicant shall clearly mark the locations of known Aboriginal relics on the site (using flags, fencing or other appropriate method) and ensure that all employees and contractors are aware of these locations, to prevent the known relics being impacted or disturbed during site preparation and construction.

Evidence sighted:

Pre-audit period.

31. The Applicant shall relocate the section of the gas gathering line east of the Aboriginal relic identified as Clutha 1, to ensure that this the relic is not harmed from installation of the gas gathering line. Details of the relocation of the line shall be submitted to the Director-General for approval.

Evidence sighted:

Pre-audit period.

Safety and Risk Management

32. The Applicant shall develop and implement an Emergency Plan and Safety Management System for the development. The plan/system shall be submitted for the approval of the Director-General, at least one month prior to the commissioning of the development, or within such further period as the Director-General may agree. Commissioning shall not commence until the Director-General has approved the plan/system.

(a) Emergency Plan

A comprehensive emergency plan and detailed emergency procedures for the development shall be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, "Industry Emergency Planning Guidelines". The plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the development.

(b) Safety Management System

A document setting out a comprehensive safety management system, covering all operations on the gas wells and gathering system shall be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, "Safety Management". The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on-site and shall be made available for inspection by the Director-General upon request. In particular records shall be maintained to demonstrate that management of change procedures were followed for the connection of the new gas lines to the existing network and for the integration of the new wells into the automatic control system.

Note: The Applicant may update the current approved version of the relevant study/plan/system prepared to comply with Schedule 4 Condition 92 of development consent DA-282-6-2003-i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Evidence sighted:

Pre-audit period.

Compliance Report

33. Three months after commencement of operation of the development, the Applicant shall submit to the Director-General a compliance report detailing compliance with Condition 32, including:
- (a) dates of study/plan/system completion/submission and commencement of construction and commissioning;
 - (b) actions taken or proposed, to implement recommendations made in the studies/plans/systems; and
 - (c) responses to any requirement imposed by the Director-General under Condition 35.

This report shall verify that:

- (a) The Emergency Plan required under Condition 32(a) is effectively in place and that at least one emergency exercise has been conducted; and
- (b) The Safety Management System required under Condition 32(b) has been fully implemented and that records required by the system are being kept.

The report shall include a signed commitment by the Applicant's representative responsible for the operation of the development, that for each study/plan/system:

- (a) The required study/plan/system has been undertaken or prepared to the relevant Hazardous Industry Planning Advisory Panel;
- (b) All recommendations of each study/plan/system have been implemented; and
- (c) All safety management system and their associated risk controls have been implemented and are being maintained.

Evidence sighted:

Pre-audit period.

Hazard Audit

34. Twelve months after the commencement of operations of the proposed development or within such further period as the Director-General may agree, the Applicant shall carry out a comprehensive hazard audit of the development and within one month of the audit submit a report to the Director-General.

The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Director-General prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Director-General and a report of each audit shall, within one month of the audit, be submitted to the Director-General. Hazard audits shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines".

Note: The Applicant may include the three yearly hazard audit of the development with the Hazard Audit required under Schedule 4 Condition 95 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The last hazard audit was undertaken in 2006, pre-audit period. The next hazard audit is due in 2009.

Compliance Status:

Not applicable.

35. The Applicant shall comply with all reasonable requirements of the Director-General in respect of the implementation of any measures arising from recommendations of the studies or reports referred to in Conditions 32 to 34 inclusive, within such time as the Director-General may agree.

Evidence sighted:

Refer to DA 282-6-2003i.

Drilling and Fracing Management Plan

Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

36. The Applicant shall obtain the prior approval of the Director-General for the drilling, redrilling and/or additional fraccing of a gas well.

Evidence sighted:

No additional drilling, redrilling and/or additional fraccing was undertaken during the reporting period.

Compliance status:

Not applicable.

37. The Applicant shall prepare a Drilling and Fraccing Management Plan in consultation with the Department of Primary Industries for the drilling of a well, or redrilling and/or refraccing of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. The Plan shall include, but not necessarily be limited to:

- (a) a description of all the activities to be undertaken on the well site during the drilling, redrilling and/or refraccing work;
- (b) details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;
- (c) reference to the relevant parts of the Environmental Management Plan required under condition 41;
- (d) compliance with all the relevant environmental performance requirements of this consent; and
- (e) arrangements for complaints handling procedures during the drilling, redrilling and/or refraccing work.

Evidence sighted:

The EHSMPs incorporated this requirement and were approved.

Compliance status:

Compliant.

38. The Applicant shall give written notification of the proposed drilling, redrilling and/or refraccing work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

Evidence sighted:

No residences were reported to have been affected by the development.

Compliance status:

Not applicable.

Construction Environmental Management Plan (CEMP)

39. The Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) to provide environmental management, practices and procedures to be followed during the construction phases of the proposed development. A framework plan outlining key practices, procedures and environmental management practices should be approved by the Director-General prior to the commencement of construction.

Evidence sighted:

Pre-audit period.

40. The Applicant shall consult with the EMAI in the preparation of the CEMP. The CEMP shall identify measures to minimise the impact of construction of the gas gathering system and any related activities, within and adjacent to the Raptor Breeding zones on the EMAI site.

Note: The Applicant may update the current approved version of the CEMP prepared to comply with Schedule 5 Condition 1 of development consent DA-282-6-2003-i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Evidence sighted:

Pre-audit period.

Operational Environmental Management Plan (OEMP)

41. The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to provide environmental management practices and procedures to be followed during the operation of the development. The OEMP shall be forwarded to the Director-General for approval within one month of the date of this consent. The OEMP shall include, but not necessarily be limited to:
- (a) identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
 - (b) a description of the roles and responsibilities for all key personnel involved in the operation of the

- development;
- (c) the overall environmental policies and principles to be applied to the operation of the development;
- (d) standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved; and
- (e) management policies to ensure that environmental performance goals are met and to comply with conditions of this consent.

Note: The Applicant may update the current approved version of the OEMP prepared to comply with Schedule 5 Condition 2 of development consent DA-282-6-2003-i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Evidence sighted:

Pre-audit period.

Annual Environmental Performance Reporting

42. The Applicant shall include the operation of wells GL2 – 4 inclusive, GL 6, EMAI-1H and EMAI-1V and the associated gas gathering system and the conditions of this consent, in the Annual Environmental Performance Report required under Schedule 5 Condition 5 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The above wells are included in the AEPRs.

Independent Environmental Audit – Construction at EMAI

43. The Applicant shall commission and pay the full costs of an Independent Environmental Audit of the construction of the gas gathering system, construction of the access roads and drilling and fracing of gas wells on the EMAI. The objective of the audit is to monitor the performance and effect of construction activities on the EMAI. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General; and
 - (b) be consistent with ISO 19011:2002 -Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals.

The Audit shall:

- (a) assess the environmental performance of the construction of the development on EMAI, and its effects on the surrounding environment;
- (b) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (c) consider the Applicant's proposed Construction Environmental Management Plan for the EMAI Site; and
- (d) recommend measures or actions to improve the environmental performance of the construction of the development on EMAI, and/or its environmental management and monitoring systems (if required).

Evidence sighted:

Pre-audit period.

Within one month of completion of the audit, the Applicant must submit a copy of the audit report to the Director-General, the NSW Heritage Office and Department of Primary Industries-Agriculture. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the NSW Heritage Office and Department of Primary Industries-Agriculture. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Note: The Applicant may include the construction of the development on the EMAI in the audit prepared to comply with Schedule 5 Condition 8 of development consent DA-282-6-2003-i, dated 16 June 2004.

Independent Environmental Audit – Operation

44. The Applicant shall include the operation of wells GL2 – 4 inclusive, GL 6, EMAI-1H and EMAI-1V and the associated gas gathering system, and the conditions of this consent, in the Independent Environmental Audit required under Schedule 5 Condition 10 of development consent DA-282-6-2003i, dated 16 June 2004.

Evidence sighted:

The above wells are included in this audit.

Development Consent

Section 80 of the Environmental Planning & Assessment Act 1979

I, the Minister for Planning, under Section 80 of the Environmental Planning and Assessment Act 1979, determine the development application ("the Application") referred to in Schedule 1 by granting consent subject to the conditions set out in Schedule 2 (DA-75-4-2005).

The reason for these conditions is to:

- Prevent and minimise any adverse environmental impacts associated with the construction and operation of the development; and
- Provide for the on-going environmental management of the development.

Frank Sartor MP
Minister for Planning

Sydney,

2005

File No. S02/02299

SCHEDULE 1

Development Application:

DA 75-4-2005

Applicant:

Sydney Gas (Camden) Operations Pty Ltd

Consent Authority:

Minister for Planning

Land:

Lot 2 DP 842735 (Wells SL1, SL2, SL3, SL5, SL08 and SL09, gas gathering system and access roads)
Lot 3 DP 1007066 (Wells SL4, SL6, SL7, gas gathering system and access roads)
Lot 2 DP 717439 (gas gathering system and access roads)
Lot 3 DP 622362 (gas gathering system)
Lot 58 DP 632328 (gas gathering system)
Lot 200 DP 1046336 (access roads)

Proposed Development:

The Project includes:

- Construction and drilling of 9 wells, including 2 surface to in-seam wells (SL08 and SL09) at SL03;
- Construction and drilling of 7 wells;
- Construction of a gas gathering system and access roads;
- Connection of the wells to the Stage 2 Camden Gas Project – Gas Treatment Plant; and
- Production of methane gas.

State Significant Development:

The proposed development is State significant development by virtue of a Declaration made by the Minister for Infrastructure and Planning on 4 January 2005 under Section 76A of the Environmental Planning and Assessment Act 1979.

Integrated Development:

The proposal is classified as integrated development under Section 91 of the Environmental Planning and Assessment Act 1979, as it requires additional approvals under the:

- *Heritage Act 1977*;
- *National Parks and Wildlife Act 1974*;
- *Protection of the Environment Operations Act 1997*; and
- *Rivers and Foreshores Improvement Act 1948*.

Notes:

- *To find out when this consent becomes effective, see Section 83 of the Act;*

- To find out when this consent is liable to lapse, see Section 95 of the Act; and
- To find out about appeal rights, see Section 97 of the Act.

SCHEDULE 2

DEFINITIONS

Council	Campbelltown City Council
Department	Department of Infrastructure, Planning, or delegate
DECC	Department of Environment and Climate Change
SIS	Surface to in seam
Site	Land to which the Development Application applies

ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

1. The Applicant shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the development.

Evidence sighted:

At the time of the site visit only two of the wells covered by this DA had been drilled and fraced (SL02 and SL03) and one well SL09 had been drilled but not completed. Some gas gathering lines have been installed in the area, although the network is not operational yet.

No significant environmental harm from these construction works was observed, at the time of the site visit.

Compliance status:

Compliant.

Terms of Approval

2. The Applicant shall carry out the development generally in accordance with the:
 - (a) Development Application submitted to the Department on 18 April 2005;
 - (b) "Statement of Environmental Effects – Camden Gas Project, Sugarloaf Farm Drilling Program, PPL4" Sydney Gas (Camden) Operations Pty Ltd, dated March 2005;
 - (c) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department dated, 15 May 2005, amending the application to include the link between SL6 and RP3;
 - (d) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department, dated 20 May 2005, amending the application to relocate SL5;
 - (e) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department, dated 30 May 2005, providing a response to general public submissions;
 - (f) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department, dated 17 June 2005,, about the access roads;
 - (g) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department of Environment and Conservation, dated 10 June 2005, about Aboriginal heritage issues;
 - (h) Letter from Sydney Gas (Camden) Operations Pty Ltd to the Department, dated 11 July 2005, showing the updated plan of Aboriginal and archaeological assessment areas;
 - (i) Modification Application MOD 29-3-2007 and a "Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007; and
 - (j) Conditions of this consent.

If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:

The development to date has reportedly been undertaken in accordance with the above requirements.

Compliance status:

Compliant.

3. The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) Any reports, plans or correspondence that are submitted in accordance with this consent; and
 - (b) The implementation of any actions or measures contained in these reports, plans or correspondence.

Evidence sighted:

Requirements are reportedly implemented.

Compliance status:

Compliant.

Limits on Approval

4. This approval shall lapse within 21 years of the date of this consent or on the expiry date of Petroleum Production Lease No. 4, whichever is the shorter period.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

5. Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 9 wells for gas production).

Evidence sighted:

Noted.

Compliance status:

Compliant.

6. If after five years of the date of this consent any well that is the subject of this consent has not yet been drilled or completed, then the Applicant shall surrender the approval for that well.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

7. The access road near SL7 shall only be used in an emergency.

Evidence sighted:

SL07 had not been drilled at the time of this audit.

Compliance status:

Not applicable.

Administration

8. Construction shall not commence until the Applicant has obtained a Part 3A Permit under the Rivers and Foreshores Improvement Act 1948, a Licence from the DECC under the Protection of the Environment Operations Act 1997, and an approval under section 60 of the Heritage Act 1977 from the NSW Heritage Council.

Note: The Rivers and Foreshore Improvement Act 1948 applies to the proposed development and therefore any excavation removal of material from the bank shore or bed of any stream estuary or lake or land within 40 metres from the top of the bank will require a Part 3A Permit.

Evidence sighted:

The last audit noted that a 3A permit had been obtained for SL05, however this had expired. SL05 has still not been constructed.

Compliance status:

Compliant – however, the 3A permit will require renewal prior to work within 40m from the top of a bank.

9. An application must be made to the DECC under section 90 of the National Parks and Wildlife Act 1974 for approval to destroy the known objects at Sugarloaf Farm Site 1 (Locale 5) and Sugarloaf Farm Site 5.

Evidence sighted:

A section 90 certificate has been issued and an artefact collected (pre-audit period).

Compliance status:

Compliant.

10. The Applicant must, in the opinion of the DECC, be a fit and proper person to hold a Licence under the Protection of the Environment Operations Act 1997, having regard to the matters in section 83 of that Act.

Evidence sighted:

AGL Energy Limited (AGL) is considered to be a 'fit and proper person' (ABN 95 052 167 405) and holds an Environment Protection Licence (No.12003) for the Camden Gas Project Stage 2.

Compliance status:

Compliant.

11. The premises for the purposes of the Licence under the Protection of the Environment Operations Act 1997, includes the gas gathering system, access roads and gas wells and any associated effluent storages, temporary work areas and infrastructure associated with the gas gathering systems, access roads and gas wells.

Evidence sighted:

Noted.

Compliance status:

Compliant.

12. The premises also applies to the gas well heads consisting of the area bounded by the fenced enclosure during gas well operation. During well establishment, the premises have a nominal area of 100 metres X 70 metres and is surrounded by fencing. At various times during well head maintenance, the premises at the gas well head comprises an area of dimensions 25 metres X 25 metres.

Evidence sighted:

Noted.

Compliance status:

Compliant.

13. The Applicant must provide Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for the gas well sites and gas gathering system in a format suitable to the Council, within two months of the completion of the gas wells and gas gathering system.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under this DA are also not available.

Compliance status:

Non-compliant.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

14. The Applicant shall provide Council with the wellhead configurations of each gas well within two months of the gas well being completed or two months from the date of this consent, whichever is the later.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The wellhead configurations for new wells under this DA are also not available.

Compliance status:

Indeterminate.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

15. The Applicant shall provide written notification to the Director-General that it has fulfilled the requirements of Conditions 13 and 14, within two weeks of the information being provided to the Council.

Evidence sighted:

This was reportedly carried out by Sydney Gas prior to AGL taking over the CGP. However, the records of correspondence have since been lost. The GPS coordinates for new wells under this DA are also not available.

Compliance status:

Indeterminate.

Recommended action:

Ensure compliance with this CoC for any new wells. Maintain records so they can be verified during the next audit.

ENVIRONMENTAL PERFORMANCE CONDITIONS

Activities Must be Carried out in a Competent Manner

16. The development must be carried out in a competent manner. This includes:

- The processing, handling, movement and storage of materials and substances used to carry out the activity; and
- The treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

Evidence sighted:

No issues regarding the storage and handling of chemicals and substances or waste management were observed during the site visit.

Compliance status:

Compliant.

Maintenance of Plant and Equipment

17. All plant and equipment installed at the premises or used in connection with the development must be maintained and operated in a proper and efficient condition.

Evidence sighted:

No equipment associated with environmental performance is associated with the three installed wells.

Compliance status:

Not applicable.

Noise Limits

18. Noise from the operation of the development shall not exceed the sound pressure level (noise) limits presented in the Table below:

Location	Day	Evening	Night	
	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{A1} (1 minute)
Any residential premise	35	35	35	45

Notes

- The limits represent the sound pressure level (noise) contribution, at the nominated receiver locations in the table.
- Day is defined as the period from 7.00am to 6.00pm Monday to Saturday and 8.00am to 6.00pm Sundays and Public Holidays.
- Evening is defined as the period from 6.00pm to 10.00pm.
- Night is defined as the period from 10.00pm to 7.00am Monday to Saturday and 10.00pm to 8.00am Sundays and Public Holidays.
- Noise from the site is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary to determine compliance with the noise limits set out in the table.
- Noise from the premises is to be measured at 1 metre from the dwelling facade to determine compliance with the L_{A1} (1 minute) noise level in the table.
- Where it can be demonstrated that direct measurement of noise from the premises is impractical, the DECC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy).
- The modification factors presented in section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise level where applicable.
- The noise emission limits identified in the table apply under meteorological conditions of wind speed up to 3m/s at 10 metres above ground level, and temperature inversion conditions.

Evidence sighted:

Although production testing is taking place at two of the wells (SL08 and SL09) none of the wells are in operation.

Compliance status:

Not applicable.

18A. Noise from the drilling and construction of SL08 and SL09 shall not exceed the sound pressure level (noise) limits in the table below:

Receiver Location	Weekday (7.00am-6.00pm) Saturday (7.00am-1.00pm)	Saturday (1.00pm-6.00pm) Sunday (7.00am-6.00pm)	Evening (6.00pm-10.00pm)	Night (10.00pm-7.00am)
Nearest Receiver	54	44	47	41

Evidence sighted:

SL08 has not yet been drilled. Noise monitoring data from SL09 indicates that drilling noise is compliant with the above criteria and is often inaudible at nearby sensitive receptors due to the noise of the highway.

Compliance status:

Compliant.

19. The Applicant shall prepare and implement a Construction Noise Management Protocol for construction of the development. The Protocol shall be submitted for the approval of the DECC and the Director-General at least one week prior to commencement of construction. The Protocol must include but is not limited to:

- (a) Compliance with the noise criteria in Condition 18A during all construction activities, when assessed at sensitive locations including residences and schools;
- (b) Details of the proposed drill rig focussing on the noise emission characteristics for all phases of well establishment, including percussion drilling, setting and casing, and fracturing;
- (c) Identification of sensitive receivers likely to be impacted by noise levels exceeding the noise goal in (a) above;
- (d) Details of proposed best practice mitigation measures to seek achieve the noise goal in (a) above;
- (e) The consideration of best practice mitigation required in (d) above must include but is not necessarily limited to optimum orientation of drill rigs and temporary barriers;
- (f) Community consultation including advance notice of commencement of construction activities and site contact details;
- (g) A system to receive, document, respond, action and monitor complaints; and
- (h) Monitoring methods and program.

Evidence sighted:

Noise is included in the EHSMPs, however they do not satisfy all the elements list above. AGL is currently developing a separate Noise Management Sub-Plan to go in the new EMS.

Compliance status:

Non-compliant.

Recommendation:

Continue to develop the EMS and sub plans including the Noise Management Plan. Ensure that the above requirements are included in the Noise Management Plan.

20. At least one month prior to operation of the development the Applicant shall prepare and submit for the Director-General's approval, a Well Gathering System and Trunk Line Maintenance Noise Management Protocol to be used for the premises for the life of the consent. The Protocol shall include but is not limited to:

- (a) A primary objective of attaining the noise limits in condition 18;
- (b) Community consultation;
- (c) Advance notice to affected members of the community for planned well maintenance activities;
- (d) Complaints handling monitoring system;
- (e) Mitigation measures;
- (f) The design/orientation of the proposed mitigation methods demonstrating best practice;
- (g) Construction times;
- (h) Contingency measures where noise complaints are received; and
- (i) Monitoring methods and programs.

Evidence sighted:

Not applicable to date. Also note that there is no trunk line proposed.

Compliance status:

Not applicable.

Hours of Operation

21. All construction works (except for the drilling (including well casing and grouting) of SIS wells) must be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays and at no time on Sundays and Public Holidays, unless inaudible at any residential premises.

Evidence sighted:

The only well that has been drilled within this audit period is SIS well SL09.

Compliance status:

Not applicable.

22. Planned maintenance activities at any of the wells must only be conducted between:

- (a) 7.00 am to 6.00 pm on weekdays; and
- (b) 8.00am and 1.00pm on Saturdays (excluding Public Holidays)

Note: This condition does not apply to the delivery of material outside the hours of operation under condition 21 if that delivery is required by police or other authorities for safety reasons; and /or the operation or personnel or equipment are endangered. In such circumstances prior notification is to be provided to the DECC and affected residents as soon as possible or within a reasonable period in the case of an emergency.

Air Quality

23. The Applicant shall carry out the development in a manner that will minimise emissions of dust from the site.

Evidence sighted:

The following measures are undertaken to minimise the emission of dust from the development:

- Use of a water cart on the unsealed access roads as required;
- Restriction on the height of topsoil stockpiles to two metres;
- Restrictions on speed limits. These are communicated in the site induction materials;
- Access is restricted to the access roads, gathering line easements and well head areas;
- Erosion and sediment controls are installed as per the SWMP.

No complaints of dust emissions have been received by AGL with regards to activities at the Development.

Compliance status:

Compliant.

Note: The Protection of the Environment Operations Act 1997 states that no offensive odour may be emitted from particular premises unless potentially offensive odours are identified in the Licence and the odours are emitted in accordance with conditions specifically directed at minimising the odours are permitted. Where it is appropriate for a Licence to identify and control odours conditions for the Licence should be developed in consultation with Air Policy.

Water

24. Except as may be expressly provided by a Licence, the Applicant shall comply with section 120 of the Protection of the Environment Operations Act 1997 during the carrying out of the development.

Evidence sighted:

All sites are constructed in accordance with site specific, approved Soil and Water Management Plans. A generic SWMP is being developed as part of the new EMS.

Compliance status:

Compliant.

Note: Section 120 of the Protection of the Environment Operations Act 1997 applies to the disposal of wastewater.

Stormwater/Sediment Control

25. At least one week prior to the commencement of construction, the Applicant shall submit for the approval of the Director-General, an Erosion and Sediment Control Plan. The Plan must be implemented and used for the duration of all construction activities associated with the development. The Plan must describe the measures that will be employed to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters during construction activities. The Plan should be prepared in accordance with the requirements for such plans outlined in the Landcom's Managing Urban Stormwater: Soils and Construction.

Evidence sighted:

SWMPs have been approved.

Compliance status:

Compliant.

Waste

26. 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.

Evidence sighted:

No waste is reportedly received by the site and none was observed during the site visit.

Compliance status:

Compliant.

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 *Protection of the Environment Operations Act 1997*.

27. 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".

Evidence sighted:

Drilling mud originating from SL09 was determined to be highly saline and classified as hazardous. URS has viewed the waste transfer documentation indicating that this was removed from the well site by Veolia in April 2008 and taken to Veolia's Unanderra facility.

Compliance status:

Compliant.

Safety and Risk Management

28. Prior to construction of the wellhead, the Applicant shall provide a Report to the Department from an independent and suitably qualified person approved by the Director-General, to confirm that the design and operation of the wellhead complies with the Department's Locational Guidelines - Development in the Vicinity of Operating Coal Seam Methane Wells (May 2004) for an Automatically Controlled Well (with Separator/Optional Pump). In particular, the Report shall confirm that all safety related systems required by the Guidelines have been included.

Evidence sighted:

Pre-audit period.

29. The Applicant shall develop and implement an Emergency Plan and Safety Management System for the development. The plan/system shall be submitted for the approval of the Director-General, at least one month prior to the commissioning of the development, or within such further period as the Director-General may agree. Commissioning shall not commence until the Director-General has approved the plan/system.

(a) Emergency Plan

A comprehensive emergency plan and detailed emergency procedures for the development shall be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, "Industry Emergency Planning Guidelines". The plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the development.

(b) Safety Management System

A document setting out a comprehensive safety management system, covering all operations on the gas wells and gathering system shall be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, "Safety Management". The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on-site and shall be made available for inspection by the Director-General and the independent auditor upon request. In particular records shall be maintained to demonstrate that management of change procedures were followed for the connection of the new gas lines to the existing network and for the integration of the new wells into the automatic control system.

Evidence sighted:

Pre-audit period.

Note: The Applicant may update the current approved version of the relevant study/plan/system prepared to comply with Schedule 4 Condition 92 of development consent DA-282-6-2003-i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Compliance Report

30. Three months after commencement of operation of the development, the Applicant shall submit to the Director-General a compliance report detailing compliance with Condition 29, including:
- (a) Dates of study/plan/system completion/submission and commencement of construction and commissioning;
 - (b) Actions taken or proposed, to implement recommendations made in the studies/plans/systems; and
 - (c) Responses to any requirement imposed by the Director-General under Condition 32.

This report shall verify that:

- (a) The Emergency Plan required under Condition 29(a) is effectively in place and that at least one emergency exercise has been conducted; and
- (b) The Safety Management System required under Condition 29(b) has been fully implemented and that records required by the system are being kept.

The report shall include a signed commitment by the Applicant's representative responsible for the operation of the development, that for each study/plan/system:

- (a) The required study/plan/system has been undertaken or prepared to the relevant Hazardous Industry Planning Advisory Paper;
- (b) All recommendations of each study/plan/system have been implemented; and
- (c) All safety management system and their associated risk controls have been implemented and are being maintained.

Evidence sighted:

Given that the development is not operational, this CoC is not applicable to date.

Compliance status:

Not applicable.

Hazard Audit

31. Twelve months after the commencement of operations of the proposed development or within such further period as the Director-General may agree, the Applicant shall carry out a comprehensive hazard audit of the development and within one month of the audit submit a report to the Director-General.

The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Director-General prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Director-General and a report of each audit shall, within one month of the audit, be submitted to the Director-General. Hazard audits shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines".

Note: The Applicant may include the three yearly hazard audit of the development with the Hazard Audit required under Schedule 4 Condition 95 of development consent DA 282 6 2003 i, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits.

Evidence sighted:

The 2006 hazard audit included the Sugarloaf well sites. Hazard audits are required every three years and the next is due in 2009.

Compliance status:

Compliant.

32. The Applicant shall comply with all reasonable requirements of the Director-General in respect of the implementation of any measures arising from recommendations of the studies or reports referred to in Conditions 28 to 31 inclusive, within such time as the Director-General may agree.

Evidence sighted:

No requirements are known to have been received.

Compliance status:

Not applicable.

Redrilling and Fracing Management Plan

Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.

33. The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracing of a gas well.

Evidence sighted:

No redrilling or refracing has been undertaken under this development consent.

Compliance status:

Not applicable.

34. The Applicant shall prepare a Redrilling and Fracing Management Plan in consultation with the Department of Primary Industries for the redrilling and/or refracing of an existing well. The Plan shall be submitted to the Director-General no later than one month prior to the commencement of the work or within such period as agreed by the Director-General. The Plan shall include, but not necessarily be limited to:

- (a) A description of all the activities to be undertaken on the well site during the redrilling and/or refracing work;
- (b) Details of how the environmental performance of the work will be monitored and what actions will be taken to address identified adverse environmental impacts;
- (c) Reference to the relevant parts of the Environmental Management Plan required under condition 52;
- (d) Compliance with all the relevant environmental performance requirements of this consent; and
- (e) Arrangements for complaints handling procedures during the redrilling and/or refracing work.

Evidence sighted:

No redrilling or refracing has been undertaken under this development consent..

Compliance status:

Not applicable.

35. The Applicant shall give written notification of the proposed redrilling and/or refracing work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.

Evidence sighted:

No redrilling or refracing has been undertaken under this development consent

Compliance status:

Not applicable.

Gas Gathering System

36. The Applicant shall ensure that the route of the gas gathering system follows previously or currently disturbed areas wherever possible.

Evidence sighted:

Where gas gathering lines have been installed this has reportedly been the case for ease of construction.

Compliance status:

Not applicable.

37. The Applicant shall ensure that trenches constructed during the construction of gas gathering lines are not left open overnight unless otherwise agreed by the Director-General.

Evidence sighted:

It is a requirement of the EHSMP that trenches built for installing gas gathering lines are not left open overnight. No trenches were left overnight during this audit period.

Compliance status:

Not applicable.

38. The Applicant shall comply with the following in the construction of the gas gathering system pipeline:

- (a) Signs stating the presence of a buried gas pipeline shall be erected periodically along the length of the trench once the pipeline has been laid;
- (b) Trenches are to be restored and reseeded with local grass seeds on completion of the work;
- (c) Construct the gas gathering system so as not to impeach lateral water flows;

- (d) Ensure that no crown or camber remains along the gas gathering systems, following construction;
- (e) Design, construct and operate the pipeline in accordance with the Australian Standard for the installation and maintenance of Plastic Pipe Systems for Gas AS 3723-1989 (or its latest version); and
- (f) Notify the Department on the completion of any trenching works.

Evidence sighted:

The EHSMP for the gas gathering lines contains the requirements to comply with this CoC.

- (a) Signs indicating the presence of buried pipeline have been erected and were observed during the site visit;
- (b) Trenches are narrow (maximum 1m wide) and seeding is not reported to be generally required;
- (c) These areas are managed through the Part 3A permit system;
- (d) Crown and camber are removed following construction;
- (e) This is reportedly undertaken; and
- (f) The Project Manager for the gas gathering lines is responsible for notifying the Department upon completion of the trenching works.

Compliance status:

Not applicable.

Flora and Fauna

39. The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the development.

Evidence sighted:

The approved EHSMP covers flora and fauna management.

Compliance status:

Compliant.

40. The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.

Evidence sighted:

No mature trees have reportedly been removed as part of this development.

Compliance status:

Compliant.

41. The Applicant shall prepare a translocation strategy for the threatened Cumberland Plain Snail, which will be submitted for the Director-General's approval prior to construction. The translocation strategy shall be implemented should any individuals or populations of the Cumberland Plain Snail be identified.

Evidence sighted:

No snails were identified in the area covered by this development.

Compliance status:

Not applicable.

42. The Applicant shall prepare and implement a Weed Management Plan for the site for the life of the development. The Applicant shall submit the Weed Management Plan for the Director-General's approval within one month of the date of this consent.

Evidence sighted:

The approved EHSMP covers weed management.

Compliance status:

Compliant.

42A. The Applicant shall ensure that during the upgrading of the gas gathering lines, impacts on threatened species are minimised by implementing actions including, but not limited to the following:

- a) The recommendations outlined in Sections 6 and 7 of the Ecosearch Environmental Consultants Pty Ltd report titled "Flora and fauna Assessment, AGL Gas Well and Gathering Line Project Modifications"; and
- b) Marking the boundaries of endangered ecological communities (EECs) and locations of other known threatened species and, where possible, avoiding construction activities within these areas.

Evidence sighted:

No threatened species were reportedly impacted by the drilling and construction works and the upgrading of the gas gathering line under this consent.

Compliance status:

Compliant.

Bushfire Management

43. The Applicant shall:

- (a) Ensure that the development is suitably equipped to respond to any fires on the site; and
- (b) Assist the Rural Fire Service and emergency services as much as possible if there is a fire on the site.

Evidence sighted:

AGL has its own water truck and standpipes and maintain water within sedimentation ponds. Equipment at wells can be shut down remotely.

Compliance status:

Compliant.

44. Prior to operation the Applicant shall prepare a Bushfire Management Plan for the development, to the satisfaction of the Director-General. The Applicant shall consult with Council and the Rural Fire Service in the preparation of the Plan.

Evidence sighted:

The requirement for a Bushfire Management Plan has been incorporated into the EHSMPs for the Development.

Compliance status:

Not applicable.

Note: The Applicant may update the current approved version of the Bushfire Management Plan prepared to comply with Schedule 4 Condition 110 of development consent DA 282 6 2003 i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related gas gathering system

Heritage

45. The Applicant must ensure that should any historical relics be uncovered, excavation or disturbance of the area is to stop immediately and the Heritage Council of NSW is notified within a reasonable time of the discovery or location of these relics. Archaeological assessment and approval, or endorsement, may be required prior to works continuing in the affected area(s) based on the nature of the discovery.

Evidence sighted:

No relics have reportedly been identified. The requirement of this CoC is covered in EHSMPs

Compliance status:

Not applicable.

46. An Interpretation Study being prepared to the satisfaction of the Director, Heritage Office and executed by the Applicant within 6 months of the date of this approval.

Evidence sighted:

No approval is required under CoC 45.

Compliance status:

Not applicable.

Aboriginal Relics

47. The Applicant must ensure that should any Aboriginal objects be uncovered, excavation or disturbance of the area is to stop immediately and the DECC is to be informed in accordance with section 91 of the National Parks and Wildlife Act 1974.

Evidence sighted:

No objects have reportedly been identified. The requirement of this CoC is covered in EHSMPs

Compliance status:

Not applicable.

48. Prior to the commencement of construction, the Applicant shall clearly mark the locations of known Aboriginal relics on the site (using flags, fencing or other appropriate method) and ensure that all employees and contractors are aware of these locations, to prevent the known relics being impacted or disturbed during site preparation and construction.

Evidence sighted:

Not applicable at the wells drilled to date.

Compliance status:

Not applicable.

Sydney Water Supply Canal

49. The Applicant shall carry out the construction and operation of the development in a manner that will not adversely affect the structural integrity of the Upper Canal and associated structures nor impact the quality of water in the Upper Canal. The Applicant shall be responsible for ensuring that all persons involved in the development are informed of these requirements.

Evidence sighted:

The gas gathering line has not been constructed in this area yet.

Compliance status:

Not applicable.

50. The Applicant shall comply with the requirements in Sydney Water's Guidelines on Precautions to be taken when Building Over or Adjacent to Sydney Water's Assets.

Evidence sighted:

Not applicable to date.

Compliance status:

Not applicable.

ENVIRONMENTAL MANAGEMENT AND MONITORING**Construction Environmental Management Plan (CEMP)**

51. The Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) to provide environmental management, practices and procedures to be followed during the construction phases of the proposed development. A framework plan outlining key practices, procedures and environmental management practices should be approved by the Director-General prior to the commencement of construction.

Note: The Applicant may update the current approved version of the CEMP prepared to comply with Schedule 5 Condition 1 of development consent DA 282 6 2003 i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Evidence sighted:

Refer to approved EHSMP for drilling.

Compliance status:

Compliant.

Operational Environmental Management Plan (OEMP)

52. The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to provide environmental management practices and procedures to be followed during the operation of the development. The OEMP shall be forwarded to the Director-General for approval within one month of the date of this consent. The OEMP shall include, but not necessarily be limited to:

- (a) Identification of all statutory and other obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;
- (b) A description of the roles and responsibilities for all key personnel involved in the operation of the development;
- (c) The overall environmental policies and principles to be applied to the operation of the development;
- (d) Standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved; and
- (e) Management policies to ensure that environmental performance goals are met and to comply with conditions of this consent.

Note: The Applicant may update the current approved version of the OEMP prepared to comply with Schedule 5 Condition 2 of development consent DA 282 6 2003 i, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.

Evidence sighted:

Not applicable to date.

Compliance status:

Not applicable.

Annual Return

53. The Applicant shall provide an annual return to the DECC in relation to the development as required by any Licence under the Protection of the Environment Operations Act 1997 in relation to the development. In the return the Applicant must report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with Licence conditions and provide a calculation of licence fees (administrative fees and where relevant, load based fees) that are payable.

Evidence sighted:

Annual Returns have been submitted as required.

Compliance status:

Compliant.

Annual Environmental Performance Reporting

54. Within twelve months of the date of this consent, and annually thereafter during the life of the development, the Applicant shall submit an Annual Environmental Performance Report to the Director-General. This report shall include, but not be limited to:

- (a) The standards, performance measures and statutory requirements the development is required to comply with;
- (b) An assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
- (c) Copy of the Complaints Register for the preceding twelve month period and indicating what actions were (or are being) taken to address these complaints;
- (d) Indication of what actions were taken to address any issue and/or recommendation raised by the Camden Gas Project's Community Consultative Committee;
- (e) Provision of the detailed results of all the monitoring required by this consent;
- (f) Identify any non-compliance during the year;
- (g) Identify any significant trends in the data; and
- (h) If any non-compliance is detected, describe what actions and measures would be carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time.

Note: The Applicant may include the operation of wells SL1 – 9 and the associated gas gathering system and the conditions of this consent, in the Annual Environmental Performance Report required under Schedule 5 Condition 5 of development consent DA 282 6 2003 i, dated 16 June 2004.

Evidence sighted:

The 2006 – 2007 AEPR was submitted to the DoP in December 2007 and the 2007 – 2008 AEPR is currently being finalised.

Compliance status:

Compliant.

55. The Director-General may require the Applicant to address certain matters identified in the Annual Environmental Performance Report. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:

The auditor viewed a copy of AGL's timetable for the implementation of outstanding Recommended Actions from 2006 / 2007 AEPR. This has been forwarded to the DoP for comment.

Compliance status:

Compliant.

56. The Applicant shall also submit a copy of the Annual Environmental Performance Report to the DECC, Department of Primary Industries and Campbelltown City Council. The Applicant shall make a copy of the Report publicly available.

Evidence sighted:

Evidence that the most recent AEPR was sent to the Councils, DECC and the DPI was observed, dated 17 December 2007.

The 2006 – 2007 AEPR is available on the AGL website.

Compliance status:

Compliant.

Independent Environmental Audit – Construction at Sugarloaf Farm

57. On completion of all construction works, the Applicant shall commission and pay the full costs of an Independent Environmental Audit of the drilling and fracing of gas wells and construction of the gas gathering system and access roads on the site. The objective of the audit is to monitor the performance and effect of construction activities on the site. The Independent Environmental Audit shall:

- (a) Be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General; and
- (b) Be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals.

The Audit shall:

- (a) Assess the environmental performance of the construction of the development on the site, and its effects on the surrounding environment;
- (b) Assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (c) Consider the Applicant's proposed Construction Environmental Management Plan; and
- (d) Recommend measures or actions to improve the environmental performance of the construction of the development, and/or its environmental management and monitoring systems (if required).

Within one month of completion of the audit, the Applicant must submit a copy of the audit report to the Director-General and the NSW Heritage Office. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the NSW Heritage Office. Any action required to be undertaken shall be completed within such period as the Director-General may agree.

Evidence sighted:

Not applicable to date as construction at the development has not been completed.

Compliance status:

Not applicable.

Independent Environmental Audit – Operation

58. Within two years of the date of this consent and every two years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:

- (a) Be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
- (b) Be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals;
- (c) Assess the environmental performance of the development, and its effects on the surrounding environment;
- (d) Assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (e) Review the adequacy of the Applicant's Environmental Management Plan; and
- (f) Recommend measures or actions to improve the environmental performance of the development, and/or its environmental management and monitoring systems.

Evidence sighted:

This audit has included this Development Approval.

Compliance status:

Compliant.

Note: The Applicant may include the operation of wells SL1 – 7 and the associated gas gathering system and the conditions of this consent, in the Independent Environmental Audit required under Schedule 5 Condition 10 of development consent DA 282 6 2003 i, dated 16 June 2004.

Complaints Register

59. The Applicant shall keep a legible record of all complaints made to the applicant or any employee or agent of the Applicant in relation to pollution arising from any activity of the development. The Register must:

- (a) Record the date and time of the complaint;
- (b) Record the method by which the complaint was made;
- (c) Note any personal details of the complainant or, if no such details were provided, a note to that effect;
- (d) The nature of the complaint
- (e) The action taken by the applicant in relation to the complaint, including any follow-up contact with the complainant; and
- (f) State, if no action was taken by the Applicant, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 years after the complaint was made, and must be produced to any authorised officer of the DECC or the Department who asks to see them.

<p>Evidence sighted: Complaints are recorded in accordance with this CoC and reported in the AEPR.</p>
<p>Compliance status: Compliant.</p>

60. The Applicant must:

- (a) Operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted on the site or by the vehicle or mobile plant, unless otherwise specified in the Licence; and
- (b) Notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

<p>Evidence sighted: A telephone complaints line was observed to be advertised at all well sites. No complaints relating to the well sites have reportedly been received on the complaints line during the audit period.</p>
<p>Compliance status: Compliant.</p>

Community Liaison

61. The Applicant shall ensure the continuation of the existing Sydney Gas Operations Camden Project Community Consultative Committee to oversee the environmental performance of the development.

<p>Evidence sighted: The Community Consultative Committee (CCC) meets regularly and is chaired by an independent person appointed by the DPI.</p> <p>Minutes of meetings were observed for 17 August 2006, 23 November 2006, February 2006, 2 August 2007, 22 November 2007 and 27 March 2008.</p>
<p>Compliance status: Compliant.</p>

Project Approval

Section 75J of the *Environmental Planning & Assessment Act 1979*

I, the Minister for Planning, under Section 75J of the *Environmental Planning and Assessment Act 1979*, approve the project referred to in Schedule 1, subject to the conditions set out in Schedules 2 to 4.

The reason for these conditions is to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the project.

Frank Sartor MP
Minister for Planning

Sydney,

2006

File No. S02/02299

SCHEDULE 1

Project Application:	06_0137
Proponent:	Camden Gas Project Joint Venture between AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd
Approval Authority:	Minister for Planning
Land:	See Appendix 1
Project:	Razorback Wells (RB03-RB12), as shown in Appendix 2

DEFINITIONS

AEPR	Annual Environmental Performance Report
AGL	AGL Gas Production (Camden) Pty Ltd
CCC	Community Consultative Committee
Council	Wollondilly Council
Day	Day is defined as the period from 7.00am to 6.00pm on Monday to Saturday, and 8.00am to 6.00pm on Sundays and public holidays
DEC	Department of Environment and Conservation
Department	Department of Planning
Director-General	Director-General of the Department of Planning, or delegate
DPI	Department of Primary Industries
EA	Environmental Assessment
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
Evening	Evening is defined as the period from 6.00pm to 10.00pm
Fracking	the process by which coal seams are hydraulically fractured (fracked) by pumping a mixture of sand and water under high pressure into the seam until the coal fractures, in order to establish porous pathways to allow gas to flow back to the well from a larger drainage area
Land	Land means the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Night	Night is defined as the period from 10.00pm to 7.00am on Monday to Saturday, and 10.00pm to 8.00am on Sundays and Public Holidays
Proponent	Camden Gas Project Joint Venture between AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd
Site	Land to which the Project Approval applies (see Appendix 1)
SMS	Safety Management System

KEY TO CONDITIONS

DEFINITIONS	2
ADMINISTRATIVE CONDITIONS	4
ENVIRONMENTAL PERFORMANCE CONDITIONS	6
Noise	6
Waste Management	8
Hazards and Risk	9
Aboriginal Heritage	10
Ongoing Operations	10
Gas Gathering System	10
Rehabilitation	11
ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS	12
Operational Environmental Management Plan (OEMP)	12
Incident Reporting	12
Annual Reporting	12
Independent Environmental Audit	13
Community Consultative Committee	14
Access to Information	14
APPENDIX 1	
Schedule of Land	15
APPENDIX 2	
Project Area	16

**SCHEDULE 2
ADMINISTRATIVE CONDITIONS**

Obligation to Minimise Harm to the Environment

1. The Proponent shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the project.

Evidence sighted:

No significant issues were identified from surface observations at the time of the site visit.

Compliance status:

Compliant.

Terms of Approval

2. The Proponent shall carry out the project generally in accordance with the:
- (a) Project Application 06_0137;
 - (b) EA titled "*Environmental Assessment – Camden Gas Project Joint Venture Stage 2 Drilling Program, Razorback Wells (RB03-RB12)*", dated 20 July 2006, and prepared by HLA Envirosiences Pty Ltd;
 - (c) proposed changes to works in the EMAI and Razorback projects contained in a letter from AGL to the Department, dated 23 November 2006;
 - (d) revised Statement of Commitments contained in a letter from AGL to the Department, dated 4 December 2006; and
 - (e) conditions of this approval.

Evidence sighted:

The development is reportedly being undertaken in accordance with the above.

Compliance status:

Compliant.

3. If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:

Noted.

Compliance status:

Compliant.

4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
- (a) any reports, plans or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these reports, plans or correspondence.

Evidence sighted:

Requirements are reportedly implemented.

Compliance status:

Compliant.

Limits on Approval

5. This approval shall lapse 21 years after the date of this approval or on the expiry date of Petroleum Production Lease No. 4, whichever is the sooner.

Evidence sighted:

Noted.

Compliance status:

Not applicable.

6. Nothing in this approval permits the drilling and operation of any additional gas wells (beyond the approved 10 wells for gas production).

Evidence sighted: Noted.
Compliance status: Compliant.

7. The Proponent shall surrender the approval for any well that has not been drilled within 5 years of the date of this approval.

Evidence sighted: Noted.
Compliance status: Not applicable.

Notification

8. Within 3 months of the commissioning of the wells, the Proponent shall provide Council with:
- (a) the Geographical Positioning System (GPS) co-ordinates and digital survey data for the gas well sites and gas gathering system, in a format suitable to the Council; and
 - (b) the wellhead configuration of each gas well.

Evidence sighted: The Council has not been provided with the above information. This is reportedly because the wells under this Project Approval are still being constructed. AGL are required to provide these details within 3 months of commissioning the wells.
Compliance status: Non-compliant.
Recommended Action: Provide the Council with the GPS coordinates and wellhead configuration for each gas well.

Operation of Plant and Equipment

9. The Proponent shall ensure that all plant and equipment used at the site is:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient condition.

Evidence sighted: No equipment associated with environmental performance is associated with the installed wells.
Compliance status: Not applicable.

**SCHEDULE 3
ENVIRONMENTAL PERFORMANCE CONDITIONS**

NOISE

Construction and Maintenance Hours

1. The Proponent shall comply with the construction and maintenance hours in Table 1:

Activity	Day	Time
Construction	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil
Planned maintenance activities	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil (unless inaudible at any residential receiver)

Table 1: Construction and Maintenance Hours for the Project

Notes:

- *Inaudible means that the construction activity cannot be heard by the human ear at the nearest affected residential receivers*
- *This condition does not apply to the delivery of material if that delivery is required by the police or other authorities for safety reasons; and/or the operation or personnel or equipment is endangered. In such circumstances, prior notification is to be provided to affected residents where possible.*

Evidence sighted:

No construction work has reportedly been undertaken outside of these times.

Compliance status:

Compliant.

Construction Noise Goals

2. The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goal specified in Table 2.

Location	Day
Any residential receiver	54

Table 2: Construction Noise Goal dB(A) $L_{A10(15 min)}$

Note: See notes to condition 4

Evidence sighted:

The results of monitoring undertaken during drilling indicate compliance with the above criteria.

Compliance status:

Compliant.

Construction Noise Management Plan

3. The Proponent shall prepare and implement a Construction Noise Management Plan for construction of the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commencing construction and shall include:
- a detailed description of the measures that would be implemented to achieve the construction noise goal in condition 2;
 - a community notification protocol for the proposed construction activities (including any re-drilling or re-fracking of wells);
 - a description of the measures that would be implemented where the construction noise goal in condition 2 is unlikely to be achieved or is not being achieved; and

- (d) details of who would be responsible for monitoring, reviewing and implementing the plan.

Evidence sighted: The Razorback Wells Construction Noise Management Plan, prepared by Wilkinson Murray is dated December 2006. It complies with the elements of this CoC. URS has sighted approval of the plan from the DoP, dated 9 th January 2007.
Compliance status: Compliant.

Operational Noise Criteria

4. The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3.

Location	Day	Evening	Night	
	$L_{Aeq}(15 \text{ minute})$	$L_{Aeq}(15 \text{ minute})$	$L_{Aeq}(15 \text{ minute})$	$L_{A1}(1 \text{ minute})$
Any residential receiver	39	39	35	45

Table 3: Noise Impact Assessment Criteria dB(A)

Notes:

- Noise from the site is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the identified noise limits, except where otherwise specified below.
- Noise from the project is to be measured at 1 metre from the dwelling facade to determine compliance with the $L_{A1}(1 \text{ minute})$ noise level.
- Where it can be demonstrated that direct measurement of noise from the project is impractical, alternative means of determining compliance may be acceptable (see Chapter 11 of the NSW Industrial Noise Policy).
- The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise level where applicable.
- The identified noise emission limits apply under meteorological conditions of wind speed up to 3m/s at 10 metres above ground level, and temperature inversion conditions.

Evidence sighted: Noise monitoring was undertaken near sensitive receivers in the vicinity of wells RB10, RB11, RB12. This demonstrated compliance with noise limits.
Compliance status: Compliant.

Continuous Improvement

5. The Proponent shall, to the satisfaction of the Director-General:
- implement all reasonable and feasible best practice noise mitigation measures;
 - investigate ways to reduce the noise generated by the project; and
 - report on these investigations and the implementation and effectiveness of these measures in the AEPR,

Evidence sighted: Noise is not considered a significant issue around the Razorback locations, therefore AGL does not consider it necessary to provide innovative solutions to excess noise. AGL did report that it has begun to use a quieter generator for those wells that require pumping during operation.
Compliance status: Compliant.

Noise Monitoring Program

6. The Proponent shall prepare and implement a Noise Monitoring Program for the construction and operation of the project to the satisfaction of the Director-General. The Program shall be submitted to the Director-General prior to construction commencing and shall include a noise monitoring protocol for evaluating compliance with the construction noise goals and the operational noise impact assessment criteria in this approval.

Evidence sighted:

The Noise Monitoring Program for the Razorback Wells is dated December 2006 and describes the noise monitoring for both the construction and operational stages of the Project. URS sighted approval of the program dated 9 January 2007.

Compliance status:

Compliant.

AIR QUALITY

7. The Proponent shall implement all practicable measures to minimise dust emissions generated by the construction and operation of the project to the satisfaction of the Director-General.

Evidence sighted:

The following measures are undertaken to minimise the emission of dust from the development:

- Use of a water cart on the unsealed access roads as required;
- Restriction on the height of topsoil stockpiles to two metres;
- Restrictions on speed limits. These are communicated in the site induction materials;
- Access is restricted to the access roads, gathering line easements and well head areas; and
- Erosion and sediment controls are installed as per the SWMP.

No complaints of dust emissions have been received by AGL with regards to activities at the Project.

Compliance status:

Compliant

SURFACE WATER

8. The Proponent shall prepare and implement a Soil and Water Management Plan for the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commencing construction and shall:
- (a) be consistent with the requirements in *Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004* (Landcom);
 - (b) identify construction and operational activities that could cause soil erosion and generate sediment;
 - (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
 - (d) describe the location, function, and capacity of erosion and sediment control structures for both construction and operation;
 - (e) describe what measures would be implemented to maintain the structures over time; and
 - (f) describe the procedures that would be followed for planned and unplanned water discharges from the site.

Note: To fulfil this condition, the Proponent may prepare and implement an updated version of the Soil and Water Management Plan prepared under Schedule 4 Condition 84 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

AGL created a separate SWMP for the Razorback and new EMAI wells titled "Camden Gas Project: Elizabeth Macarthur Agricultural Institute Wells (EM23 – EM36) and Razorback Wells" Soil and Water Management Plan" dated 18 December 2006.

The SWMP complies with the above requirement. URS sighted approval of the plan from the DoP, dated 9th January 2007.

Compliance status:

Compliant.

WASTE MANAGEMENT

9. The Proponent shall ensure that any waste or wastewater is assessed and classified in accordance with the DEC'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 DEC.

Evidence sighted:

Waste and wastewater is assessed and classified in accordance with the guidelines. No hazardous, industrial

or Group A waste has originated from the Razorback Wells construction or operations.

Compliance status:
Compliant.

HAZARDS AND RISK

Safety and Risk Management

10. The Proponent shall prepare and implement an Emergency Plan for the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commissioning of the project and shall be prepared in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 1- Industry Emergency Planning Guidelines*.

Note: To fulfil this condition the Proponent may prepare and implement an updated version of the Plan prepared under Schedule 4 condition 92(a) development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The original Emergency Plan was developed and approved in August 2004 under DA 282-6-2003. The Emergency Response Plan Map South, which delineates the area covered by the Emergency Plan, was updated in early 2007 to include the Razorback Wells.

Compliance status:
Compliant.

11. The Proponent shall prepare and implement Safety Management System (SMS) for the project, to the satisfaction of the Director-General. The SMS shall be submitted to the Director-General prior to commissioning of the project and shall be prepared in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 9 - Safety Management*. The SMS shall:
- cover all operations on the wells and gas gathering system;
 - clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures;
 - include a summary of records to demonstrate that management of change procedures were followed for the connection of new gas lines to the existing network and for the integration of new wells into the automatic control system; and
 - confirm that the design and operation of all wellheads comply with the Department's *Locational Guidelines - Development in the Vicinity of Operating Coal Seam Methane Wells* (May 2004) for an Automatically Controlled Well (with Separator/Optional Pump) and that all safety related systems required by the guidelines have been included.

Note: To fulfil this condition the Proponent may prepare and implement an updated version of the SMS prepared under Schedule 4 condition 92(b) of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The Safety Management System is included in the EHSMPs, The EHSMPs are to be replaced by a new Safety Management System. The new system is under development.

Compliance status:
Compliant.

Compliance Report

12. Within 3 months of commissioning of the project, the Proponent shall prepare a compliance report to the satisfaction of the Director-General. The report shall be prepared by a suitably qualified, experienced, and independent expert whose appointment has been endorsed by the Director-General and shall include:
- dates of commencement of construction and commissioning;
 - actions taken (or proposed to be taken) to implement conditions 10 and 11; and
 - a signed statement that:
 - the Emergency Plan required under condition 10 is effectively in place and that at least one emergency exercise has been conducted;
 - the SMS required under condition 11 has been fully implemented and that records required by the system are being kept;
 - the Emergency Plan and SMS have been prepared in accordance with the relevant *Hazardous Industry Planning Advisory Paper*;

- all recommendations of the Emergency Plan and SMS have been implemented and are being maintained; and
- all safety management systems and their associated risk controls have been implemented and are being maintained.

Evidence sighted: A compliance report has not been prepared for the Project.
Compliance status: Non-compliant.
Recommendation: After updating the Emergency Plan and developing a new Safety Management System provide a report to indicate compliance with the above requirements.

ABORIGINAL HERITAGE

13. The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project, in consultation with the DEC and relevant Aboriginal communities, and to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commencing construction (unless otherwise agreed with the Director-General) and shall include:
- a description of the measures that would be implemented for the test pit excavation, mapping and salvage or relocation of the archaeological relics on RB5 IF 1, RB5 Site 1, and RB11 IF 2;
 - a description of the measures that would be implemented if any new Aboriginal objects are discovered during the project; and
 - a protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.

Note: The archaeological site references in conditions 13 are the same as those in the "Aboriginal Archaeological Survey and Assessment Report for Twelve Proposed Gas Production Well Sites, Gathering Systems & Access Routes The Razor Back Property" prepared by Dominic Steele Consulting Archaeology, and dated July 2005.

Evidence sighted: The Aboriginal Heritage Management Plan for the Project is dated February 2007 and will be included in the new EMS. This includes a description of measures that would be implemented for the mapping and salvage or relocation of the archaeological relics listed; a description of measures that would be implemented if any objects are discovered during the Project and a protocol for the involvement of Aboriginal communities. The auditor viewed sign off of the Plan by the local aboriginal groups (Cubbitch Barta Native Title Claimants and Tharawal Local Aboriginal Land Council).
Compliance status: Compliant.

ONGOING OPERATIONS

Redrilling and Re-fracing

14. The Proponent shall obtain the prior approval of the Director-General prior to undertaking work involving the redrilling and/or re-fracing of wells approved under this approval.

Note: For the purposes of this approval the redrilling and/or re-fracing of a well does not constitute wellhead maintenance.

Evidence sighted: No redrilling or refracing has occurred to date under this Approval.
Compliance status: Not applicable.

Gas Gathering System

15. The Proponent shall, to the satisfaction of the Director-General, ensure that:
- pipelines are designed, constructed and operated in accordance with the *Australian Standard for the Installation and Maintenance of Plastic Pipe Systems for Gas AS 3723-1989* (or its latest version);
 - the route of gas gathering and water transport systems and access roads follow previously or currently disturbed areas wherever possible

- (c) trenches are not left open overnight, unless adequately covered;
- (d) routes of gas gathering and water transport lines are rehabilitated and reseeded with local grasses on completion of pipe laying;
- (e) works within 20 metres of watercourses are only undertaken during dry weather conditions;
- (f) the pipeline crossing of Finns Road is located at a depth of at least 1.2 metres below the road surface
- (g) construction activities do not impede lateral water flows;
- (h) no crown or camber remains along any gas gathering system line, following rehabilitation; and
- (i) signs are erected at intervals along all gas gathering system lines indicating the presence of a buried gas pipeline.

Evidence sighted:

The EHSMP for the gas gathering lines contains the requirements to comply with this CoC:

- (a) This is reportedly undertaken.
- (b) This has reportedly been the case for ease of construction.
- (c) It is a requirement of the EHSMP that trenches built for installing gas gathering lines are not left open overnight. No trenches were reportedly left overnight during this audit period.
- (d) Trenches are narrow and generally in disturbed areas (1m – 2m wide) and seeding is not reported to be generally required.
- (e) There have been no works within 20m of watercourses under this Project Approval.
- (f) 1.2m below ground level is reportedly the standard underbore under roads for the gas gathering lines.
- (g) These areas are managed through the Part 3A permit system. There has been no requirement to apply for a Part 3A permit under this Project Approval.
- (h) Crown and camber are removed following construction
- (i) Signs indicating the presence of buried pipeline have been erected and were observed during the site visit.

Compliance status:

Compliant.

REHABILITATION

16. The Proponent shall progressively rehabilitate the site to the satisfaction of the Director-General, in a manner that is generally consistent with the landform of the surrounding land.

Evidence sighted:

AGL has reported in the 2007 – 2008 draft AEPR that approximately 117Ha have been rehabilitated to date. Rehabilitation works at different stages were observed during the site visit. Rehabilitation generally appeared in accordance with the EHSMPs.

URS has not viewed any correspondence from the Director-General regarding rehabilitation.

Compliance status:

Compliant.

17. The Proponent shall prepare and implement a Rehabilitation Management Plan to the satisfaction of the Director-General. The Plan shall be submitted to the Director-General within 6 months of the date of this approval and shall:
- (a) identify the areas likely to be disturbed by the project; and
 - (b) describe the measures that would be implemented to rehabilitate the site.

Evidence sighted:

A Clean-up and Rehabilitation Plan is contained in the EHSMP, which was approved by the DoP in 2004. The EHSMP is considered to cover all wells relating to this development consent.

Compliance status:

Compliant.

**SCHEDULE 4
ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS**

OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN (OEMP)

1. The Proponent shall prepare and implement an Operational Environmental Management Plan (OEMP) for the project to the satisfaction of the Director-General. The OEMP shall be submitted to the Director-General prior to commissioning of the project and shall:
 - (a) incorporate the various environmental management plans, monitoring programs and other requirements set out in Schedule 3 of this approval;
 - (b) identify statutory and other obligations that the Proponent is required to fulfil during the operation of the project;
 - (c) describe the environmental policies and principles to be applied to the operation of the project;
 - (d) describe in general how the environmental performance of the project would be monitored and managed;
 - (e) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - manage cumulative impacts; and
 - respond to emergencies (including bushfires); and
 - (f) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the project.

Note: To fulfil this condition, the Proponent may prepare and implement an updated version of the OEMP prepared under Schedule 5 condition 2 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The EHSMP for Drilling, Completion and Testing Operations was approved by the DoP in 2004, but has not been updated with the requirements under this Project Approval. These will be included in the new EMP under the EMS.

Compliance status:

Non-compliant.

Recommendation:

Continue developing the new EMS and sub plans. Ensure all the requirements under this Project Approval are included.

INCIDENT REPORTING

2. Within 7 days of detecting an exceedance of the goals/limits/performance criteria in this approval or an incident causing (or threatening to cause) material harm to the environment; the Proponent shall report the exceedance/incident to the Department (and any relevant agency). The report shall:
 - (a) describe the date, time, and nature of the exceedance/incident;
 - (b) identify the cause (or likely cause) of the exceedance/incident;
 - (c) describe what action has been taken to date; and
 - (d) describe the proposed measures to address the exceedance/incident.

Evidence sighted:

According to the incident register no reportable incidents have occurred within the reporting period.

Compliance status:

Compliant.

ANNUAL REPORTING

3. Within 12 months of the date of this approval, and annually thereafter during the life of the project, the Proponent shall prepare an Annual Environmental Performance Report (AEPR) for the project to the Director-General. The AEPR shall:
 - (a) identify the standards, performance measures and statutory requirements that apply to the project;

- (b) assess the environmental performance of the project to determine whether it is complying with these standards, performance measures, and statutory requirements;
- (c) identify any non-compliance during the year with the conditions of this approval or any standard, performance measure or statutory requirement that applies to the project;
- (d) describe, if any non-compliance is identified, the actions and measures carried out or being carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time;
- (e) include a copy of complaints for the year and a description of actions taken or being taken to address registered complaints;
- (f) include a discussion of issues or recommendations raised by the Camden Gas Project's Community Consultative Committee and a description of actions taken or being taken to address these issues or recommendations; and
- (g) include a detailed summary of results of all monitoring required by this approval and a discussion of any significant results, trends or exceptions in these results.

Note: The Proponent may include this report in the Annual Environmental Performance Report required under Schedule 5 condition 5 of development consent DA-282-6-2003-i, dated 16 June 2004. The due date for a combined report shall be the earlier of the due dates for the separate reports.

Evidence sighted:

The 2006 – 2007 AEPR was submitted to the DoP in December 2007 and the 2007 – 2008 AEPR is currently being finalised.

Compliance status:

Compliant.

4. The Proponent shall submit a copy of the AEPR to the DPI, DEC and Council.

Evidence sighted:

Evidence that the most recent AEPR was sent to the Councils, DECC and DPI was observed, dated 17 December 2007.

The 2006 – 2007 AEPR is available on the AGL website.

Compliance status:

Compliant.

INDEPENDENT ENVIRONMENTAL AUDIT

5. Within 2 years of the date of this approval and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
 - (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals;
 - (c) assess the environmental performance of the project, and its effects on the surrounding environment;
 - (d) include a hazard audit of the project in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines"*;
 - (e) assess whether the project is complying with the relevant standards, performance measures, and statutory requirements;
 - (f) review the adequacy of the OEMP; and
 - (g) recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.

Note: The Proponent may include audit in the Independent Environmental Audit required under Schedule 5 condition 10 of development consent DA-282-6-2003-i, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits

Evidence sighted:

This audit has included this Project Approval.

Compliance status:

Compliant.

6. Within 1 month of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General, DPI and DECC, with a response to any of the recommendations contained in the audit report.

Evidence sighted:

Previous to this audit, an audit has not been carried out under this Project Approval.

Compliance status:

Not applicable.

7. Following each Independent Environmental Audit, the Proponent shall review and if necessary revise the OEMP (and any documents contained in the plan), to the satisfaction of the Director-General. The revised OEMP shall be submitted to the Director-General within 6 months of completing the audit.

Evidence sighted:

Previous to this audit, an audit has not been carried out under this Project Approval.

Compliance status:

Not applicable.

COMMUNITY CONSULTATIVE COMMITTEE

8. The Proponent shall ensure that the construction and operation of the project is subject to the consideration of the Camden Gas Project Community Consultative Committee, as established under Schedule 5 Condition 17 of development consent DA No. 282-6-2003-I, dated 16 June 2004.

Evidence sighted:

This Project is subject to the Community Consultative Committee.

Compliance status:

Not applicable.

ACCESS TO INFORMATION

9. From 31 March 2007, and during the life of the project thereafter, the Proponent shall place a copy of the following documents and information (and any subsequent revisions) required under this approval on its website:
- (a) all current environmental management plans, strategies and programs;
 - (b) all Independent Environmental Audits;
 - (c) all AEPRs; and
 - (d) a summary of all environmental monitoring results required under this consent (to be updated at least every 6 months),

Evidence sighted:

The approved EHSMPs, the AEPRs and the last Independent Environmental Audit are located in the Archive Library section of the AGL website. In addition a brief environmental monitoring summary is included on the website however this does not include a summary of all environmental monitoring results under this consent.

Compliance status:

Non-compliant.

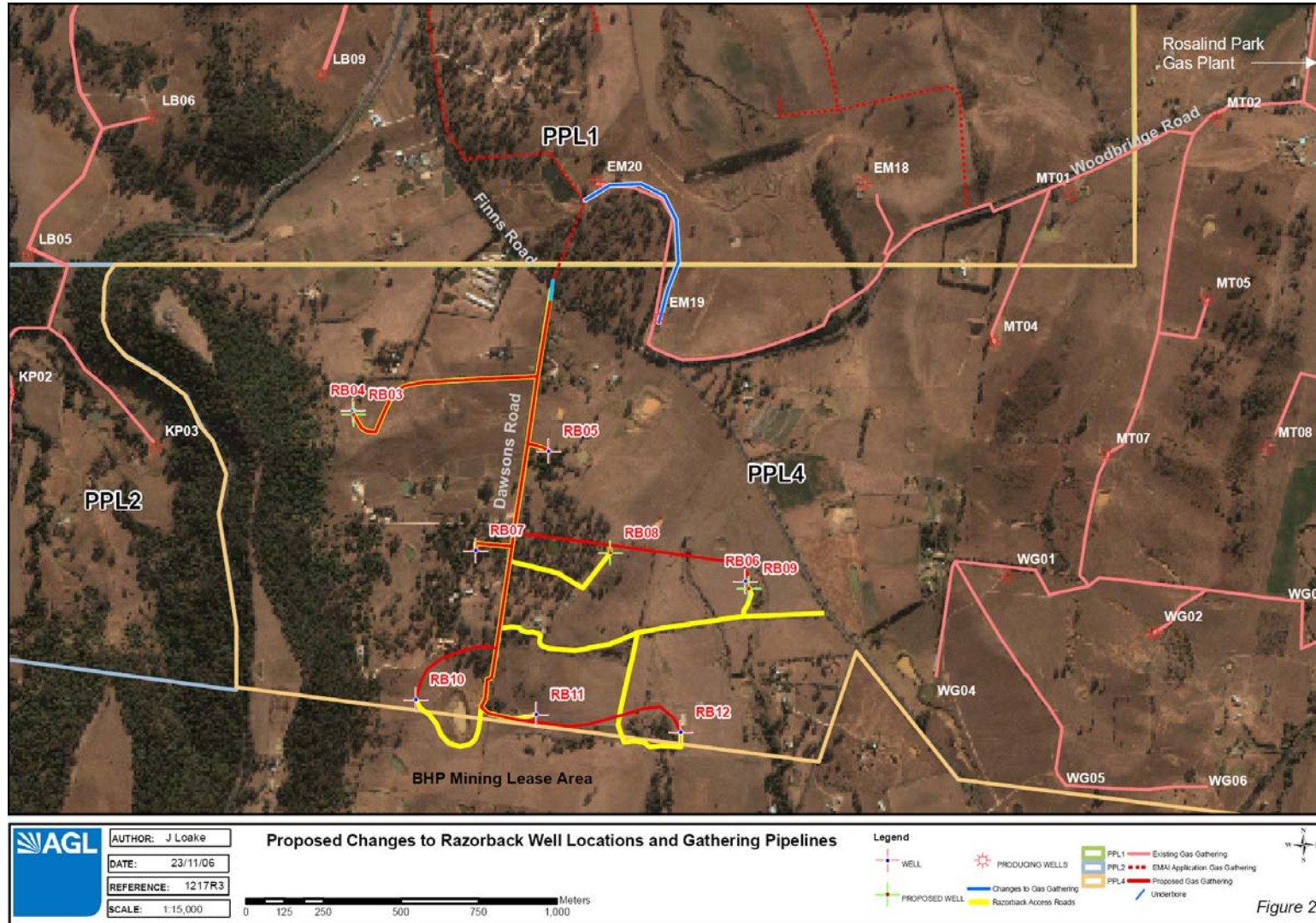
Recommendation:

Provide a more detailed summary of monitoring data on the website. This needs to be updated on a six monthly basis.

**APPENDIX 1
SCHEDULE OF LAND**

Property	Facility	Lot and DP Number
20 Dawsons Road, Menangle	RB03 and RB04 and gas gathering line	Lot 1, DP 959711
25-75 Dawsons Road, Menangle	RB05 and gas gathering line	Lot 2 DP 572954
90 Dawsons Road, Razorback	RB07 and gas gathering line	Lot 81, DP 588337
125 Finns Road, Menangle	RB06, RB08 and RB09 and gas gathering line	Lot 124, DP 809576
82 Dawsons Road, Menangle	RB10 and gas gathering line	Lot 82, DP 588337
40 Carrolls Road, Menangle	RB11 and RB12 and gas gathering line	Lot 123, DP 809576
Dawsons Road and Finns Road	gas gathering line	road reserve of Dawsons Road and Finns Road

APPENDIX 2 PROJECT AREA



Project Approval

Section 75J of the *Environmental Planning & Assessment Act 1979*

I, the Minister for Planning, under Section 75J of the *Environmental Planning and Assessment Act 1979*, approve the project referred to in Schedule 1, subject to the conditions set out in Schedules 2 to 4.

The reason for these conditions is to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the project.

Frank Sartor MP
Minister for Planning

Sydney 9 December 2006

File No. S02/02299

SCHEDULE 1

Project Application:	06_0138
Proponent:	Camden Gas Project Joint Venture between AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd
Approval Authority:	Minister for Planning
Land:	See Appendix 1
Project:	Elizabeth Macarthur Agricultural Institute Wells (EM23-EM37 as shown in Appendix 2

DEFINITIONS

AEPR	Annual Environmental Performance Report
AGL	AGL Gas Production (Camden) Pty Ltd
CCC	Community Consultative Committee
Council	Wollondilly Shire Council
Day	Day is defined as the period from 7.00am to 6.00pm on Monday to Saturday, and 8.00am to 6.00pm on Sundays and public holidays
DEC	Department of Environment and Conservation
Department	Department of Planning
Director-General	Director-General of the Department of Planning, or delegate
DPI	Department of Primary Industries
EA	Environmental Assessment
EMAI	Elizabeth Macarthur Agricultural Institute
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
Evening	Evening is defined as the period from 6.00pm to 10.00pm
Fracking	The process by which coal seams are hydraulically fractured (fraced) by pumping a mixture of sand and water under high pressure into the seam until the coal fractures, in order to establish porous pathways to allow gas to flow back to the well from a larger drainage area
Land	Land means the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Night	Night is defined as the period from 10.00pm to 7.00am on Monday to Saturday, and 10.00pm to 8.00am on Sundays and Public Holidays
Proponent	Camden Gas Project Joint Venture between AGL Gas Production (Camden) Pty Ltd and Sydney Gas (Camden) Operations Pty Ltd
Site	Land to which the Project Approval applies (see Appendix 1)
SIS well	Surface to In-seam well
SMS	Safety Management System

TABLE OF CONTENTS

ADMINISTRATIVE CONDITIONS	4
ENVIRONMENTAL PERFORMANCE CONDITIONS	6
Noise	6
Air Quality	7
Surface Water	7
Flood Management	9
Waste Management	9
Hazards and Risk	9
Flora and Fauna	10
Aboriginal Heritage	10
Ongoing Operations	11
Rehabilitation	11
ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS	13
Operational Environmental Management Plan (OEMP)	13
Incident Reporting	13
Annual Reporting	13
Independent Environmental Audit	14
Community Consultative Committee	15
Access to Information	15
APPENDIX 1	
Schedule of Land	16
APPENDIX 2	
Project Area	17

**SCHEDULE 2
ADMINISTRATIVE CONDITIONS**

Obligation to Minimise Harm to the Environment

1. The Proponent shall implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction or operation of the project.

Evidence sighted:

No significant issues were identified from surface observations at the time of the site visit.

Compliance status:

Compliant.

Terms of Approval

2. The Proponent shall carry out the project generally in accordance with the:
- (a) Project Application 06_0138;
 - (b) EA titled "*Environmental Assessment – Camden Gas Project Joint Venture Stage 2 Drilling Program, Elizabeth Macarthur Agricultural Institute Wells (EM23-EM36)*", dated 20 July 2006, and prepared by HLA Envirosciences Pty Ltd;
 - (c) EM32 and EM34 Additional Noise Assessment contained in a letter from AGL to the Department, dated 26 September 2006;
 - (d) proposed changes to works in the EMAI and Razorback projects contained in a letter from AGL to the Department, dated 23 November 2006;
 - (e) raptor breeding seasons and revised Statement of Commitments contained in a letter from AGL to the Department, dated 4 December 2006;
 - (f) modification application (06_0138 Mod 1) titled "*EM37 Well Modification Project Environmental Assessment*", dated 21 March 2007;
 - (g) letter concerning E\$M32 from AGL Gas Production (Camden) Pty Limited to the Department, dated 31 May 2007; and
 - (h) conditions of this approval.

Evidence sighted:

The development is reportedly being undertaken in accordance with the above.

Compliance status:

Compliant.

3. If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.

Evidence sighted:

Noted.

Compliance status:

Compliant.

4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
- (a) any reports, plans, programs or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these reports, plans, programs or correspondence.

Evidence sighted:

Requirements are reportedly implemented.

Compliance status:

Compliant.

Limits on Approval

5. This approval shall lapse 21 years after the date of this approval or on the expiry date of Petroleum Production Lease No. 1 or Petroleum Production Lease No. 4, whichever is the sooner.

Evidence sighted:

Noted.

Compliance status:
Not applicable.

6. Nothing in this approval permits the drilling and operation of any additional gas wells (beyond the approved 15 wells for gas production).

Evidence sighted:
Noted.

Compliance status:
Not applicable.

7. The Proponent shall surrender the approval for any well that has not been drilled within 5 years of the date of this approval.

Evidence sighted:
Noted.

Compliance status:
Not applicable.

Notification of Council

8. Within 3 months of the commissioning of the wells, the Proponent shall provide Council with:
- (a) the Geographical Positioning System (GPS) co-ordinates and digital survey data for the gas well sites and gas gathering system, in a format suitable to the Council; and
 - (b) the wellhead configuration of each well.

Evidence sighted:

The Council has not been provided with the following information. This is reportedly because the wells under this Project Approval are still being constructed. AGL is required to provide these details within 3 months of commissioning the wells.

Compliance status:
Non-compliant.

Recommended Action:

Provide the Council with the GPS coordinates and wellhead configuration for each gas well.

Operation of Plant and Equipment

9. The Proponent shall ensure that all plant and equipment used at the site is:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient condition.

Evidence sighted:

No equipment associated with environmental performance is associated with the installed wells.

Compliance status:
Not applicable.

SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

NOISE

Construction and Maintenance Hours

1. Except for the drilling (including well casing and grouting) of SIS wells EM32 and EM34, the Proponent shall comply with the construction and maintenance hours in Table 1:

Activity	Day	Time
Construction	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil
Planned maintenance activities	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil (unless inaudible at any residential receiver)

Table 1: Construction and Maintenance Hours for the Project

Notes:

- *Inaudible means that the construction activity cannot be heard by the human ear at the nearest affected residential receivers*
- *This condition does not apply to the delivery of material if that delivery is required by the police or other authorities for safety reasons; and/or the operation or personnel or equipment is endangered. In such circumstances, prior notification is to be provided to affected residents where possible.*

Evidence sighted:

No construction work has reportedly been undertaken outside of these times.

Compliance status:

Compliant.

Construction Noise Goals

2. The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goals specified in Table 2.

Location	Day	Evening	Night
Any residential receiver	54	39	35

Table 2: Construction Noise Goals dB(A) $L_{A10(15 min)}$

Note: See notes to condition 4

Evidence sighted:

The auditor was provided with noise monitoring results taken during the drilling of EM24 and EM33. The monitoring result for EM33 was 3.6dB higher than the above criteria. However, the monitor was not placed at a residential boundary due to background noise from the residential area and was actually placed 1.5km closer to EM33. It is likely that construction noise levels at the residential boundary would be below the specified limit

Compliance status:

Administrative non-compliance

Recommended Action:

Ensure that construction / drilling noise monitoring is undertaken at a location and time which is prescribed by the conditions of consent in order to confirm compliance with those conditions.

Construction Noise Management Plan

3. The Proponent shall prepare and implement a Construction Noise Management Plan for construction of the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to construction commencing and shall include:
 - (a) a detailed description of the measures that would be implemented to achieve the construction noise goals in condition 2;
 - (b) a community notification protocol for the proposed construction activities (including any redrilling or re-fracking of wells);
 - (c) a description of the measures that would be implemented where the construction noise goals in condition 2 are unlikely to be achieved or are not being achieved; and
 - (d) details of who would be responsible for monitoring, reviewing and implementing the plan.

Evidence sighted:

The EMAI Wells Construction Noise Management Plan, prepared by Wilkinson Murray is dated December 2006. It complies with the elements of this CoC. URS sighted correspondence from the DoP confirming approval of the plan, dated January 2008.

Compliance status:

Compliant.

Operational Noise Criteria

4. The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3.

Location	Day	Evening	Night	
	<i>L_{Aeq(15 minute)}</i>	<i>L_{Aeq(15 minute)}</i>	<i>L_{Aeq(15 minute)}</i>	<i>L_{A1(1 minute)}</i>
Any residential receiver	39	39	35	45

Table 3: Noise Impact Assessment Criteria dB(A)

Notes:

- Noise from the site is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the identified noise limits, except where otherwise specified below.
- Noise from the project is to be measured at 1 metre from the dwelling facade to determine compliance with the *L_{A1(1 minute)}* noise level.
- Where it can be demonstrated that direct measurement of noise from the project is impractical, alternative means of determining compliance may be acceptable (see Chapter 11 of the NSW Industrial Noise Policy).
- The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise level where applicable.
- The identified noise emission limits apply under meteorological conditions of wind speed up to 3m/s at 10 metres above ground level, and temperature inversion conditions.

Evidence sighted:

Noise monitoring was undertaken at sensitive receivers in the vicinity of wells EM30, EM32 and EM37. This demonstrated compliance with noise limits.

Compliance status:

Compliant.

Continuous Improvement

5. The Proponent shall, to the satisfaction of the Director-General:
 - (a) implement all reasonable and feasible best practice noise mitigation measures;
 - (b) investigate ways to reduce the noise generated by the project; and
 - (c) report on these investigations and the implementation and effectiveness of these measures in the AEPR,

Evidence sighted:

Noise is not considered a significant issue around the EMAI locations, therefore AGL does not consider it necessary to provide innovative solutions to control excessive noise. AGL did report that it has begun to use a quieter drilling pumps and ancillary equipment, and generators for those wells that require pumping during operation.

Compliance status:

Compliant.

Noise Monitoring Program

6. The Proponent shall prepare and implement a Noise Monitoring Program for the construction and operation of the project to the satisfaction of the Director-General. The Program shall be submitted to the Director-General prior to construction commencing and shall include a noise monitoring protocol for evaluating compliance with the construction noise goals and the operational noise impact assessment criteria in this approval.

Evidence sighted:

The Noise Monitoring Program for the EMAI Wells is dated December 2006 and describes the noise monitoring for both the construction and operational stages of the Project. URS sighted correspondence from the DoP confirming approval of the plan, dated January 2007.

Compliance status:

Compliant.

AIR QUALITY

7. The Proponent shall implement all practicable measures to minimise dust emissions generated by the construction and operation of the project to the satisfaction of the Director-General.

Evidence sighted:

The following measures are undertaken to minimise the emission of dust from the development:

- Use of a water cart on the unsealed access roads as required;
- Restriction on the height of topsoil stockpiles to two metres;
- Restrictions on speed limits. These are communicated in the site induction materials;
- Access is restricted to the access roads, gathering line easements and well head areas;
- Erosion and sediment controls are installed as per the SWMP.

No complaints regarding dust emissions have been received by AGL with regard to activities at the Project.

Compliance status:

Compliant.

SURFACE WATER

8. The Proponent shall prepare and implement a Soil and Water Management Plan for the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to construction commencing and shall:
- (a) be consistent with the requirements in *Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004* (Landcom);
 - (b) identify construction and operational activities that could cause soil erosion and generate sediment;
 - (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
 - (d) describe the location, function, and capacity of erosion and sediment control structures for both construction and operation;
 - (e) describe what measures would be implemented to maintain the structures over time; and
 - (f) describe the procedures that would be followed for planned and unplanned water discharges from the site.

Note: To fulfil this condition, the Proponent may prepare and implement an updated version of the Soil and Water Management Plan prepared under Schedule 4 Condition 84 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

AGL created a separate SWMP for the Razorback and new EMAI wells titled "Camden Gas Project: Elizabeth Macarthur Agricultural Institute Wells (EM23 – EM36) and Razorback Wells" Soil and Water Management Plan" dated 18 December 2006.

The SWMP complies with the above requirement. URS sighted correspondence from the DoP confirming approval of the plan, dated 9th January 2007.

Compliance status:

Compliant.

FLOOD MANAGEMENT

9. The Proponent shall prepare and implement a Flood Management Plan for wells EM34 and EM35 located within the 1 in 100 year flood level, to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commissioning of wells EM34 and EM35, and shall include measures to minimise and mitigate flooding impacts associated with the project.

Note: To fulfil this condition, the Proponent may prepare and implement an updated version of the Flood Management Plan prepared under Schedule 3 condition 12 of development consent DA-171-7-2005i, dated 25 March 2006.

Evidence sighted:

Well EM35 has not been drilled to date. EM34 has been drilled but refracting is required so the well has not been commissioned yet.

Compliance status:

Not applicable.

WASTE MANAGEMENT

10. The Proponent shall ensure that any waste or wastewater is assessed and classified in accordance with the DEC'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 DEC.

Evidence sighted:

Waste and wastewater is assessed and classified in accordance with the guidelines. No hazardous, industrial or Group A waste has originated from the EMAI Wells during construction or operation.

Compliance status:

Compliant.

HAZARDS AND RISK

Safety and Risk Management

11. The Proponent shall prepare and implement an Emergency Plan for the project to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commissioning of the project and shall be prepared in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 1 - Industry Emergency Planning Guidelines*.

Note: To fulfil this condition the Proponent may prepare and implement an updated version of the Plan prepared under Schedule 4 condition 92(a) development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The original Emergency Plan was developed and approved in August 2004 under DA 282-6-2003. The Emergency Response Plan Map South, which delineates the area covered by the Emergency Plan, was updated in early 2007 to include the EMAI wells.

Compliance status:

Compliant

12. The Proponent shall prepare and implement a Safety Management System (SMS) for the project, to the satisfaction of the Director-General. The SMS shall be submitted to the Director-General prior to commissioning of the project and shall be prepared in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 9 - Safety Management*. The SMS shall;
- cover all operations on the wells and gas gathering system;
 - clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures;
 - include a summary of records to demonstrate that management of change procedures were followed for the connection of new gas lines to the existing network and for the integration of new wells into the automatic control system; and
 - confirm that the design and operation of all wells comply with the Department's *Locational Guidelines - Development in the Vicinity of Operating Coal Seam Methane*

Wells (May 2004) for an Automatically Controlled Well (with Separator/Optional Pump) and that all safety related systems required by the guidelines have been included.

Note: To fulfil this condition the Proponent may prepare and implement an updated version of the SMS prepared under Schedule 4 condition 92(b) of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The Safety Management System is included in the EHSMPs, The EHSMPs are to be replaced by a new Safety Management System. The new system is under development.

Compliance status:

Compliant.

Compliance Report

13. Within 3 months of commissioning of the project, the Proponent shall prepare a compliance report to the satisfaction of the Director-General. The report shall be prepared by a suitably qualified, experienced, and independent expert whose appointment has been endorsed by the Director-General and shall include:
- (a) dates of commencement of construction and commissioning;
 - (b) actions taken (or proposed to be taken) to implement conditions 11 and 12; and
 - (c) a signed statement that:
 - the Emergency Plan required under condition 11 is effectively in place and that at least one emergency exercise has been conducted;
 - the SMS required under condition 12 has been fully implemented and that records required by the system are being kept;
 - the Emergency Plan and SMS have been prepared in accordance with the relevant *Hazardous Industry Planning Advisory Paper*;
 - all recommendations of the Emergency Plan and SMS have been implemented and are being maintained; and
 - all safety management systems and their associated risk controls have been implemented and are being maintained.

Evidence sighted:

A compliance report has not been prepared for the Project.

Compliance status:

Non-compliant.

Recommendation:

After updating the Emergency Plan and developing a new Safety Management System provide a report to indicate compliance with the above requirements.

FLORA AND FAUNA

14. The Proponent shall only undertake drilling and fracking of EM23, EM27, EM33 and EM36, and construction of gas gathering lines and access roads located within the raptor zones outside of the recognised breeding season (June to January) of raptor species nesting in the EMAI's raptor zones.

Evidence sighted:

Wells EM23, EM27 and EM33 were drilled in late 2007, outside the raptor breeding season.

EM36 has not been drilled.

Compliance status:

Compliant.

ABORIGINAL HERITAGE

15. The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project, in consultation with the DEC and relevant Aboriginal communities, and to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to commencing construction (or as otherwise agreed by the Director-General) and shall include:
- (a) a description of the measures that would be implemented for the mapping, and salvage or relocation of the archaeological relics on EMAI Sites 1, 2 4, 5, 6, and 7; CP OS 3; and IF 1 and IF 2;

- (b) a description of the measures that would be implemented if any new Aboriginal objects are discovered during the project; and
- (c) a protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.

Note: The archaeological site references in condition 15 are the same as those in the "Aboriginal Cultural Heritage Survey and Assessment Report for Fifteen New Proposed Gas Production Well Sites, Gathering Systems & Access Routes Camden Gas Project Stage 2 The Elizabeth Macarthur Agricultural Institute Property" prepared by Dominic Steele Consulting Archaeology, and dated December 2005.

Evidence sighted:

The Aboriginal Heritage Management Plan for the Project is dated February 2007 and will be included in the new EMS. This includes a description of measures that would be implemented for the mapping and salvage or relocation of the archaeological relics listed; a description of measures that would be implemented if any objects are discovered during the Project and a protocol for the involvement of Aboriginal communities.

The auditor viewed sign off of the Plan by the local aboriginal groups (Cubbitch Barta Native Title Claimants and Tharawal Local Aboriginal and Council).

Compliance status:

Compliant.

ONGOING OPERATIONS

Redrilling and Re-fracing

- 16. The Proponent shall obtain the approval of the Director-General prior to undertaking work involving the redrilling and/or re-fracing of wells approved under this approval.

Note: For the purposes of this approval the redrilling and/or re-fracing of a well does not constitute wellhead maintenance.

Evidence sighted:

AGL has applied for approval for refracing at wells EM27, EM31 and EM34. These works have not yet been approved. No refracing or redrilling has been undertaken.

Compliance status:

Compliant.

Gas Gathering System

- 17. The Proponent shall, to the satisfaction of the Director-General, ensure that:
 - (a) pipelines are designed, constructed and operated in accordance with the *Australian Standard for the Installation and Maintenance of Plastic Pipe Systems for Gas AS 3723-1989* (or its latest version);
 - (b) the route of gas gathering and water transport systems and access roads follow previously or currently disturbed areas wherever possible
 - (c) trenches are not left open overnight, unless adequately covered;
 - (d) works within 20 metres of watercourses are only undertaken during dry weather conditions;
 - (e) the pipeline crossing of Remembrance Drive is located at a depth of at least 1.2 metres below the road surface;
 - (f) construction activities do not impede lateral water flows;
 - (g) no crown or camber remains along any gas gathering system line, following rehabilitation; and
 - (h) signs are erected at intervals along all gas gathering system lines indicating the presence of a buried gas pipeline.

Evidence sighted:

The EHSMP for the gas gathering lines contains the requirements to comply with this CoC:

- (a) This is reportedly undertaken.
- (b) This has reportedly been the case for ease of construction.
- (c) It is a requirement of the EHSMP that trenches built for installing gas gathering lines are not left open overnight. No trenches were reportedly left overnight during this audit period.
- (d) There have been no works within 20m of watercourses under this Project Approval.
- (e) 1.2m below ground level is reportedly the standard underbore under roads for the gas gathering lines.
- (f) These areas are managed through the Part 3A permit system. There has been no requirement

- to apply for a Part 3A permit under this Project Approval.
- (g) Crown and camber are removed following construction
 - (h) Signs indicating the presence of buried pipeline have been erected and were observed during the site visit.

Compliance status:

Compliant.

REHABILITATION

18. The Proponent shall progressively rehabilitate the site to the satisfaction of the Director-General, in a manner that is generally consistent with the landform of the surrounding land.

Evidence sighted:

AGL has reported in the 2007 – 2008 draft AEPR that approximately 117Ha have been rehabilitated to date. Rehabilitation works at different stages were observed during the site visit. Rehabilitation generally appeared in accordance with the EHSMPs.

URS has not viewed any correspondence from the Director-General regarding rehabilitation.

Compliance status:

Compliant.

19. The Proponent shall prepare and implement a Rehabilitation Management Plan to the satisfaction of the Director-General. The Plan shall be submitted to the Director-General within 6 months of the date of this approval and shall:
- (a) identify the areas likely to be disturbed by the project; and
 - (b) describe the measures that would be implemented to rehabilitate the site.

Evidence sighted:

A Clean-up and Rehabilitation Plan is contained in the EHSMP, which was approved by the DoP in 2004. The EHSMP is considered to cover all wells relating to this development consent.

Compliance status:

Compliant.

**SCHEDULE 4
ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS**

OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN (OEMP)

1. The Proponent shall prepare and implement an Operational Environmental Management Plan (OEMP) for the project to the satisfaction of the Director-General. The OEMP shall be submitted to the Director-General prior to commissioning of the project and shall:
 - (a) incorporate the various environmental management plans, monitoring programs and other requirements set out in Schedule 3 of this approval;
 - (b) identify statutory and other obligations that the Proponent is required to fulfil during the operation of the project;
 - (c) describe the environmental policies and principles to be applied to the operation of the project;
 - (d) describe in general how the environmental performance of the project would be monitored and managed;
 - (e) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - manage cumulative impacts; and
 - respond to emergencies (including bushfires); and
 - (f) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the project.

Note: To fulfil this condition, the Proponent may prepare and implement an updated version of the OEMP prepared under Schedule 5 condition 2 of development consent DA-282-6-2003-i, dated 16 June 2004.

Evidence sighted:

The EHSMP for Drilling, Completion and Testing Operations was approved by the DoP in 2004, but has not been updated with the requirements under this Project Approval. These will be included in the new EMP under the EMS.

Compliance status:

Non-compliant.

Recommendation:

Continue developing the new EMS and sub plans. Ensure all the requirements under this Project Approval are included.

INCIDENT REPORTING

2. Within 7 days of detecting an exceedance of the goals/limits/performance criteria in this approval or an incident causing (or threatening to cause) material harm to the environment; the Proponent shall report the exceedance/incident to the Department (and any relevant agency). The report shall:
 - (a) describe the date, time, and nature of the exceedance/incident;
 - (b) identify the cause (or likely cause) of the exceedance/incident;
 - (c) describe what action has been taken to date; and
 - (d) describe the proposed measures to address the exceedance/incident.

Evidence sighted:

According to the incident register no reportable incidents have occurred within the reporting period.

Compliance status:

Compliant.

ANNUAL REPORTING

3. Within 12 months of the date of this approval, and annually thereafter during the life of the project, the Proponent shall prepare an Annual Environmental Performance Report (AEPR) for the project to the satisfaction of the Director-General. The AEPR shall:
 - (a) identify the standards, performance measures and statutory requirements that apply to the project;

- (b) assess the environmental performance of the project to determine whether it is complying with these standards, performance measures, and statutory requirements;
- (c) identify any non-compliance during the year with the conditions of this approval or any standard, performance measure or statutory requirement that applies to the project;
- (d) describe, if any non-compliance is identified, the actions and measures carried out or being carried out to ensure compliance, clearly indicating who would carry out these actions and measures, when they would be carried out, and how the effectiveness of these measures would be monitored over time;
- (e) include a copy of complaints for the year and a description of actions taken or being taken to address registered complaints;
- (f) include a discussion of issues or recommendations raised by the Camden Gas Project's Community Consultative Committee and a description of actions taken or being taken to address these issues or recommendations; and
- (g) include a detailed summary of results of all monitoring required by this approval and a discussion of any significant results, trends or exceptions in these results,

Note: The Proponent may include this report in the Annual Environmental Performance Report required under Schedule 5 condition 5 of development consent DA-282-6-2003-i, dated 16 June 2004. The due date for a combined report shall be the earlier of the due dates for the separate reports.

Evidence sighted:

The 2006 – 2007 AEPR was submitted to the DoP in December 2007 and the 2007 – 2008 AEPR is currently being finalised.

Compliance status:

Compliant.

4. The Proponent shall submit a copy of the AEPR to the DPI, DEC and Council.

Evidence sighted:

Evidence that the most recent AEPR was sent to the Councils, DECC and the DPI was observed, dated 17 December 2007.

The 2006 – 2007 AEPR is available on the AGL website.

Compliance status:

Compliant.

INDEPENDENT ENVIRONMENTAL AUDIT

5. Within 2 years of the date of this approval, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
 - (b) be consistent with *ISO 19011:2002 - Guidelines for Quality and/or Environmental Management Systems Auditing*, or updated versions of these guidelines/manuals;
 - (c) assess the environmental performance of the project, and its effects on the surrounding environment;
 - (d) include a hazard audit of the project in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines"*;
 - (e) assess whether the project is complying with the relevant standards, performance measures and statutory requirements;
 - (f) review the adequacy of the OEMP; and
 - (g) recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.

Evidence sighted:

This audit has included this Project Approval.

Compliance status:

Compliant.

Note: The Proponent may include this audit in the Independent Environmental Audit required under Schedule 5 condition 10 of development consent DA-282-6-2003-i, dated 16 June 2004. The due date for a combined audit shall be the earlier of the due dates for the separate audits.

6. Within 1 month of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General, DPI and DEC, with a response to any of the recommendations contained in the audit report.

Evidence sighted:

Previous to this audit, an audit has not been carried out under this Project Approval.

Compliance status:

Not applicable.

7. Following each Independent Environmental Audit, the Proponent shall review and if necessary revise the OEMP (and any documents contained in the plan), to the satisfaction of the Director-General. The revised OEMP shall be submitted to the Director-General within 6 months of completing the audit.

Evidence sighted:

Previous to this audit, an audit has not been carried out under this Project Approval.

Compliance status:

Not applicable.

COMMUNITY CONSULTATIVE COMMITTEE

8. The Proponent shall ensure that the construction and operation of the project is subject to the consideration of the Camden Gas Project Community Consultative Committee, as established under Schedule 5 condition 17 of development consent DA No. 282-6-2003-I, dated 16 June 2004.

Evidence sighted:

This Project is subject to the Community Consultative Committee.

Compliance status:

Compliant.

ACCESS TO INFORMATION

9. From 31 March 2007, and during the life of the project thereafter, the Proponent shall place a copy of the following documents and information (and any subsequent revisions) required under this approval on its website:
- (a) OEMP;
 - (b) all Independent Environmental Audits;
 - (c) all AEPRs; and
 - (d) a summary of all environmental monitoring results required under this consent (to be updated at least every 6 months).

Evidence sighted:

The approved EHSMPs, the AEPRs and the last Independent Environmental Audit are located in the Archive Library section of the AGL website. In addition a brief environmental monitoring summary is included on the website however this does not include a summary of all environmental monitoring results under this consent.

Compliance status:

Non-compliant.

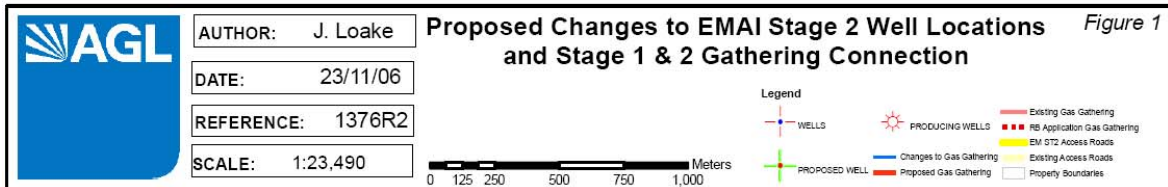
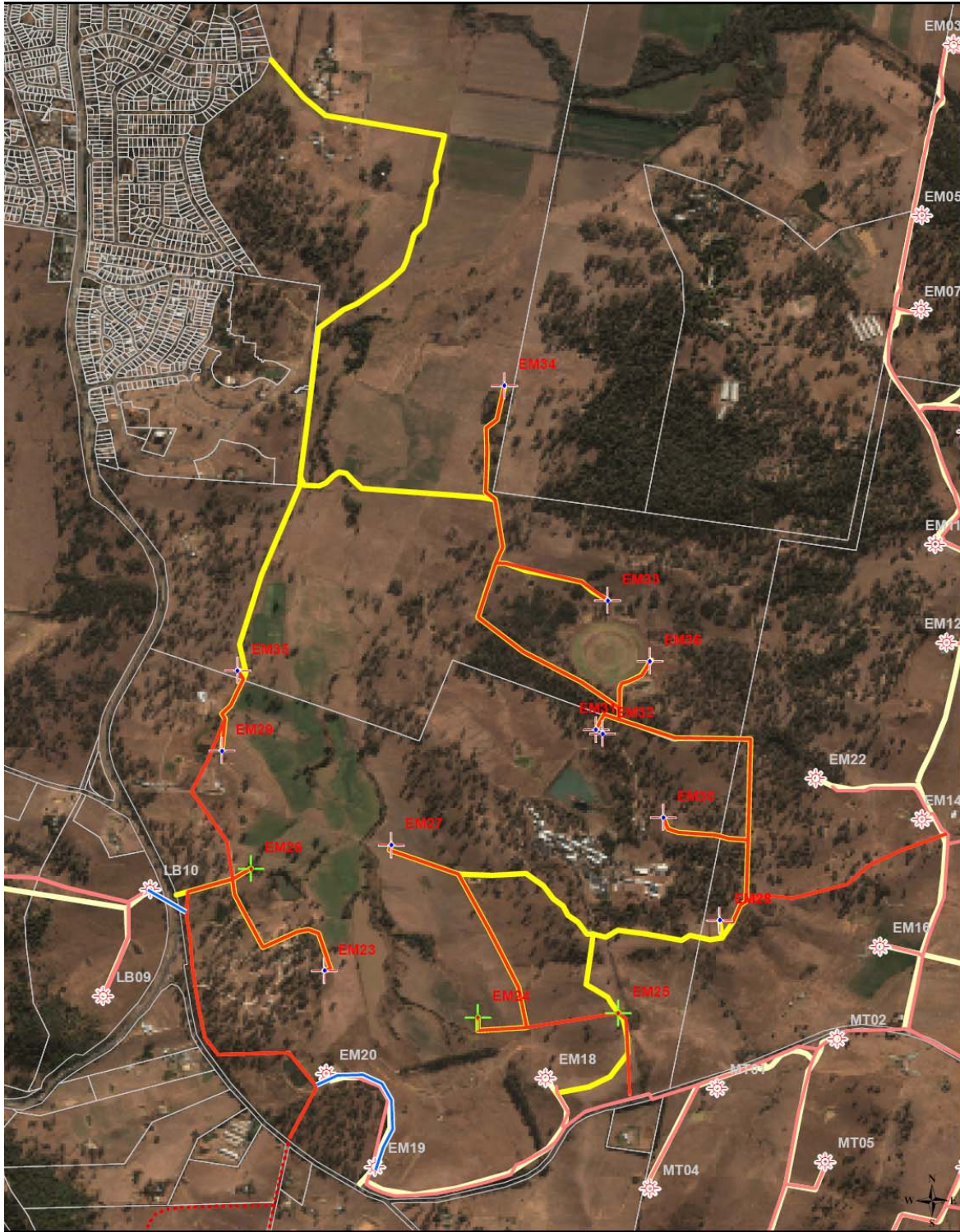
Recommendation:

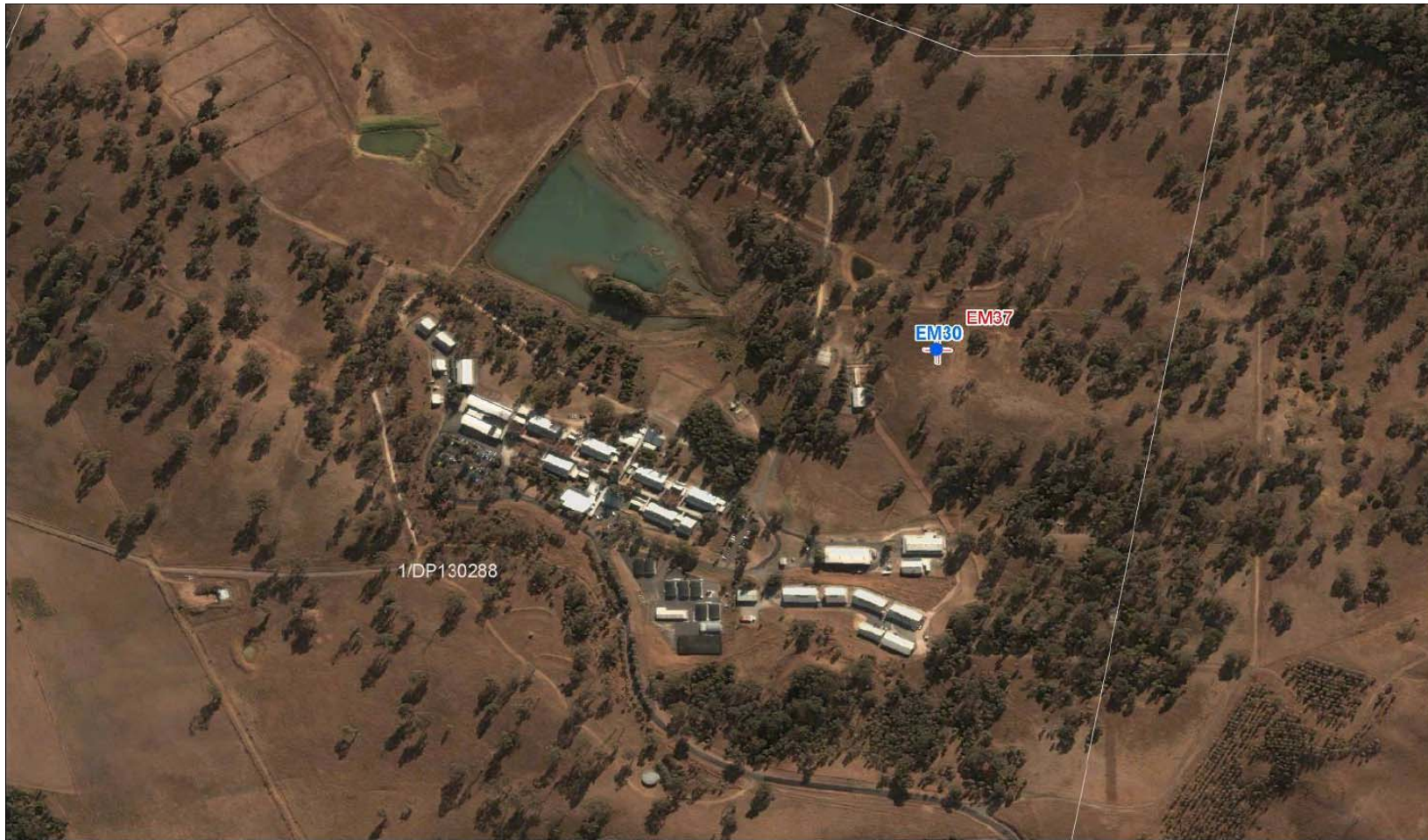
Provide a more detailed summary of monitoring data on the website. This needs to be updated on a six monthly basis.

**APPENDIX 1
SCHEDULE OF LAND**

Property	Facility	Lot and DP Number
Elizabeth Macarthur Agricultural Institute	15 wells and gas gathering lines	Lot 2, DP 1050479 Lot 1, DP 130288 Lot 1, DP 1067320
Logan Brae	gas gathering line	Lot 6 DP 808589 Lot 8, DP 808569
Remembrance Drive	gas gathering line	road reserve of Remembrance Drive

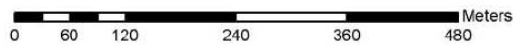
APPENDIX 2 PROJECT AREA








AUTHOR: Courtney Collins
DATE: 23/02/07
REFERENCE: 1445
SCALE: 1:6,325

Project Approval Modification Well EM37 and Property Description



Legend

-  Proposed Surface Location
-  Property Boundaries
-  Surface Location

