

Annual Environment Performance Report 2018-2019

Camden Gas Project







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Document revision history

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19/09/2019	Draft 0	AGL	Draft for Internal Review
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31/10/2019	Final	AGL	Final Version for Distribution



Abbreviations

Abbreviation	Description
AEMR	Annual Environmental Management Report
AEPR	Annual Environmental Performance Report
CCC	Community Consultative Committee
CGP	Camden Gas Project
CoC	Condition of Consent
CSG	Coal Seam Gas
DA	Development Application
DG	Director General
DPI&E	Department of Planning, Industry and Environment
DP&E-RR	Department of Planning and Environment – Resources Regulator
EIS	Environmental Impact Statement
EMAI	Elizabeth Macarthur Agricultural Institute
EMP	Environmental Management Plan
EMS	Environmental Management System
EPA	Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979
EPL	Environment Protection Licence
GGL	Gas Gathering Line
HS&E	Health Safety and Environment
LGA	Local Government Area
NOW	NSW Office of Water
NOX	Nitrogen oxides
NPI	National Pollutant Inventory
OEH	Office of Environment and Heritage
PA	Project Approval
PEL	Petroleum Exploration Lease
POP	Petroleum Operations Plan
PPL	Petroleum Production Lease
RBTP	Ray Beddoe Treatment Plant
RPGP	Rosalind Park Gas Plant
SIS	Surface to-In-Seam
SOX	Sulphur oxides
VLMP	Vegetation and Landscape Management Plan

Executive Summary

This Annual Environmental Performance Report (AEPR) has been prepared to meet the reporting requirements of the NSW Department of Planning, Industry and Environment (DPI&E) and Department of Planning and Environment – Resources Regulator (DP&E-RR). This AEPR covers the AGL Camden Gas Project (CGP) located in the Camden, Campbelltown and Wollondilly Local Government Areas (LGAs) for the period of 01 July 2018 to 30 June 2019.

Reporting Requirements

The purpose of the AEPR is to report in accordance with the CGP's Development Application Approvals and Project Approvals on the following matters:

- The standards, performance measures and statutory requirements the development is required to comply with;
- An assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
- Reporting against the implementation of the Project Commitments Register;
- Copy of the Complaints Register for the preceding twelve-month period and indicating what actions were (or are being) taken to address these complaints;
- Indication of what actions were taken to address any issue and/or recommendation raised by the Community Consultative Committee (CCC);
- Provision of the detailed results of all the monitoring required by each consent;
- Review of the results of this monitoring against:
 - Impact assessment criteria;
 - Monitoring results from previous years;
 - Predictions in relevant environmental assessment documents.
- Identify any non-compliance during the year;
- Identify 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.

Field Development

Field development during this reporting period has been limited with no construction works being undertaken. As part of AGL's commitment to progressively decommission and rehabilitate the field, AGL will not, and has not, drilled new wells during the reporting period. Decommissioning was fully completed (i.e. well is cut and capped) for nine wells (RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21).

Environmental Management & Performance

In 2008 AGL commenced the development of a Project Environmental Management System (EMS) to manage potential environmental aspects associated with CGP activities. As part of this process an Environmental Management Plan (EMP) and Environmental Sub Plans were prepared to facilitate the uniform implementation of environmental management. During this reporting period, the EMP and numerous sub-plans were updated to improve AGL's environmental management and procedures.



Air Pollution

Quarterly stack emissions monitoring results were compliant with the licence concentration limits of EPL 12003 for this period.

Nitrogen Dioxide, Sulphuric Acid Mist and Sulphur Dioxide concentrations were measured at the emission monitoring points of the RPGP and compared to the input data used in the modelling for the air impact assessment. The testing confirmed compliance with air emission limits at the RPGP and therefore compliance at the nearest residence during this reporting period.

There were no exceedances of the EPL 12003 licence limits for any of the assessable annual pollutant loads for the RPGP as reported within the 2018 Annual Return. All assessable pollutants were also reported at below the annual load estimations as predicted in the RPGP Environmental Impact Statement (EIS).

The National Pollutant Inventory (NPI) annual report for the 2018-2019 financial year was submitted on 23 September 2019.

During the reporting period, there were no complaints received regarding dust or other air pollutants.

Erosion & Sediment Control

Activities associated with erosion and sediment controls were compliant for the period with no community complaints received or reportable incidents recorded.

Surface Water

The CGP harvests rainwater from the runoff of all buildings within the RPGP. This water is stored in above ground rainwater tanks and is used to service the RPGP's amenities and wash bay. Once used, the water is separately stored in in-ground tanks as grey water and septic water. A combined total of 325 KL of grey water and septic water was transported off site by licensed contractors for disposal at a licensed facility.

There were no issues identified in relation to surface water for the reporting period.

Groundwater

The total volume of produced water generated has slightly increased from 1,365 KL last reporting period to 1,391.14 KL this period, representing an increase of 1.9%.

There was no produced water reused for well workovers during the reporting period due to the reduced number of workovers and nature of workover activities performed.

Total recycled produced water from well sites and the RPGP has increased from 2,340.92 KL last reporting period to 2,385.23 KL this period.

During this reporting period AGL was compliant with Water Access Licence conditions, Works and Use Approval conditions, and EPL 12003 groundwater reporting requirements.

Waste Management

Waste volumes were recorded for the RPGP during this reporting period which conforms to the relevant conditions of DA 282-6-2003-I. No non-compliances with waste requirements were identified during this reporting period.

Hazardous Materials

Activities associated with hazardous material management were compliant for the period with no reportable incidents recorded or community complaints received.



Activities associated with land contamination or pollution were compliant for the period with no reportable incidents or community complaints received.

Flora & Fauna

No development and/or clearing activities were undertaken with the potential to impact threatened or native flora and fauna. Consequently, activities associated with threatened or native flora and fauna were compliant for the period with no incidents or complaints received.

Noxious Weeds

Activities associated with weed control were compliant for the period with no reportable incidents or community complaints received.

Noise (Operational and Construction)

No exceedances relating to operational noise from the RGP were received during the reporting period. This trend is consistent with previous years. Noise performance is consistent with operational noise predictions in the RGP EIS.

The CGP's operations continued to meet noise requirements during the reporting period.

No complaints were received relating to noise from operations during the reporting period.

Visual Amenity

The Landscape and Lighting Audit Report (September 2014) concluded that the Vegetation and Landscape Management Plan (VLMP) monitoring was correct, in accordance with performance and review objectives, and in a format that is suitable for continued and on-going report monitoring. Based on the performance of the landscape plantings and the findings of the September 2014 audit, the DPI&E has granted AGL an exemption from commissioning an independent Landscape and Lighting Audit in September 2018. The next audit will be completed in September 2020.

Eleven flare events occurred during this reporting period for a combined duration of 763 minutes. This is an increase from the previous AEPR reporting period where five field flare events occurred at the RGP for a total of 224 minutes. This decrease is due to the reduced number of unscheduled shutdowns at the RGP.

Cultural Heritage

There were no activities associated with Aboriginal or European heritage matters and consequently no reportable incidents or community complaints received.

Bushfire

During this reporting period, there were no bushfires on land managed by AGL.

Public Safety

During this reporting period, there were no public safety related reportable incidents recorded.

Safety and Risk Management

During this reporting period, there were no significant safety or risk management related reportable environmental incidents recorded.

Rehabilitation

Quarterly inspections were undertaken at rehabilitated wells EM21, EM28, EM31, EM32, EM33, RP02, RP03, RP04, RP05, RP06, RP10, RP11, RP12, MT05 and WG06 throughout the reporting period. Despite dry weather conditions, rehabilitation works progressed towards achieving the Site-Specific Rehabilitation



Completion Criteria and only minimal weed control and additional reseeding was required across the sites. Site Specific Rehabilitation Completion Criteria was achieved at twelve well sites (MT09, MT10, JS01, JS03, JS04, MT05, LP01, WG06, EM02, EM16, GL10, GL16) during the reporting period.

Environmental Complaints

No community complaints were received during this reporting period. This is consistent with the previous reporting period.

Environmental Non-Compliance Issues and Incidents

Non-conformances with EPL 12003 are reported in the Annual Return to EPA. The 2018 Annual Return for EPL 12003 (covering the period of 22 December 2017 to 21 December 2018) was submitted to the EPA on 13 February 2019 in accordance with the EPL.

There were no non-compliances with the EPL reported within the Annual Return.

On 4 May 2018 two penalty infringement notices were issued to AGL Upstream Investments Pty Limited for alleged breaches of a condition of Petroleum Production Lease 4. The notice was based on an alleged failure to run cement bond logs on wells EM02 and EM04, respectively. Each notice included a \$5,000 fine. On 15 June 2018 AGL requested a review of these notices and specifically, requested that they be withdrawn on the basis that they have been invalidly issued. The notices were withdrawn by the EPA on the 09 August 2018.

In June 2017 the EPA commenced proceedings against AGL Upstream Investments Pty Limited, alleging that AGL had contravened a condition of EPL 12003. The alleged offence relates to a flood event that occurred in early June 2016 and impacted the Camden Gas Project.

As at the date of this report the appeal is ongoing. There is no allegation that environmental harm occurred.

Community Liaison

AGL continues to pro-actively engage with the community to keep residents and interested community members informed of the CGP and ensure that community interests are listened to and addressed. AGL has raised awareness of its activities and maintained positive relations with the community through a range of community engagement initiatives.

A considerable amount of consultation has taken place directly with each landowner. This has provided an understanding of landowner interests and ensured that these interests can be quickly addressed.

A total of two CCC meetings were held and two quarterly updates were provided during this reporting period.

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1. Introduction

1.1. History of the Camden Gas Project

This Annual Environmental Performance Report (AEPR) has been prepared by AGL Upstream Investments Pty Ltd (AGL) to meet the reporting requirements for the period of 1 July 2018 to 30 June 2019 for the Camden Gas Project (CGP).

The CGP is located 65 kilometers (km) south-west of Sydney in the Macarthur region of NSW and consists of 144 gas wells, low-pressure underground gas gathering line's (GGLs), a high-pressure supply line, gas plant facilities and associated infrastructure.

Sydney Gas initially developed the CGP and established the first two Petroleum Production Leases (PPLs) in New South Wales. Exploration activities in the Macarthur region commenced in 1998 and since that time an extensive program of geological surveys and exploration drilling has been completed.

The construction of the Ray Beddoe Treatment Plant (RBTP) and the first successful gas delivery into the former AGL distribution network occurred in May 2001. This progress led to Sydney Gas applying for PPL 1.

Further appraisal led to the addition of three production wells in 2002 under PPL 2, bringing the total of drilled production wells to twenty-five.

Operation of the Rosalind Park Gas Plant (RPGP) commenced under PPL 4 on 16 December 2004 and the project expanded to include PPL 4, PPL 5 and PPL 6.

In February 2007, the RBTP was shut down and the wells were connected to the RPGP. The RBTP was decommissioned, rehabilitated and the land handed back to the landowner during the 2008-2009 reporting period.

In 2008, AGL developed an Environmental Management Plan (EMP) to consolidate the environmental management of the CGP. This plan and selected sub plans were updated during 2012 to improve AGL's environmental management procedures for the CGP. The 2012 EMP was approved by the Director General in July 2012 and implemented. The EMP and numerous sub-plans were updated again in this reporting period.

On 1 April 2009, the CGP changed from a Joint Venture between AGL and Sydney Gas (Camden) Operations to become wholly owned by AGL.

Further to AGL's consolidation efforts, PPLs 1, 2, 4, 5, and 6 were transferred to AGL in November 2010.

As part of the progressive development of the CGP gas field, wells have been drilled and proven in the Logan Brae, Wandinong, Glenlee, Menangle Park, Rosalind Park, Mount Taurus, Razorback, Elizabeth Macarthur Agricultural Institute (EMAI), Sugarloaf, Spring Farm and Kay Park fields.

In February 2013 AGL requested that the then NSW Department of Planning & Environment (DPI&E) suspend its assessment of the proposed Northern Expansion Project of the CGP so that AGL could consider concerns raised by the community.

In February 2016, AGL announced that it will progressively decommission wells and rehabilitate sites at the CGP prior to ceasing production in 2023.



During this reporting period, no new wells were drilled. Decommissioning (i.e. well is cut and capped) of nine wells (RP02, RP10, RP12, GL16, EM31, EM32, EM33, EM28 and EM21) was completed.

1.1.1. Environmental Management Improvements

During this reporting period AGL has maintained a focus on enhanced environmental improvements. Ongoing environmental management improvements have included:

- Continued enactment of the CGP EMS;
- Review and implementation of the updated CGP EMP and associated sub plans;
- Review and implementation of the updated Environmental Aspects and Impacts Register;
- Testing and revision of the Pollution Incident Response Management Plan (PIRMP);
- Implementation of “myHSE” – AGL’s online system for reporting environmental incidents, near misses and hazards;
- Continued monitoring of vegetation rehabilitation completion criteria for rehabilitated wells RP02, RP03, RP04, RP05, RP06, RP10, RP11, RP12, MT05, EM16, EM21, EM28, EM31, EM32, EM33, WG06;
- Continued provision of environmental monitoring data to external stakeholders through the uploading of information to the CGP website;
- Implementation of the Authority to Work form and CM3 Contractor Prequalification to evaluate contractor environmental performance, scope of works and Health, Safety and Environmental Management System prior to engaging contractors to commence work;
- Internal environmental awareness training on Handling Dangerous Goods and Hazardous Substances, Ground Rules for Contaminated Sites, Using Pesticides and Herbicides in the Workplace, Air Quality Management Sub Plan, Environmental Aspects and Impacts Register, AGL Environmental Awareness Module (all employees) and AGL Environmental Legal Obligations (Leaders only);
- Completion of corrective actions from previous Independent Environmental Audits;
- Further implementation of AGL’s compliance management system, CMO; and
- Working in partnership with contracting companies, appropriate authorities and the community to resolve issues and concerns with the CSG industry and ensure a practical and sustainable future for the industry.

1.2. Purpose of Annual Environmental Performance Report

This AEPR has been prepared to meet the reporting requirements of the DPI&E and DP&E-RR for the AGL CGP located in the Camden, Campbelltown and Wollondilly Local Government Areas (LGAs) for the period of 01 July 2018 to 30 June 2019.

The requirements of the DPI&E and DP&E-RR are provided in Section 1.2.1 and 1.2.2 below.

1.2.1. Requirements of the NSW Department of Planning, Industry and Environment (DPI&E)

The requirements for an AEPR are set out in the following Development Consent Conditions:

- DA No. 15-1-2002-i dated 23 July 2002, Schedule 3 Condition of Consent (CoC) No. 34;
- DA No. 246-8-2002-i dated 20 September 2002 Schedule 3 CoC No. 16;
- DA No. 282-6-2003-i dated 16 June 2004, Schedule 5 CoC No. 5;
- DA No. 183-8-2004-i dated 16 December 2004 Schedule 2 CoC No. 24;
- DA No. 9-1-2005 dated 26 May 2005 Schedule 2 CoC No. 42;
- DA No. 75-4-2005 dated 7 October 2005, Schedule 2 CoC No. 54;
- PA No. 06_0137 dated 9 December 2006, Schedule 4 CoC No. 3;



- PA No. 06_0138 dated 9 December 2006, Schedule 4 CoC No. 3; and
- PA No. 06_0291 dated 4 September 2008, Schedule 4 CoC No.3.

In summary, the Development Consents require the preparation of an AEPR within twelve months of the date of the consent, and annually thereafter during the life of the development. As the approval dates vary, the AEPR is prepared on a July to June basis to standardise reporting and to meet the requirements of both the DPI&E and DP&E-RR.

The AEPR is to be submitted to the Director-General and shall include, but not be limited to:

- The standards, performance measures and statutory requirements the development is required to comply with;
- An assessment of the environmental performance of the development to determine whether it is complying with these standards, performance measures, and statutory requirements;
- Reporting against the implementation of the Project Commitments Register;
- A copy of the Complaints Register for the preceding twelve-month period and indicating what actions were (or are being) taken to address these complaints;
- Indication of what actions were taken to address issues and/or recommendations raised by the CCC;
- Provision of the detailed results of the monitoring required by each consent;
- Review of the results of this monitoring against:
 - Impact assessment criteria;
 - Monitoring results from previous years;
 - Predictions in relevant environmental assessment documents.
- Identify non-compliances during the year;
- Identify significant trends in the data; and
- If a 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.

This document has been prepared to address the requirement for an AEPR, for the period of 1 July 2018 to 30 June 2019, pursuant to the above listed Development Application Approvals and Project Approvals.

1.2.2. Requirements of Department of Planning and Environment – Resources Regulator (DP&E-RR)

The requirement for an Annual Environmental Management Report (AEMR) is set out in Clause 3 of PPL 1, 2, 4, 5, and 6 transferred to AGL by the Director-General on 22 November 2010, which states:

The AEMR must:

- Report against compliance with the POP;
- Report on progress in respect of rehabilitation completion criteria;
- Report on the extent of compliance with regulatory requirements; and
- Have regard to any relevant guidelines adopted by the Director-General.

This AEPR has been prepared in accordance with clause 3 of PPL 1, 2, 4, 5 and 6 and the DP&E-RR guideline EDG03 '*Guidelines to the Mining, Rehabilitation and Environmental Management Process (Version 3, 2006)*'.



Where information required under a heading in EDG03 is not applicable to the CGP, the heading has been kept and the applicability stated. Some documents required by DP&E-RR EDG03 guideline (e.g. 'Plan 3 Land Preparation', 'Plan 4 Proposed Mining Activities') are not relevant to the operation of the CGP or its annual reporting, and hence have been excluded from this AEPR.

A plan showing the locations of the PPLs is included as Appendix A.

1.3. Format of the Annual Environment Performance Report

This AEPR is formatted as follows:

- **Section 1:** Introduction - Provides an introduction and background of the AEPR and its history;
- **Section 2:** Camden Gas Project Area Details – Provides the projects details and relevant contacts;
- **Section 3:** Environmental Standards, Performance Measures and Statutory Requirements - Lists the environmental regulatory performance requirements relevant to the CGP;
- **Section 4:** Operations within the Reporting Period - Describes the operations during the reporting period;
- **Section 5:** Environmental Management and Performance - Outlines the environmental management and performance of the CGP for the period;
- **Section 6:** Rehabilitation - Describes the rehabilitation undertaken within the CGP during the reporting period;
- **Section 7:** Project Commitments Register - Provides an update to the Project Commitments Register (Compliance Register);
- **Section 8:** Stakeholder Engagement - Describes the stakeholder engagement that has been undertaken during the reporting period; and
- **Section 9:** Summary of Environmental Non-Compliance Issues and Actions – Describes the non-conformances identified and actions to address non-conformances for the reporting period.



2. Camden Gas Project Area Details

2.1. Project Details and Contacts

A map of the CGP and its PPL locations is contained in Appendix A. The details of each property or area of the CGP are provided in Appendix B. The CGP infrastructure map for works undertaken during this reporting period is provided in Appendix C.

A list of project details and contacts as required by EDG03 is provided in Table 2-1.

Table 2-1: Project Details and Contacts

Project Details	
Project Name	Camden Gas Project
Titles / Consents	Refer to Table 3-1
Expiry Date of Titles / Consents	Refer to Table 3-2
Titleholder	AGL Upstream Investments Pty Limited
Operator	AGL Upstream Investments Pty Limited
Project Manager Details	
Contact Name	Shane Bottin
Position	Operations Superintendent
Contact Address	AGL Rosalind Park Gas Plant Lot 35, Medhurst Road, Menangle NSW 2568
Telephone	02 4633 5200
Facsimile	02 4633 5201
Email	sbottin@agl.com.au
Reporting Officer Details	
Contact Name	David Mudd – Environment Business Partner
Contact Address	AGL Rosalind Park Gas Plant Lot 35, Medhurst Road, Menangle NSW 2568
Telephone	02 4633 5200



Facsimile	02 4633 5201
Email	dmudd@agl.com.au
Other Contact Details	
24-hour hotline	1800 039 600
POP and AEMR Reporting Periods	
POP (Version 11.1) Commencement Date	17 August 2018
POP (Version 11.1) End Date	30 June 2019 (DP&E-RR extended to 17 July 2019)
AEMR Commencement Date	July 2018
AEMR Period End Date	June 2019



3. Environment Standards, Performance Measures and Statutory Requirements

This section provides a list of the environmental regulatory requirements relevant to the CGP for the reporting period.

3.1. Consents, Leases and Licences

Seven Development Applications (DAs), three Project Approvals and one Concept Plan Approval have been approved for the CGP under the Environmental Planning and Assessment Act 1979 (EP&A Act). During the reporting period, there were no modifications to existing Development Applications or Project Approvals. Table 3-1 provides a description of the activities for which each of the DAs and Project Approvals has been issued.

Table 3-1 Activities described by approved Development Applications

Development Application No.	Description of Proposed Development
DA No. 15-1-2002i, dated 23 July 2002	<p>The Minister for Planning (DPI&E) determined the development application for Stage 1 in accordance with Section 76A, Section 80, and Section 91 of the <i>Environmental Planning and Assessment Act 1979</i> by granting consent to the proposed development referred to as "The Camden Gas Project Stage 1". The Conditions of Development Consent for DA No. 15-1-2002i-I dated 23 July 2002 relate to the Camden Gas Project Stage 1 (the 'Development') issued to Sydney Gas Operations Ltd. The Development Consent describes the Development as:</p> <ul style="list-style-type: none"> - "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; - Production of up to 93,000 GL/month from the treatment plant; - Sale and distribution of gas to the AGL gas network; and - Operation of the existing site office and pipe yard depot."
	<p>A modification to this DA, dated 16 May 2006, was issued for the following:</p> <ul style="list-style-type: none"> - "Construction, drilling and operation of a directional well from LB09".
	<p>A modification to this DA, approved 9 February 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "re-drilling of wells Apap 01 and Mahon 01."
	<p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "construction, drilling and operation of 2 surface to in-seam wells (AP02/AP03) at AP01".
	<p>A modification to this DA, dated 4 August 2008, was issued for the Kay Park and Loganbrae gas gathering line modification project.</p>
	<p>The Minister for the then NSW Department of Infrastructure, Planning and Natural Resources (now) determined the development application in accordance with Section</p>

Development Application No.	Description of Proposed Development
DA-246-8-2002i – dated 20 September 2002	<p>80 of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Development Consent for DA No. DA-246-8-2002i dated 20 September 2002, relate to the Camden Gas Project Stage 1 (the 'Development'). The Development Consent describes the proposed development as:</p> <ul style="list-style-type: none"> - "The connection of 3 existing wells (KP1, KP2, and KP3) to the Ray Beddoe Treatment Plant, and the continued production and sale of methane gas from the 3 wells. <p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "construction, drilling and operation of 2 surface to in-seam wells (KP05 and KP06) at KP01". <p>A modification to this DA, dated 4 August 2008 was issued for the Kay Park and Loganbrae gas gathering line modification project.</p> <p>A modification to this DA, dated 3 December 2008 was issued for the construction and operation of one Surface SIS well (KP05) and one directional well (KP06) from KP01.</p> <p>A modification to this DA, dated 20 April 2011, was issued for the construction, drilling and operation of 2 surface to in-seam wells (KP05 and KP06).</p>
DA No. 282-6-2003-i – 16 June 2004	<p>The then Minister for Urban Affairs and Planning (now DPI&E) determined the development application for Stage 2 in accordance with Section 76A, Section 77A, and Section 91 of the <i>Environmental Planning and Assessment Act 1979</i> by granting consent to the proposed development referred to as "The Camden Gas Project Stage 2". The Conditions of Development Consent (reference 112467721) for DA No. 282-6-2003-i dated 16 June 2004 relate to the Camden Gas Project Stage 2 (the 'Development') issued to Sydney Gas Operations Ltd. The Development Consent describes the Development as:</p> <ul style="list-style-type: none"> - "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, associated workshop and office facilities; and - Production of up to 14.5 petajoules per annum from the gas treatment plant." <p>A modification to this DA, dated 26 August 2004, was issued to include additional land that was omitted from the development consent.</p> <p>A modification to this DA, dated 01 February 2005, was issued to amend an access road and gathering line route on the EMAI.</p> <p>A modification to this DA, was issued, dated 01 June 2005.</p>

Development Application No.	Description of Proposed Development
	<p>A modification to this DA, dated 16 May 2006, was issued for the following:</p> <ul style="list-style-type: none"> - "Construction, drilling and operation of 1 directional well from GL7 and 2 directional wells from GL10".
	<p>A modification to this DA, approved 22 October 2006, was issued for the following:</p> <ul style="list-style-type: none"> - "Construction, drilling and operation of 1 directional well (GL16) from GL7 and 1 directional well (GL15) and 1 Surface to in-seam well (GL14) from GL10"
	<p>A modification to this DA, approved 1 November 2006, was issued for the following:</p> <ul style="list-style-type: none"> - "construction, drilling and operation of 1 directional well (GL16) from GL7 and 2 Surface to in-seam wells (GL14 and GL15) from GL10."
	<p>A modification to this DA, approved 2 May 2007 was issued for the following:</p> <ul style="list-style-type: none"> - relocation of the Rosalind Park Gas Plant access road.
	<p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "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"
	<p>A modification to this DA, dated 11 April 2008, was issued for the following:</p> <ul style="list-style-type: none"> - "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>A modification to this DA, dated 16 March 2009, was issued for the construction of an access road to the existing RP09 gas well and the twinning of a small section of the existing gas gathering line between RP08 and the RPGP.</p>
	<p>A modification to this DA, dated 18 September 2009, was approved for the re-routing of a damaged gas gathering line at Glenlee.</p>
	<p>A modification to this DA, dated 25 November 2010, was issued for the modification of RPGP noise monitoring requirements, air emission concentration limits and waste storage and generation volumes.</p>
	<p>A modification to this DA, dated 27 March 2017, was issued to delete:</p> <ul style="list-style-type: none"> - conditions 48, 49, 51, 54, 55, 58, 68, 72, 103 and 104 of Schedule 4; - conditions 12, 13, 14 and 15 of Schedule 4; - Schedule 6; and - Schedule 8. <p>This modification was made in response to recommendations from previous Independent Environmental Audits to remove inconsistencies between DA 282-6-2003-I and EPL 12003.</p>

Development Application No.	Description of Proposed Development
DA-183-8-2004i – 16 December 2004	<p>The then Minister for the NSW Department of Infrastructure, Planning and Natural Resources (now DPI&E) determined the development application in accordance with Section 80 of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Development Consent for DA No. DA-183-8-2004i dated 16 December 2004 relate to the Camden Gas Project Stage 2 (the 'Development'). The project involves the following:</p> <ul style="list-style-type: none"> - 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.
	<p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "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."
	<p>A modification of this DA (DA 183-8-2004i - Mod 2), dated the 9 July 2012, was issued for the following:</p> <ul style="list-style-type: none"> - "Construction, drilling and operation of 1 Surface to in-seam well (MP25) adjacent to MP16 and upgrading (twinning) of the gas gathering line between MP16 and MP13/30."
DA 9-1-2005 – 26 May 2005	<p>The Minister for the NSW Department of Infrastructure, Planning and Natural Resources (now DPI&E) determined the development application in accordance with Section 80 of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Development Consent for DA No. DA-9-1-2005 dated 26 May 2005, relate to the Camden Gas Project Stage 2 (the 'Development'). The Development Consent describes the proposed development as:</p> <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."
	<p>A modification to this DA, dated 16 May 2006, was issued for the following:</p> <ul style="list-style-type: none"> - "Construction, drilling and operation of a directional well from each of GL02 and GL11."
	<p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "upgrading (twinning) of the gas gathering line between GL02 and GL05."
	<p>A modification to this DA, dated 16 November 2010, was issued for the following:</p> <ul style="list-style-type: none"> - modification of Schedule 2, Condition 26 to allow pasture species used in well site rehabilitation to be selected in consultation with the landowner.
DA 75-4-2005 – 07 October 2005	<p>The then Minister for the NSW Department of Infrastructure, Planning and Natural Resources (now DPI&E) determined the development application in accordance with Section 80 of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Development Consent for DA No. DA-75-4-2005 dated 07 October 2005 relate to</p>

Development Application No.	Description of Proposed Development
	<p>the Camden Gas Project Stage 2 (the 'Development'). The Development Consent describes the proposed development as:</p> <ul style="list-style-type: none"> - "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." <p>A modification to this DA, dated 4 July 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "construction and drilling of 9 wells, including 2 Surface to in-seam wells (SL08 and SL09) at SL03." <p>A modification to this DA, dated 10 January 2010, was approved for the twinning of a gas gathering line from well surface locations SL03 and SL09 to the Rosalind Park Gas Plant.</p>
Project Approval 06_0137 – 9 December 2006	<p>The then Minister for Planning approved the Project under Section 75J of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Consent for Project Approval 06_0137 dated 9 December 2006 relate to the Razorback Wells (RB03-RB12). The project involves the following:</p> <ul style="list-style-type: none"> - Construction and drilling of wells RB03-RB12 and gas gathering lines.
Project Approval 06_0138 – 9 December 2006	<p>The then Minister for Planning approved the Project under Section 75J of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Consent for Project Approval 06_0138 dated 9 December 2006 relate to the Elizabeth Macarthur Institute Wells (EM23-EM36). The project involves the following:</p> <ul style="list-style-type: none"> - Construction and drilling of wells EM23-36 and gas gathering lines. <p>A modification to this Approval, dated 6 August 2007, was issued for the following:</p> <ul style="list-style-type: none"> - "One additional directional well at an existing well, changing an approved but not yet constructed well to a directional well, connection of the wells to the existing gas gathering system and production of coal seam methane gas."
Project Approval 06_0291 – 4 September 2008	<p>The then Minister for Planning approved the Project under 75J of the <i>Environmental Planning and Assessment Act 1979</i>. The Conditions of Consent for Project Approval 06_0291 dated 4 September 2008 relate to the Spring Farm and Menangle Park wells. The project involves the following:</p> <ul style="list-style-type: none"> - Construction and drilling of wells and gas gathering lines in the Spring Farm and Menangle Park area. <p>Modifications to this PA were issued 7 January 2011 and 20 April 2011 to include gas gathering lines MP06 – 11 and MP11 – MP23 (via MP19), and, MP03-05 and MP22 – SL02 respectively.</p>
Concept Plan Approval 06_0292 – 4 September 2008	<p>The then Minister for Planning approved the Project under 75O of the <i>Environmental Planning and Assessment Act 1979</i>.</p>



Development Application No.	Description of Proposed Development
	<p>The Conditions of Consent for Project Approval 06_0292 dated 4 September 2008 relate to the Spring Farm and Menangle Park wells. The project involves the following:</p> <ul style="list-style-type: none"> - Construction and operation of coal seam methane gas wells and associated infrastructure within the Stage 2 Concept Plan area of the Camden Gas Project.

The standards, performance measures and statutory requirements the CGP is required to comply with are outlined in the consents, leases and licences for the CGP. A list of the relevant consents, leases and licences is contained in Table 3-2. The standards, compliance levels and regulatory requirements resulting from the consents, leases and licences are identified for each matter reported in Section 5 Environmental Management and Performance of this AEPR.

Table 3-2 Consents, Leases and Licences

Title	Grant Date and Term
Petroleum Exploration Licence No.2 (PEL), issued by the Department of Mineral Resources (now DP&E-RR)	AGL has previously surrendered PEL 2.
PPL No.1, issued by the Department of Mineral Resources (now DP&E-RR)	2 September 2002 (for a period of 21 years - the lease holder shall relinquish areas where no wells have been drilled within 10 years of granting this lease)
PPL No.2, issued by the Department of Mineral Resources (now DP&E-RR)	10 October 2002 (for a period of 21 years)
PPL No.4, issued by the Department of Mineral Resources (now DP&E-RR)	6 October 2004 (for a period of 21 years)
PPL No.5, issued by the Department of Mineral Resources (now DP&E-RR)	28 February 2007 (for a period of 21 years)
PPL No. 6, issued by the Department of Industry and Investment (now DP&E-RR)	29 May 2008 (for a period of 21 years)
Conditions of Consent for DA 15-1-2002i (file no. S00/00945), issued by the DPI&E. The requirements of the Environment Protection Licence 12003 have been incorporated into relevant conditions of consent	<p>23 July 2002 (for a period of 21 years from date of granting of the production lease).</p> <p>If after 5 years of the date of this consent any well that is subject of this consent has not yet been drilled or completed, then the applicant shall surrender the approval for that well.</p>

Title	Grant Date and Term
	<p>The following modifications have been issued to this DA:</p> <ul style="list-style-type: none"> - modification dated 16 May 2006 - modification dated 9 February 2007 - modification dated 4 July 2007 - modification dated 4 August 2008
<p>Conditions of Consent for DA 246-8-2002i (file no. S02/01615), issued by the DPI&E</p>	<p>20 September 2002 (for a period of 21 years from date of granting of the production lease).</p> <p>The following modifications have been used to this DA:</p> <ul style="list-style-type: none"> - modification dated 4 July 2007 - modification dated 4 August 2008 - modification dated 3 December 2008 - modification dated 20 April 2011
<p>Conditions of Consent for DA 282-6-2003-i, issued by the DPI&E. The requirements of the Environment Protection Licence 12003 and 3A Permit have been incorporated into this Condition of Consent.</p>	<p>16 June 2004 (for a period of 21 years).</p> <p>The following modifications have been issued to this DA:</p> <ul style="list-style-type: none"> - modification dated 26 August 2004 - modification dated 01 February 2005 - modification dated 01 June 2005 - modification dated 16 May 2006 - modification dated 22 October 2006 - modification dated 1 November 2006 - modification dated 2 May 2007 - modification dated 4 July 2007 - modification dated 11 April 2008 - modification dated 16 March 2009 - modification dated 18 September 2009 - modification dated 25 November 2010 - modification dated 27 March 2017
<p>Conditions of Consent for DA-183-8-2004i, issued by the DPI&E</p>	<p>16 December 2004 (for a period of 21 years).</p> <p>A notice of modification was issued on the 4 July 2007.</p> <p>A notice for modification was issued on the 9 July 2012</p>
<p>Conditions of Consent for DA 9-1-2005, issued by the DPI&E</p>	<p>26 May 2005 (for a period of 21 years).</p> <p>The following modifications have been issued to this DA:</p> <ul style="list-style-type: none"> - modification dated 16 May 2006 - modification dated 4 July 2007 - modification dated 16 November 2010

Title	Grant Date and Term
Conditions of Consent for DA 75-4-2005, issued by the DPI&E	07 October 2005 (for a period of 21 years or expiry date of PPL No.4) The following modifications have been issued to this DA: - modification dated 4 July 2007 - modification dated 10 January 2010
Conditions of Consent for DA 171-7-2005, issued by the DPI&E	25 March 2006 (for a period of 21 years or expiry date of PPL No.4)
Conditions of Approval for PA 06_0137, issued by the DPI&E	9 December 2006 (for a period of 21 years or expiry date of PPL No.4)
Conditions of Approval for PA 06_0138 issued by the DPI&E	9 December 2006 (for a period of 21 years or expiry date of PPL No.4) A notice of modification was issued on the 6 August 2007.
Conditions of Approval for PA 06_0291 issued by the DPI&E	4 September 2008 (for a period of 21 years or expiry date of PPL No.5) The following modifications have been issued to this PA: - modification dated 7 January 2011 - modification dated 20 April 2011
Conditions of Approval for Concept Plan Approval 06_0292 issued by the DPI&E	4 September 2008 (for a period of 5 years)
Environment Protection Licence No.12003, issued by the Environment Protection Authority (>0.5 – 6PJ Produced)	Issued 22 December 2004, anniversary date 22 December. During the reporting period, the licence was varied on 14 December 2017 (Notice #1558481) and 21 December 2017 (Notice #1560094).
Petroleum Operations Plan (POP) Version 10	06 March 2017 – 30 June 2018 (DP&E-RR extended to 31 August 2018).
Pipeline Licence No.30, issued by Department of Energy, Utilities and Sustainability, under NSW <i>Pipelines Act 1987</i>	19 May 2004 (for a period of 20 years)
Water Access Licences, (WAL25054, WAL24856, WAL24736 and WAL24965) and associated Works and Use Approvals	Various



3.1.1. SafeWork NSW Notification of Storage of Hazardous Chemicals

There is no requirement to notify SafeWork NSW regarding the storage of Hazardous Chemicals (Dangerous Goods) at the RPGP due to the minor quantities of Hazardous Chemicals stored on site.



4. Operations within the Reporting Period

This section provides a description of the operations undertaken for the CGP for the reporting period and the status as of June 2019.

4.1. Description of Operations from July 2018 to June 2019

4.1.1. Development / Construction

During the reporting period development associated with the CGP comprised of the following:

Drilling

No new wells were drilled in this reporting period.

Decommissioning

During this reporting period, decommissioning was completed (i.e. well is cut and capped) for nine wells (RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21).

The locations of the existing wells and the decommissioned wells are illustrated in Appendix C.

Gathering Line Installation

No new sections of gas gathering line were installed during this reporting period.

Workover Maintenance Activities

The following workover activities took place during this reporting period.



Table 4-1: Description of Workover Maintenance Activities

PPL	Well Name	Date Workover Conducted	Description of Activities
PPL1	EM34	Jul/Aug 2018	Obstruction Removal (fishing)
PPL4	WG03	Sept 2018	Clean out well, logging and recompletion
PPL4	RB06	Sept 2018	Clean out well and recompletion
PPL4	GL17	Mar 2019	Clean out well and recompletion
PPL4	SL03	Apr 2019	Clean out well and recompletion
PPL4	MT06	Apr 2019	Clean out well and recompletion
PPL4	SF05	May 2019	Clean out well and recompletion
PPL5	MP10	May/June 2019	Clean out well and recompletion
PPL4	MP05A	Jun 2019	Linear removal

Rosalind Park Gas Plant Compressors

The RPGP compressors operated during the reporting period for:

- Compressor No.1 operated for 6485 hours;
- Compressor No.2 operated for 2402 hours; and
- Compressor No.3 operated for 2167 hours.

Land Access and Approvals

No Environmental Protection License variations to EPL 12003 have been submitted during the reporting period.

No Development Applications have been applied for, granted or modified during this reporting period.

Current Status of Well Operations

The status of CGP well operations as of 30 June 2019 is summarised in Appendix D. The only amendment from the previous reporting period is the decommissioning of nine wells (RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21).

4.1.2. Exploration

AGL relinquished Petroleum Exploration Licence 2 in July 2015. No exploration activities were undertaken during this reporting period and there will be no further exploration activities across the CGP.



4.1.3. Production

Production information is provided to the DP&E-RR on a monthly basis. These monthly production reports include monthly production volumes from each well in the PPLs and total gas flow rates into the RPGP.

4.1.4. Land Preparation

No wells were drilled during this reporting period.

Surface rehabilitation works for the nine decommissioned wells (RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21) was undertaken in consultation with the landowner DP&E-RR and EPA.

4.1.5. Mining, Mineral Processing and Ore Production Stockpiles

The CGP produces coal seam gas. No mining, mineral processing or ore stockpiling is undertaken. Hence, this section is not applicable to AGL's operations at the CGP.

4.1.6. Other Infrastructure Management

There were no infrastructure improvement works completed during the reporting period.

4.1.7. Production and Waste Summary

A summary of waste produced is included in Section 5.7.

4.1.8. Water Management

A summary of water management is included in Section 5.5 and 5.6 of this report.

4.1.9. Hazardous Material Management

A summary of hazardous material management for the reporting period is included within Section 5.8 of this report.



5. Environmental Management and Performance

This section of the AEPR outlines the environmental management and performance of the CGP for the reporting period. Where environmental monitoring is required by the Conditions of Consent for the development, the monitoring requirement and results are discussed under the relevant sections headings. The specific environmental control measures, conditions of consent or monitoring requirements are provided within each EMP Sub Plan.

This section documents the implementation and effectiveness of control strategies for environmental risks identified in the EMP and previous AEPR.

5.1. Overview of Environmental Management

CGP Environmental Management Plan (EMP)

In 2008 AGL commenced the development of a Project Environmental Management System (EMS) to manage potential environmental aspects associated with CGP activities. As part of this process an Environmental Management Plan (EMP) and Environmental Sub Plans were prepared to facilitate the implementation of environmental management. The EMP was revised in March 2019, improving AGL's environmental management and procedures. A full copy of the EMP and all Sub Plans is available on the CGP website.

The EMP Sub Plans are listed below, with plans updated during this reporting period noted accordingly:

- Flora and Fauna Management (June 2019);
- Soil and Water Management (June 2019);
- European Heritage Management (June 2019);
- Rehabilitation and Landscape Management (June 2019);
- Aboriginal Cultural Heritage Management (December 2013);
- Air Quality Management (June 2019);
- Waste Management (June 2019);
- Traffic Management (June 2019);
- Dangerous Goods and Hazardous Materials Storage (June 2019);
- Groundwater Management Plan (July 2018);
- Noise Management Sub Plan (July 2019); and
- Emergency Response (June 2018).

EMP Sub Plan Compliance Audits have been developed to enable in-house compliance assessments of each Sub Plan. During the reporting period, in-house compliance assessments were completed against the following EMP Sub Plans:

- Soil and Water Management (November 2018);
- Traffic Management (April 2019);
- Rehabilitation and Landscape Management (March 2019);
- Noise Management (March 2019);
- Waste Management (October 2018);
- Air Quality Management (September 2018); and
- Flora and Fauna Management (December 2018).



Pollution Incident Response Management Plan

In November 2012, AGL prepared a Pollution Incident Response Management Plan (PIRMP) for the CGP in response to an amendment to the *Protection of the Environment Operations Act 1997* (POEO Act). During the reporting period, the PIRMP was reviewed and updated in November 2018. The PIRMP has since been reviewed and updated in October 2019.

The PIRMP details the procedures for the notification of pollution incidents causing, or having the potential to cause, material harm to the environment. The notification of environmental incidents under the PIRMP is only required for those incidents causing or threatening to result in material harm to the environment (a material harm incident) as defined in the POEO Act. During the reporting period, AGL undertook a mock drill of the PIRMP.

All other incidents deemed by AGL not to be causing or threatening to cause material harm to the environment will be managed through AGL’s Emergency Response Plan and supporting procedures. In situations where notification of environmental harm is required under a condition of Camden’s EPL 12003 or a development consent, AGL will report the incident to the relevant authority in accordance with the requirements of the relevant condition.

Petroleum Operations Plan

As required under PPLs 1, 2, 4, 5 and 6, AGL conducts its production operations in accordance with an approved POP. Version 11.1 of the POP applied to the period 17 August 2018 through to 30 June 2019 and was approved by the DP&E-RR in August 2018.

The POP is reviewed annually, and subsequent versions are provided to the DP&E-RR for approval. Version 12 of the POP was drafted during the reporting period and sent to the DP&E-RR for review. On 28 June 2019, the DP&E-RR granted an extension to Version 11.1 of the POP until 17 July 2019, to enable sufficient time for the assessment and approval of Version 12 of the POP. Version 12.1 of the POP was approved by the DP&E-RR after the reporting period and applies through until 30 June 2020.

The POP summarises the general processes and stages of petroleum operation at the CGP. The sections of the POP are summarised below, and where applicable, referenced to relevant sections of this AEPR.

Table 5-1: POP Commitments Referenced in this AEPR

POP Section	Aspect of Operations	Petroleum Activity	Relevant AEPR Section(s)
2.1	Production Operations	Construction	4.1.1
		Production	4.1.3
		Maintenance (Workover)	4.1.1
		Produced Water Management	5.6
		Rehabilitation and Final Closure	6.1 – 6.6

POP Section	Aspect of Operations	Petroleum Activity	Relevant AEPR Section(s)
2.2	Surface Infrastructure	Wells	4.1.1; 4.1.2; Appendix D
		Gas Gathering Lines	4.1.1
		Access Roads	6.1.4
		Gas Plant	4.1.1
3	Environmental Management and Rehabilitation	Rehabilitation	6.1 – 6.6

5.2. Actions Required by Regulatory Authorities from Previous AEPR Review

The DPI&E provided comments on the 2017-18 AEPR on 12 December 2018. The DPE-RR provided comments on the 2017-18 AEPR on 12 February 2019 and the 15 April 2019. AGL responded to the DP&E-RR comments on 28 February 2019. A summary of DPI&E comments and AGL’s response are provided in Appendix L.

5.3. Air Pollution

5.3.1. Air Pollution management

Air emissions associated with the CGP are primarily oxides of nitrogen (NO_x) and oxides of sulphur (SO_x) associated with compression of the coal seam gas, and to a lesser extent vehicle emissions. Other air emissions include potential dust emissions associated with construction activities and vehicle movements and fugitive emissions from production operations.

Management of air emissions is summarised in the CGP Air Quality Management Sub Plan (AQMSP). The objective with regards to air quality is to prevent or minimise air pollution by:

- Controlling the quality and minimising the quantity of air emissions associated with compression of the coal seam gas resource;
- Minimising the quantity of vehicle exhaust emissions;
- Minimising dust generation during construction, maintenance and operations and rehabilitation activities; and
- Reporting uncontrolled air emissions and implementing corrective actions promptly.

Targets relating to air quality management are identified in the AQMSP as follows:

- Zero exceedances of the in-stack and ambient licence limits to controlled air emissions.
- Zero incidents or complaints received regarding uncontrolled air emissions.

Control measures used to meet the objectives for air quality are contained in the CGP AQMSP.



5.3.2. Air Quality Criteria and Monitoring Requirements

Rosalind Park Gas Plant – DA-282-6-2003-I and EPL 12003

Development Consent DA-282-6-2003-i, Schedule 4 CoC 47 and EPL 12003 (L3 and M2) specifies requirements to monitor air quality at the RPGP and air emission criteria.

EPL 12003 (L2) stipulate load limits for assessable pollutants that must not be exceeded during the reporting period from the RPGP.

Construction and Field Operations – Dust

A number of development consents stipulate requirements relating to dust management. These are detailed in the AQMSP.

5.3.3. Air Quality Monitoring Results

Quarterly monitoring reports for the RPGP were prepared by Ektimo:

- Quarterly Stack Emission Survey, 18, 19, 20 September 2018;
- Quarterly Stack Emission Survey, 27 and 29 November 2018;
- Quarterly Stack Emission Survey, 12 and 13 March 2019; and
- Quarterly Stack Emission Survey, 10 May, 18 and 21 June 2019.

Monitoring results for the 2018 Annual Return period are provided in Appendix G. All quarterly monitoring results were compliant with the licence concentration limit conditions of the current EPL 12003 for this period.

Rosalind Park Gas Plant – Air Emissions at Residences (Schedule 4, CoC 47)

Ektimo undertook emission testing at the RPGP in accordance with the air pollutant criteria stipulated in DA 282-6-2003-I, Schedule 4, CoC 47.

Nitrogen Dioxide, Sulphuric Acid Mist and Sulphur Dioxide concentrations were measured at the emission points and compared to the input data used in the modelling for the air impact assessment. The testing confirmed compliance with input data used in the modelling for the air impact assessment and therefore compliance at the nearest residence during this reporting period.

Rosalind Gas Plant – Assessable Pollutants and Air Concentration Limits

Under EPL 12003 for the RPGP, AGL is required to meet load limits for assessable pollutants plus calculate the annual pollutant loads and associated fees. Monitoring to enable the annual pollutant loads to be calculated was conducted quarterly by Ektimo and continuously by AGL with the results included in the 2018 Annual Return (summarised in Appendix G and Appendix H). In addition to this, the EPL requires the monitoring of air concentration levels at discharge points for which the concentration of the pollutant must not exceed, which is monitored quarterly and continuously.

No exceedances of the pollutant load limits, or exceedances of air concentration limits, were reported within the 2018 Annual Return.

Rosalind Park Gas Plant – Continuous Monitoring

The EPL 12003 Condition M2.3 requires continuous monitoring of NO_x, temperature, moisture, flow rate, and oxygen at Point 1 at all times when the compressor is operating. No exceedances of the limits within EPL 12003, Condition L3.1, were recorded in continuous monitoring monthly reports during the period.



National Pollutant Inventory Reporting

The National Pollutant Inventory (NPI) Report for the RGP for the 2018-2019 financial year was prepared and submitted on 23 September 2019. The NPI lists the fuel and energy usage plus emissions data for the RGP for the financial year.

Construction and Field Operations – Dust Monitoring

During construction and field operations, various measures are implemented to avoid or ameliorate dust generation including reduced travelling speeds on unsealed roads and use of water carts to suppress dust. Visual assessment of dust conditions are undertaken by site personnel during construction and field operations.

No complaints were received regarding dust during the reporting period.

5.3.4. Air Pollution Environmental Performance / Trends

RGP Quarterly Stack Emissions Monitoring

Quarterly stack emissions monitoring results were compliant with the licence concentration limits of EPL 12003 for this reporting period. Air emission monitoring methodology complies with EPL 12003 Condition M2.2.

RGP Assessable Pollutant and Air Concentration Limits

The following pollutants are assessable emissions from the RGP for which limits of the pollutants annual load or its air concentration is stipulated by the EPL 12003. The annual assessable pollutant loads are calculated and reported within the EPL Annual Return.

The assessable pollutants and air concentration limits for this reporting period are:

- **Benzene** - Benzene is an assessable pollutant, measured annually to calculate the annual pollutant loads and associated fees under EPL 12003. For the 2018 Annual Return the calculated annual load for benzene was 26.787 kg/year, which is well below the limit of 47 kg/year as required by EPL 12003. This represented an increase from the previous Annual Return reporting period where 9.779 kg/year was calculated and is less than the annual load estimation of 42.5 kg/year as predicted in the RGP Environmental Impact Statement (EIS).
- **Benzo(a)pyrene (equivalent)** - Benzo(a)pyrene air emissions are an assessable pollutant and are measured annually to calculate the annual pollutant loads and associated fees under the EPL 12003. For the 2018 Annual Return, the calculated annual load for Benzo(a)pyrene was 0 kg/year, which is less than the annual load limit of 0.27 kg/year as required by EPL 12003. The results reported in the 2018 Annual Return represents a decrease from the 0.004 kg/year reported for the previous Annual Return period. This is also less than the annual load estimation of 0.24 kg/year as predicted in the RGP EIS.
- **Fine Particulates** - Fine particulates are an assessable pollutant and are calculated annually to determine the associated fees under EPL 12003. For the 2018 Annual Return, the calculated annual total load for fine particulates was 11.153 kg/year. This is less than the 460 kg/year load limit required by EPL 12003, and less than the annual load estimation of 415 kg as predicted in the RGP EIS. It also represents a increase from the previous year's level of 4.658 kg/year.
- **Hydrogen Sulphide** - Hydrogen sulphide is an assessable pollutant and is calculated annually to determine the associated fees under EPL 12003. For the 2018 Annual Return, the calculated annual load



for hydrogen sulphide was 0.494 kg/year. This is less than the 1.6 kg/year load limit required by EPL 12003, and less than the annual load estimation of 1.4 kg/year as predicted in the RPGP EIS. The results reported in the 2018 Annual Return represents a decrease from the 0.566 kg/year reported for the previous Annual Return period.

- **Nitrogen Oxides** - NO_x annual pollutant loads and air concentration limits are monitored on a quarterly and continuous basis. For the 2018 Annual Return, the calculated annual load for NO_x was 27960.505 kg/year, which is well below the licensed limit of 103,000 kg/yr. This represents a decrease compared with the 29132.203 kg/year reported in the previous Annual Return. The NO_x annual load reported in the 2018 Annual Return was also much less than the predicted assessable load of 93,226 kg/year as stated in the RPGP EIS.
- **Sulphur Oxides** – Sulphur oxides are measured quarterly to calculate the annual pollutant loads and the associated fees under EPL 12003. For the 2018 Annual Return, the calculated annual total load for Sulphur Oxides was 0.022 kg/yr. This is significantly less than the 3,000 kg/year load limit required by EPL 12003 and less than the annual load estimation of 2,689 kg/year for sulphur oxide emissions as predicted in the RPGP EIS. This result is lower than the results reported in the previous Annual Return of 0.034 kg/yr.
- **Volatile Organic Compounds (VOCs)** – VOCs discharged to air are measured annually to calculate the annual pollutant loads and associated fees under EPL 12003. For the 2018 Annual Return, the calculated annual load for VOCs was 157.825 kg/year, which is well below the limit of 33,000 kg/year as required by EPL 12003. This result is also less than the annual load limit of 29,696 kg/year as predicted by the RPGP EIS. The 2018 Annual Return load result represented a decrease from the previous Annual Return result of 242.476 kg/year.

There were no exceedances of the EPL 12003 licence limits for the assessable annual pollutant loads for the RPGP as reported within the 2018 Annual Return. Assessable pollutants were also reported at below the annual load estimations as predicted in the RPGP EIS.

AGL fully met its AQMSP target for this reporting period.

5.4. Erosion and Sediment

5.4.1. Erosion and Sediment Management

Soil types within all project areas are assessed on a regional and local scale. The aim of the assessment is to determine the impact of the existing and proposed operations on the soil groups identified within the area and assess what, if any, impacts may arise.

It has been determined that the soils and land capability within the area of operations do not pose a significant constraint to development.

Activities that necessitate the removal of vegetation and disturbance to the soil surface have the potential to cause an increase in the effects of wind and water erosion. To manage the potential impacts of operations on soil and surface water, all activities that pose a potential threat to soil and or surface water are conducted in accordance with AGL's Soil and Water Management Sub Plan (SWMSP).



Management of erosion and sedimentation issues is summarised in the SWMSP. The objectives of the SWMSP are to:

- Minimise soil disturbance, prevent contamination and associated impacts on riparian corridors and native vegetation and promote and maintain soil stability throughout the life of the project; and
- Minimise negative impacts from construction and operational activities on surface water resources.

Targets relating to soil and erosion identified in the SWMSP are as follows:

- Zero complaints received from landowners or government agencies concerning land disturbance, contamination or soil stability;
- Zero incidents concerning water levels or water quality during operations.

Control measures employed to meet the objectives for erosion and sediment are outlined in the SWMSP.

5.4.2. Erosion and Sediment Related Activities

During this reporting period AGL's SWMSP was updated. The Sub Plan details specific sediment and erosion control measures across construction, operation and rehabilitation project phases.

5.4.3. Erosion and Sediment – Environmental Performance

Activities associated with erosion and sediment controls were compliant with regulatory requirements and the SWMSP targets and objectives for the reporting period with no community complaints received or reportable incidents recorded.

5.5. Surface Water

5.5.1. Surface Water Management

Surface water management is a key environmental issue requiring careful planning and implementation of sediment and erosion control processes and management of potential contamination activities to avoid a reduction in surface water quality. Control measures employed to meet the objectives for surface water are outlined in the SWMSP.

The target identified in the SWSMP relating to surface water management is:

- Zero water contamination incidents from construction, operational and rehabilitation activities.

The SWMSP was updated during this reporting period.

5.5.2. Surface Water Generation Results

The CGP harvests rainwater from the runoff of all buildings within the RGP. This water is stored in above ground rainwater tanks and is used to service the RGP's amenities and wash bay. Once used, the water is separately stored in in-ground grey water and septic water tanks. A combined total of 325 KL of grey water and septic water was transported off site by licensed contractors for disposal at a licensed facility.

5.5.3. Surface Water Monitoring Requirements and Results

The monitoring requirements for water quality stored within the RGP flare pit are detailed in DA-282-6-2003-I and EPL 12003. It is noted that there are no concentration limits for the specified parameters below as the water is not discharged to the environment.

The RGP flare pond has a small volume of water comprising of previously treated water from the RGP, filtered produced water and direct rainfall. Treated water from the RGP and filtered produced water is now



stored in separate above ground double walled tanks. Only direct rainfall water goes into the flare pond. Analysis results for water stored within the RGP flare pond is as follows:

- The water level in the flare pond decreased from approximately 0.8m in July 2018 to 0.5m in June 2019;
- Electrical conductivity levels ranged from 15,800 $\mu\text{S}/\text{cm}$ to 26,100 $\mu\text{S}/\text{cm}$;
- Total suspended solids ranged from 16 mg/L to 49 mg/L;
- Biochemical oxygen demand levels ranged from <2 mg/L to 64 mg/L;
- Oil and grease results ranged from <5 mg/L to 28 mg/L;
- Total polycyclic aromatic hydrocarbons results were below the Limit of Reporting;
- Total phenols results were below the Limit of Reporting;
- Total organic carbon levels ranged from <1 mg/L to 2880 mg/L; and
- Total petroleum hydrocarbons were below the Limit of Reporting.

While the SWMSP outlined water monitoring requirements, AGL does not trigger the need to monitor surface water.

5.5.4. Surface Water Related Activities

During the reporting period, activities included:

- Workover of nine wells;
- Decommissioning of nine wells (RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21) was completed;
- The continued operation of the RGP; and
- Continued operation of the RGP water treatment plant.

Rainwater that is not collected at the RGP is diverted to the site's permanent sediment control pond.

5.5.5. Surface Water – Environmental Performance

There were no surface water contamination incidents recorded or community complaints received in relation to surface water for the reporting period. Hence, AGL met its target as outlined in the SWMSP for the reporting period.

5.6. Groundwater

5.6.1. Groundwater Management

Control measures employed to meet the objectives for groundwater are outlined in the SWMSP and Groundwater Management Plan (GMP) of the CGP EMP. The objectives of the GMP are to:

- Describe the water level and water quality monitoring network across the different groundwater systems located beneath the CGP area;
- Identify water level and water quality trends that may suggest connectivity or contamination of aquifers due to CSG activities;
- Provide a monitoring (and an action response) framework for the groundwater monitoring program at the CGP;
- Provide water triggers for an action plan should there be unexpected water level or water quality impacts; and
- Outline the reporting and review requirements for the monitoring program.



The roles and responsibilities for groundwater management are stated in the GMP.

5.6.2. Groundwater Generation Results

During the reporting period, water was produced from CSG wells during dewatering, and well workovers in Menangle Park, Rosalind Park and EMAI fields. The following volumes were generated and recycled or disposed during the reporting period:

- 1,391.14 KL of produced groundwater was generated from wells during dewatering. This volume is well below the licensed 30 ML (i.e. 30,000 KL) of groundwater allocated to the CGP;
- No produced water from AGL wells was reused for production operations;
- A total of 2,385.23 KL of produced water from well sites and the RPGP was recycled by AGL's licensed liquid waste contractor.

5.6.3. Groundwater Related Activities

During the reporting period, AGL has actively undertaken a number of measures in relation to groundwater management:

- A 2017-2018 Annual Groundwater and Surface Water Monitoring Report was published in September 2018;
- Water quality monitoring events were completed at selected producing gas wells as part of the groundwater monitoring network and as required by the EPL; and
- Two water quality sampling events and continuous water level monitoring were completed at dedicated groundwater monitoring bores.

AGL's Annual Bore Licence Compliance Report (2018-2019) was submitted to Natural Resources Access Regulator after the reporting period on 24 September 2019.

5.6.4. Groundwater Monitoring Requirements

The groundwater quality monitoring requirements for six monthly and annual sampling of water quality are required by EPL 12003 Condition M2.7 and M2.8.

5.6.5. Groundwater Monitoring Results

Groundwater quality monitoring is required under Condition M2.7 of EPL 12003. The EPL requires groundwater monitoring to be undertaken at monitoring points 8-15; monitoring for some parameters is required on a six-monthly basis, while others are required to be monitored annually. Results are released six monthly and are available on the CGP website. In addition, the results of the monitoring are submitted annually as a Groundwater Monitoring Report (GMR) with the Annual Return.

Of the eight monitoring points identified by the Condition P1.3 of the EPL, only four gas wells (RB10, MP07, MP09 and MP22) contained sufficient water for sampling to take place during the latest Annual Return period (i.e. 22 December 2017 – 21 December 2018). This is due to many of the operating wells within the CGP producing very low volumes of water. Where produced water from operating wells was sufficient for sampling and testing, salinity (measured by electrical conductivity) ranged between 2,290 and 15,300 $\mu\text{s}/\text{cm}$ during the 2017-2018 period.

Full details of results of groundwater monitoring required under EPL 12003 are provided in the Produced Water Quality Monitoring Reports which are available on the CGP website.

In addition to groundwater monitoring required under EPL 12003, AGL collects data from seven groundwater monitoring bores located within proximity to operational gas wells (within approximately 40



meters). This data is compared to data collected from previous reporting periods, and from the now decommissioned four groundwater monitoring bores (RMB site), providing additional information for assessing impacts of wellfield operation on the shallow beneficial aquifers. Results are measured on a six-monthly basis and reported in the CGP Annual Bore Licence Compliance Report, which is provided to DPI Water.

The salinity (electrical conductivity) results at the shallow groundwater monitoring bores (where data was available) did not alter significantly during the 2018/19 year. Details of salinity trends from groundwater monitoring bore results are provided at Appendix K of this report.

5.6.6. Groundwater – Environmental Performance / Trends

The total volume of produced water generated has slightly increased from 1,365 KL last reporting period to 1,391.14 KL this period, representing an increase of 1.9%. This marginal increase is due to the nine well workovers successfully returning more produced water. Approximately 90% of operating wells each produced less than 50 KL of produced water.

There was no produced water reused for well workovers during the reporting period due to the reduced number of workovers and nature of workover activities performed.

Total recycled produced water from well sites and the RPPG has increased from 2,340.92 KL last reporting period to 2,385.23 KL this period. This decrease is due to a reduction in produced water from the well sites and RPPG.

During this reporting period AGL was compliant with its WALs and Works and Use Approvals conditions.

Data collected from the seven groundwater monitoring bores located within proximity to operational gas wells (within approximately 40 meters) and compared to historical data collected from a remote site with four (now decommissioned) groundwater monitoring bores (RMB site) provides additional information for assessing impacts of wellfield operation on the shallow beneficial aquifers. The salinity (electrical conductivity) at shallow groundwater monitoring bores (where data was available) did not alter significantly during the reporting period. In addition, the water levels collected from the individual dedicated groundwater monitoring bore sites do not show any evidence of long-term effects other than seasonal/climatic variations.

All groundwater analysis results collected as part of the monitoring requirements for AGL's EPL 12003 (eight gas wells requiring 6 monthly water quality monitoring) and all results collected from the seven dedicated shallow groundwater monitoring bores (MPMB01-04, GLMB01-03) are available on the CGP website.

Groundwater monitoring was undertaken in accordance with GMP requirements. There were no reportable incidents recorded or community complaints received in relation to groundwater for the reporting period, consequently AGL's objectives as outlined in the GMP have been met for the reporting period.

5.7. Waste Management

5.7.1. Waste management

The Waste Management Sub Plan (WMSP) was revised within the reporting period. The objective of the WMSP is to minimise waste generation and disposal by:

- Purchasing environmentally friendly materials;

- Implementation of reuse and recycling initiatives; and
- Ensuring that environmental impacts relating to waste management are reported and acted upon immediately.

The CGP WMSP identifies the following targets against which performance can be measured:

- Waste disposal and recycling records are accurately maintained for the Environmental Footprint Report and reviewed annually for improvement opportunities; and
- Zero non-conformances concerning waste management practices.

Control measures used to meet the objectives for waste management are outlined in the CGP WMSP.

5.7.2. Waste Generated and Disposed/Recycled

Table 5-2 summarises the amount of waste generated, disposed and recycled during the reporting period.

Table 5-2: Waste generated and Disposed / Recycled

Waste Stream	Amount Disposed	Amount Recycled
Sewage and grey water from the RPGP site and workover rig facilities	325 KL	
General Waste	173.57 tonnes	
Produced water		2,385.23 KL
Hazardous Waste (exclusive of septic)	13.14 tonnes	
Waste Oil		26.3 tonnes
Coal Sludge/Workover Mud		398.03 KL
Scrap steel		75.28 tonnes
Batteries		1.17 tonnes
Oil filters		2.40 tonnes
Paper		2.10 tonnes
Co-mingled recycling		7.18 tones

5.7.3. Waste Management – Environment Performance

AGL continued two improvement opportunities during the reporting period. The Return and Earn scheme was continued at the RPGP, recycling over 1300 beverage containers with all proceeds donated to charity.

AGL also voluntarily participated in ‘Business Clean Up Australia Day’ on 25 February 2019. Ten staff collected approximately 200kg of waste from public reserves in the Menangle area. The waste was then sorted for recycling and disposal.

AGL has maintained its process of waste disposal and recycling records and had no non-conformances regarding waste management during the reporting period. Therefore, AGL has met the WMSP targets for this reporting period.



5.8. Hazardous Materials

5.8.1. Hazardous Material management

AGL has developed a Dangerous Goods and Hazardous Materials Sub Plan (DGHMSP) to specifically address and manage Dangerous Goods and Hazardous Materials at the CGP. The DGHMSP was updated during this reporting period.

The main objective of the DGHMSP is to manage the purchasing, storage, transport, handling and disposal of Dangerous Goods and Hazardous Materials (including waste Dangerous Goods and Hazardous Materials) during operation, maintenance and rehabilitation activities to minimise the risk of impact to the environment (soil, surface water, groundwater, atmosphere).

The DGHMSP identifies the following target against which performance can be measured:

- Aim towards zero incidents resulting in Dangerous Goods or Hazardous Materials entering the environment or causing harm or injury to personnel.

5.8.2. Hazardous Materials Related Activities

AGL maintains an on-site register of all chemicals in use. The register includes Safety Data Sheets (SDS) for chemicals and appropriate emergency response and first aid provisions.

A Dangerous Goods Notification issued by Safework NSW is not required due to the small quantities of Dangerous Goods stored at the RPGP.

5.8.3. Hazardous Materials – Environment Performance

Activities associated with hazardous materials management were compliant for the period with no reportable incidents recorded or community complaints received. Hence, AGL has met the DGHMSP target for the reporting period.

5.9. Contaminated Land

5.9.1. Contaminated Land Management

No land identified as contaminated or polluted forms part of AGL CGP land holdings.

Management objectives and strategies relating to contamination or pollution are covered in the SWMSP and the DGHMSP. The objectives are to:

- Prevent contamination and associated impacts on riparian corridors and native vegetation throughout the life of the project;
- Minimise negative impacts from construction and operational activities on surface water resources; and
- Manage Dangerous Goods and Hazardous Materials during operation, maintenance and rehabilitation activities to minimise the risk of impact to the environment.

5.9.2. Contaminated Land Management Requirements

The prevention of contamination or pollution management includes a duty to report and manage pollution incidents in accordance with the POEO Act. The provisions of the POEO Act include a requirement for holders of EPLs to prepare, keep, test and implement a Pollution Incident Response Management Plan (PIRMP). The specific requirements for PIRMPs are set out in Part 5.7A of the POEO Act and the *Pollution of the Environment Operations (General) Regulation 2009*.



AGL completed their requirement to develop and implement a PIRMP in 2012. AGL reviewed, updated and tested its CGP PIRMP during the reporting period, in accordance with *Pollution of the Environment Operations (General) Regulation 2009*.

5.9.3. Contaminated Land – Environmental Performance

As noted at sections 5.5.5 and 5.8.3, activities were compliant for the period with no reportable incidents or community complaints associated with land contamination or pollution. Hence, AGL met the relevant Sub Plan targets for this period.

5.10. Threatened Flora and Fauna

5.10.1. Threatened Flora and Fauna Management

An assessment of flora and fauna is undertaken as part of each environmental assessment application relating to a new project development. The aim of the assessment is to determine the potential impact of AGL's operations on the local ecology and to develop suitable management practices to be applied during the project's operational activities. The site assessments are based on a detailed site survey of individual well sites, access routes, pipeline routes and project areas.

In general terms, AGL's selection criteria for new sites aims to target previously disturbed areas and actively avoids areas of native vegetation or of environmental significance.

The disturbance created by the activities involved with the project is primarily limited to construction activities including ground disturbance from vehicles and drilling related equipment, pipeline trenching activities and limited land clearing for well sites.

Through careful planning, the project components avoid significant flora and fauna habitats. There have been no identified significant issues that have been unable to be effectively avoided or managed during the project to date.

Management objectives relating to native flora and fauna are covered in the Flora and Fauna Management Sub Plan (FFMSP). The objectives are:

Flora

- Minimise the loss of remnant native vegetation and promptly carry out rehabilitation activities.
- To promote, monitor and maintain regrowth of rehabilitated vegetation cover to ensure that it is consistent with the surrounding environment and to the satisfaction of the landowner.

Fauna

- Ensure habitat disturbance is avoided during construction and operational activities and to protect fauna from physical harm.

The FFMSP identifies the following targets against which performance can be measured:

- Zero unauthorised disturbance to native flora;
- Zero complaints from landowners relating to native vegetation disturbance; and
- No injured native fauna.

Control measures employed to meet the objectives and targets for flora and fauna are outlined in the CGP FFMSP.



5.10.2. Threatened Flora and Fauna – Environmental Performance

Activities associated with threatened or native flora and fauna were compliant for the period with no unauthorised disturbance to native flora, injured native fauna, incidents recorded, or complaints received. Hence, AGL met its target for management of Flora and Fauna during the reporting period.

5.11. Noxious Weeds Management

5.11.1. Noxious Weeds Management

Management of noxious weeds is covered under the Rehabilitation and Landscape Management Sub Plan (RLMSP) of the CGP. The objective of the RLMSP is to “prevent the introduction and dispersal of noxious weeds, pathogens and pest species”. Noxious weeds may be introduced and/or dispersed via personnel vehicles, equipment and plant.

Specific targets identified in the RLMSP for weed management are:

- Close out of identified weed issues within two weeks;
- Zero complaints from landowners relating to vegetation cover or weed growth.

Control measures employed to meet the objectives and targets for weed control are included within the RLMSP.

5.11.2. Noxious Weed Related Activities

Details of weed spraying including dates, areas sprayed, chemicals used, weather conditions and personnel details are maintained at the RPGP site. The following provides a summary of the date and locations of weed spraying undertaken during the reporting period:

- 15 November 2018: SL03, GL08, GL09, GL11, GL13, GL14, GL15;
- 20 November 2018: EM30, EM37, MP15;
- 30 November 2018: MP15, MP30, EM24, EM27, EM25, EM18, EM22, EM14;
- 07 December 2018: MT05
- 11 January 2019: RPGP, Office area and storage yard;
- 15 February 2019: SF20, SF17
- 28 March 2019: RPGP, Office area and storage yard;
- 15 April 2019: SF09

The main herbicides used were Glyphosate 450, Clear Up Bio, Kamba M and Brushwet Herbicide. Approximately 8.55 L of herbicides were used during the reporting period.

5.11.3. Noxious Weeds – Environmental Performance

Activities associated with weed control were compliant with the targets identified in the RLMSP during this period, with no reportable incidents recorded or landholder/community complaints received.

5.12. Blasting

No blasting is undertaken as part of the project.



5.13. Operational Noise

5.13.1. Operational Noise Management

All project aspects are designed with the aim of safeguarding the amenity of surrounding residents through the proper management of noise generating activities. The assessment of noise and the design of safeguards have been carried out in conjunction with field noise studies that have been undertaken since the inception of the project.

A program of monitoring has been established at the RGP. The purpose of the monitoring is to meet licence conditions; demonstrate compliance with licence limits; and to link potential complaints to operational procedures in order to discern those aspects of the project which may be responsible for causing a specific noise problem.

Any noise complaints are compiled and presented for discussion at the regular CCC meetings.

Objectives and targets regarding noise relating to operational activities carried out at the CGP are identified in the Noise Management Sub Plan (NMSP) of the CGP EMP, and are as follows:

Objectives:

- Comply with the operations noise criteria;
- Ensure that there are no unresolved noise-related complaints from the public; and
- Implement best available practice noise management measures for Production Operation works.

Targets:

- Zero exceedances of noise criteria;
- Zero complaints received from sensitive receivers; and

Control measures employed to meet the objectives for noise are outlined in the NMSP.

5.13.2. Operational Noise Limits and Monitoring Requirements

The noise limits and monitoring requirements for the project are listed in the following Development Consents and Project Approvals.

DA 282-6-2003-i Schedule 4 Clause 40 – Annual Noise Monitoring

Noise compliance reports are submitted annually to the EPA as part of the EPL Annual Return. The DPI&E receive a summary of this information as part of this AEPR. A summary of the annual report's results is provided in Appendix I.

DA 282-6-2003-i Schedule 4 Clause 41 – Quarterly Noise Monitoring

Quarterly noise monitoring in accordance with DA 282-6-2003-i Schedule 4 Clause 41 was undertaken by Wilkinson Murray at sites R1 and R7, which represent the residential premises most impacted by noise emanating from the RGP.

Quarterly noise monitoring for this reporting period included:

- Attended noise monitoring 12 September 2018;
- Attended noise monitoring 5 December 2018;
- Attended noise monitoring 4 March 2019; and
- Attended noise monitoring 31 May 2019.



Four quarterly operational noise monitoring reports were prepared for the reporting period of July 2018 to June 2019 for the RPGP.

All reports stated the RPGP to be compliant with noise limits identified in DA-282-6-2003-I.

A summary of the findings of each report is included within Appendix I.

5.13.3. Operational Noise - Environmental Performance / Trends

Operational Noise performance at the Rosalind Park Gas Plant

No noise complaints relating to operational noise from the RPGP were received during the reporting period. This trend is consistent with previous years. Noise performance is consistent with operational noise predictions in the RPGP EIS.

Operational Noise Performance – Field Monitoring

No operational noise monitoring was undertaken during the reporting period.

No noise complaints were received during the reporting period regarding operational noise.

Operational activities are considered compliant with operational noise targets and objectives.

5.14. Construction Noise

5.14.1. Construction Noise Management

No significant construction activities were undertaken during this reporting period, however minor earthworks associated with well decommissioning and rehabilitation were completed at wells RP10, RP12, RP02, GL16, EM31, EM32, EM33, EM28 and EM21. Nine well workovers were also completed at EM34, WG03, RB06, GL17, SL03, MT06, SF05, MP10 and MP05A.

Noise generating activities associated with well workover maintenance, decommissioning and rehabilitation may include:

- Workover rig and associated equipment;
- Earth moving activities associated with rehabilitating well pads and access roads; and
- Truck movements.

The NMSP objectives and targets regarding construction noise are listed below.

Objectives:

- Comply with the construction noise criteria;
- Minimise noise during the construction phase;
- Limit work activities (other than drilling where approved for 24 hours/ 7 days) to daylight hours between 7:00am and 6:00pm weekdays and between 8:00am and 1:00pm on Saturday. No work on Sundays or public holidays except in emergencies; and
- Implement best available practice noise management measures for construction works.

Targets:

- Zero exceedances of noise criteria;



- Zero non-conformances with construction hours; and
- Zero complaints received from sensitive receivers.

Control measures employed to meet the objectives for noise are outlined in the NMSP of the CGP EMP.

5.14.2. Construction Noise Limits and Monitoring Requirements

The noise limits and monitoring requirements are detailed in the Development Consents, Project Approvals and Modifications for the project.

5.14.3. Construction Noise Monitoring Results

Construction noise monitoring was completed by Wilkinson Murray during the well workover maintenance activities at SF05 on 06 and 08 May 2019, and at MP03 on 23 May 2019.

The measurement results demonstrated compliance with the Project Approval construction noise goals

5.14.4. Construction Noise Performance and Trends

No noise complaints were received during the reporting period regarding construction noise.

Construction activities are considered compliant with construction noise targets and objectives.

5.15. Visual Amenity

5.15.1. Visual Amenity Management

The visual impact of the well sites is relatively low, primarily due to the small area of land surface occupied. The visual impacts of well sites are minimized further through their design, spacing and integration with the prevailing topography.

Flaring at the RPGP can result in a glow if it occurs at night. The overall approach by AGL has however progressed to the point where flaring at the RPGP was minimal during the reporting period.

Management of Visual Amenity issues is covered in the CGP RLMSP. The objective of the RLMSP is to minimise the impacts to the visual characteristics of the Project area. The target set in the Plan is to achieve zero complaints from residents relating to visual impacts.

5.15.2. Visual Amenity Monitoring Requirements

The monitoring requirements for visual amenity are detailed in DA 282-6-2003-i.

The biennial independent “Landscape and Lighting Audit Report” (Landscape and Lighting Audit) was previously conducted in September 2014. Based on the performance of the landscape plantings and the findings of the September 2014 audit, the DPI&E has granted AGL an exemption from commissioning an independent Landscape and Lighting Audit in September 2016 and September 2018. The next audit will be completed in September 2020.

5.15.3. Visual Amenity Monitoring Results

Flare Events (Schedule 4, Clause 11)

In accordance with DA 282-6-2003-i Schedule 4 Clause 11, AGL recorded the frequency and operation of the flare. The Flare event log is provided in Appendix J.

Eleven flare events occurred during the reporting period and had a total duration of 763 minutes. These events occurred on 14 August, 17 and 19 October, 14 December 2018 and 27 January, 16 March, 5 and



18 April, 8 May and 8 June 2019. The duration of flaring events increased since the previous AEPR period, where five field flare events lasted 224 minutes.

In accordance with DA 282-6-2003-i Schedule 4 Clause 11 (f), Appendix J includes a 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 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."

Independent Audit of Vegetation and Landscape Management Plan (Schedule 4, Clause 13 and 14)

In accordance with DA 282-6-2003-i Schedule 4 Clause 13, a Vegetation and Landscape Management Plan (VLMP) was prepared, submitted and approved by the DPI&E on 2 July 2004. The RPGP is maintained and monitored in accordance with the VLMP to ensure the condition of the landscaping and the effectiveness of visual mitigation measures remain adequate.

In accordance with DA 282-6-2003-i Schedule 4 Condition 14 the VLMP was independently monitored every six months for the first two years and thereafter every two years by an approved independent and suitably qualified arborist.

The DPI&E has granted AGL an exemption from commissioning an independent Landscape and Lighting Audit in September 2018. The next audit will be completed in September 2020.

Independent Audit of Visual Impacts of the RPGP (Schedule 4, Clause 18)

The DPI&E has granted AGL an exemption from commissioning an independent Landscape and Lighting Audit in September 2018. The next audit will be completed in September 2020.

No complaints were received relating to lighting controls during the reporting period.

Landscape Planting Plan for the relocated access road (DA Mod 2 May 2007, Schedule 4, Clause 19A and 19B)

A Landscape Planting Plan was prepared for the Rosalind Park access road and approved by the Director-General (DG) of the then Department of Planning on 21 May 2007.

Clause 19B requires that the requirements of the Landscape Planting Plan are independently audited initially within six months of completion of the landscaping and biennially thereafter. The independent audit was combined with the independent audit of the VLMP required under Clause 18 and was undertaken in September 2014. The DPI&E has granted AGL an exemption from commissioning an independent Landscape and Lighting Audit in September 2018. The next audit will be completed in September 2020.

5.15.4. Visual Amenity Performance / Trends

Landscaping and Lighting

No complaints or reportable incidents were received during this reporting period in relation to landscaping or visual impacts at the RPGP for this reporting period.

During the next reporting period, AGL plans to continue the current maintenance program for on-going landscape maintenance measures through regular weed and grass control around trees and mulch where necessary to suppress grass growth.



Flare Events

Eleven flare events occurred within this reporting period and totalled 763 minutes, which represents an increase since the previous AEPR period, where five full field flare events lasted 224 minutes. This increase is due to an increased number of unscheduled plant shutdowns. Please refer to Appendix J for more information.

Summary

No complaints or incidents relating to visual amenity were recorded during the audit period. Hence, AGL has successfully met its target for visual amenity at the CGP.

5.16. Aboriginal Heritage

5.16.1. Aboriginal Heritage Management

Aboriginal cultural heritage and archaeological assessments are conducted as part of the Environmental Impact Assessment process.

The conclusion from the various assessments is that the CGP area is generally considered to be of low archaeological potential. Despite this, evidence of Aboriginal occupation of the area has been identified during the surveys.

In regard to cultural heritage, the management objective is to protect and preserve cultural heritage. Control measures employed to meet the objectives for Aboriginal heritage are outlined in the Aboriginal Cultural Heritage Management Sub Plan of the CGP EMP.

The Aboriginal Cultural Heritage Management Sub Plan was updated in December 2013 by Biosis Research. This plan provides the process for on-going management of recorded aboriginal archaeological sites and identified areas of Potential Archaeological Deposit (PAD) to guide the design, location and implementation of future works within the CGP.

5.16.2. Aboriginal Heritage Related Activities

During the reporting period AGL engaged Biosis to complete an Aboriginal Cultural Heritage Assessment in consultation with Registered Aboriginal Parties for proposed maintenance upgrades to existing access tracks on the Wandinong property. After the reporting period, an Aboriginal Heritage Impact Permit (**AHIP**) was submitted to the Office of Environment and Heritage (**OEH**) to relocate several artefacts on the existing access track. The AHIP is currently being assessed by the OEH.

5.16.3. Aboriginal Heritage Management Performance

There were no activities associated with aboriginal heritage matters identified and no AGL related reportable incidents recorded or community complaints received. Hence, AGL has successfully met its target regarding aboriginal heritage at the CGP.

5.17. European Heritage

5.17.1. European Heritage Management

In terms of European heritage, the area falls within the lands originally granted to early British pastoralist John Macarthur. Accordingly, the project is located within an area associated with early European occupation and land use, particularly regarding early agricultural expansion.



The project area is located, at least partially, within three Historic Cultural Landscapes. These areas have been classified based on their landscape patterns and historical associations according to relevant and standard evaluation criteria. For the most part, project components were selected to avoid known or potential sites of non-Aboriginal or natural heritage significance.

Regarding cultural heritage, the management objective is to protect and preserve European cultural heritage.

Control measures employed to meet the objectives for cultural heritage are outlined in the European Heritage Management Sub Plan of the CGP EMP. The European Heritage Management Sub Plan was updated during this reporting period.

5.17.2. European Heritage Related Activities

No activities impacting on European heritage were carried out by AGL during the reporting period.

5.17.3. European Heritage Management Performance

No activities impacting on cultural heritage were undertaken for this period with no reportable incidents recorded or community complaints received regarding European Heritage. Hence, AGL has successfully met its target regarding European Heritage at the CGP.

5.18. Spontaneous Combustion

Spontaneous combustion is an environmental aspect associated with coal mining and as such is not applicable to the CGP.

5.19. Bushfire

5.19.1. Bushfire Management

Operational activities have the potential to ignite bushfires through the operation of flammable fuel powered equipment, flares and / or vehicles. Flaring at the RPPG is strictly controlled to minimise any potential to start or spread a bushfire situation. This is achieved by positioning the flare in a non-hazardous location directly above a flare pond containing water and surrounding the pond adjacent to the flare with non-combustible screens.

Regarding bushfire risk, the management objectives are:

- Manage potential bush fire fuel surrounding our facilities such as grass;
- Manage the preparedness and emergency response of AGL employees for bush fires; and
- Comply with government approval license requirements that form part of AGL Camden Gas Project.

Control measures employed to meet the objectives for bushfire control are outlined in the Emergency Response Plan which has been updated during this reporting period.

5.19.2. Bushfire – Environmental Performance

During the reporting period, there were no reported bushfires on land managed by AGL. There were several grassfires in areas beyond AGL's lease areas, however, AGL's assets were not impacted by these grassfires due to the maintenance of the wellsite asset protection zone.



5.20. Mine Subsidence

Mine subsidence is an environmental aspect associated with coal mining and as such is not applicable to the CGP.

5.21. Methane Drainage / Ventilation

Methane drainage/ventilation is the process associated with underground coal mining and as such is not applicable to the CGP.

5.22. Public Safety

5.22.1. Public Safety Management

Public safety is assured through compliance with:

- Operational Protocols;
- AGL Health and Safety Policy;
- Implementation of management sub plans within the EMP; and
- Site and Infrastructure Security.

5.22.2. Public Safety - Performance

During this reporting period there were no public safety related reportable incidents recorded.

5.23. Safety and Risk Management

5.23.1. Safety and Risk Management Monitoring Requirement

The monitoring requirements for incident reporting as a result of a Development Consent condition are outlined in the EMP.

5.23.2. Incident Reporting

During the reporting period a total of 30 Environmental Hazards, 8 Near Misses, and 0 Incident were reported within AGL's incident reporting system, myHSE. 33 of these reports were assessed as 'low' risk rating; 5 of these assessed as 'moderate' risk rating; and none assessed as a 'high' risk rating level.

Each report was investigated by the responsible AGL Leader and suitable actions were implemented to avoid a recurrence.

The Environmental Hazards, Near Misses and Incident recorded can be grouped and summarised as follows:

- Minor spills, storage and handling of liquids;
- Land management;
- Waste management;
- Site Maintenance;
- Storage of dangerous goods and hazardous materials; and
- Air emissions.



5.23.3. Safety and Risk – Environmental Performance

During this reporting period there were no significant safety or risk management related reportable environmental incidents recorded.

5.24. Environmental Training

During the reporting period, AGL personnel were provided with environmental awareness training on the following topics.

Table 5-3: Environmental Training Delivered in FY19

Title of Training	Date Delivered	Summary of training
Noise Management Sub Plan	27 August 2018	<ul style="list-style-type: none"> - Background - Objectives and Targets - Responsibilities - Key management measures - Monitoring and reporting - What you need to do
Flora and Fauna Management Sub Plan	07 February 2019	<ul style="list-style-type: none"> - Background - Objectives and Targets - Responsibilities - Key management measures - Monitoring and reporting - What you need to do
Air Trigger Action Response Plan	14 March 2019	<ul style="list-style-type: none"> - Background - Purpose - TARP Actions
Mercaptan Odorant	4 and 5 June 2019	<ul style="list-style-type: none"> - Odorant storage, handling and properties - Regulations - Emergency Response - Spill Response



6. Rehabilitation

6.1. Rehabilitation Overview

Operations are planned such that disturbance occurs to the minimum area of land possible. Large trees and canopy areas are avoided wherever possible by careful route and site selection and all disturbed areas restored to as near as practicable their pre-existing conditions and contours. A program of planned maintenance ensures that regrowth is facilitated, and weeds do not establish.

At the end of the project's life, surface infrastructure is removed prior to full site restoration being undertaken.

The environmental management objectives for rehabilitation are to:

- Promptly carry out rehabilitation activities to promote vegetation regrowth in disturbed work areas to a standard consistent with the surrounding area;
- Promote and maintain regrowth of vegetation;
- Monitor and maintain vegetation cover to ensure that it is consistent with the surrounding environment in consultation with the landowner;
- Prevent the introduction and dispersal of noxious weeds, pathogens and pest species; and
- Monitor well compounds, access roads, and gathering line routes for 12 months (or until landowner signs off) following rehabilitation to ensure that areas remain free of weeds, pathogens and pest species.

Control measures employed to meet the objectives for rehabilitation are outlined in the Rehabilitation and Landscape Management Sub Plan.

Targets identified to measure the performance of rehabilitation are listed in the Rehabilitation and Landscape Management Plan as follows:

- Close out of identified weed issues within two weeks;
- Zero complaints from landowners relating to vegetation cover or weed growth; and
- Zero complaints received from landowners relating to land disturbance or infrastructure.

6.1.1. Rehabilitation of Disturbed Land

Specific rehabilitation activities associated with the project may be subdivided into four main components:

- Wellheads;
- Gas gathering system;
- Access Roads; and
- Gas plants.

Progressive rehabilitation is an on-going management practice for all areas that have resulted in disturbance from the project. Table 6-1 lists a summary of the rehabilitation works completed since the project was commenced.



Table 6-1: Summary of project rehabilitation works complete to date

PPL	Wells Drilled (total)	Wells – Initial Surface Rehabilitation	Wells – Final Surface Rehabilitation	Gas Plant – Fully Operational	Gas Plant – Fully Rehabilitated	Gas Gathering Line – Fully Operational (km)	Gas Gathering Line – Fully Rehabilitated (km)
1	38	16	22	0	1	30	5*
2	5	5	0	0	0	1.5	0
4	96	74	22	1	0	68.6	0.3*
5	5	5	0	0	0	1.1	0
6	0	0	0	0	0	0	0

*denotes gas gathering lines which have been fully decommissioned including purging and removal of all surface equipment but have been left in situ (at the request of the landholder/owner).

Final surface rehabilitation works were undertaken in consultation with the landowner DP&E-RR and EPA for four wells within PPL1 (EM28, EM31, EM32, EM33), and five wells within PPL4 (EM21, RP02, RP10, RP12 and GL16).

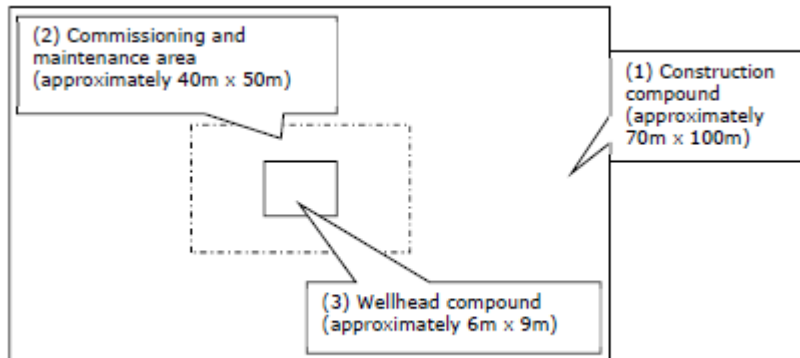
6.1.2. Well Sites

All well sites are located in cleared farmland or in areas clear of native vegetation, with additional clearing being minor or not required.

Rehabilitation of well surface locations is undertaken in stages. These include:

- Initial surface rehabilitation of surplus construction footprint following completion of the well drilling and construction phase to the commissioning and maintenance area (refer to stages 1 to 2, Figure 6-1);
- Further rehabilitation of the commissioning area to the production compound would occur when the well(s) have reached steady state production (refer to stage 2-3, Figure 6-1); and
- Final surface rehabilitation of well sites following decommissioning of the wells.

Figure 6-1: Well Site Progressive Rehabilitation Stages



Long-term operation of the wells requires the retention of a cleared area around each wellhead (indicated as stage 3 in Figure 6-1). The disturbed area outside of the on-going operational area of the well is rehabilitated in the following manner:

- Backfilling excavated areas such as drill pits which are no longer required as part of operation; and
- Rehabilitation, contouring, and revegetating disturbed areas surrounding well surface locations using stockpiled soil.

Upon depletion of the field, the wells are to be decommissioned in accordance with the applicable requirements of the NSW Code of Practice for Coal Seam Gas Well Integrity and all surface structures removed.

The final stage rehabilitation works typically include:

- Preparing Site Specific Rehabilitation Completion Criteria for each well site in consultation with the DP&E-RR and EPA;
- Removing plant and equipment from well surface locations and removal of fenced compounds;
- Filling in excavated areas and trenches;
- Decommissioning of wells in accordance with NSW Code of Practice for Coal Seam Gas Well Integrity;
- Lightly ripping disturbed areas;
- Rehabilitation, contouring, and revegetating disturbed areas;
- Undertaking quarterly inspections of rehabilitated wells until the Site-Specific Rehabilitation Completion Criteria has been fully satisfied and the landowner signs off on the rehabilitation works; and
- Final site inspection with EPA to assess that the rehabilitation works have fully satisfied the Site-Specific Rehabilitation Completion Criteria.

Quarterly inspections were undertaken at rehabilitated wells EM21, EM28, EM31, EM32, EM33, RP02, RP10, RP12, MT05 and WG06 (rehabilitated during current reporting period), RP03, RP04, RP05, RP06, RP11 (rehabilitated during previous reporting period) throughout the reporting period. Rehabilitation works progressed well towards achieving the Site-Specific Rehabilitation Completion Criteria and only minimal weed control and additional reseeded was required across the sites.



During the reporting period, twelve well sites (MT09, MT10, JS01, JS03, JS04, MT05, LP01, WG06, EM02, EM16, GL10, GL16) achieved the Site-Specific Rehabilitation Criteria. Further details are provided in Appendix D.

6.1.3. Gas Gathering System

Initial surface rehabilitation of the gas gathering system occurs at the time of construction.

Upon depletion of the field and the completion of the CGP, the preferred method for final rehabilitation of the gas gathering system would be to purge with air or water to remove remaining gas, seal and leave the valuable infrastructure in position for future beneficial use and to prevent any further environmental disturbance. All gas gathering line marker posts would be removed from the surface.

The rehabilitation method for the gas gathering lines would be subject to consultation with the landowner. Should removal of the gas gathering system be required, the excavated trench would be backfilled and rehabilitated, including contouring and revegetation, the same as the initial rehabilitation following installation of the gathering lines.

6.1.4. Access Roads

Private roads and tracks used during operations will be returned to their pre-operations state, or to a condition agreed by the landholder. As new roads are provided, requirements for, and location of access roads may vary. AGL will work with this to adapt to the evolving nature of road development and access provision in the locality.

The EM33 access road required rehabilitation during this reporting period.

6.1.5. Buildings and Auxiliary Facilities

The provision of offices and auxiliary services for the CGP operations of AGL are located at the RGP site. There was no rehabilitation of buildings and auxiliary facilities during the reporting period.

6.1.6. Other Infrastructure

Rehabilitation of other infrastructure is not required as part of the CGP.

6.2. Rehabilitation Trials and Research

AGL conducts its operations in areas of extensive previous rural use. It avoids wherever possible stands of remnant native or regrowth native flora at the planning stage. As such AGL rehabilitation processes primarily only require the re-establishment of pastureland.

During this reporting period AGL did not undertake or participate in any rehabilitation research or trials.

6.3. Further Development of Final Rehabilitation Plan

In February 2016, AGL announced that it will progressively decommission wells and rehabilitate sites at the CGP prior to ceasing production in 2023. Once production ceases, the wells which are still operational at that time will be decommissioned and the well sites fully rehabilitated. During the next reporting period, AGL will continue planning work for site closure. Site closure is a continuous series of activities undertaken throughout the life of a project, and it is important that these activities occur in a systematic and cost-effective manner. AGL recognises that early planning will ensure that the closure of operations is



technically, socially and economically feasible, and will result in a more satisfactory environmental outcome.

6.4. Rehabilitation Activities Proposed in Next AEPR Period

Planned decommissioning and surface rehabilitation activities during the next AEPR reporting period will include EM22, EM34, MP05, SL09 WG01 and WG05 well sites.

6.5. Further Improvements

Over the forthcoming reporting period, AGL will continue to develop the CGP in accordance with the CGP EMS and AGL's Health, Safety and Environment Management System which is based on ISO 14001: 2004.

6.6. Closure Plan

In February 2016, AGL announced that it will progressively decommission wells and rehabilitate sites at the CGP prior to ceasing production in 2023. Once production ceases, the wells which are still operational at that time will be decommissioned and the well sites fully rehabilitated. AGL will continue planning for site closure and progressively decommission each well in accordance with the NSW Code of Practice for Coal Seam Gas Well Integrity as each well reaches the end of its production. Details of wells planned to be decommissioned will be provided to the DP&E-RR within the POP.



7. Project Commitments Register

AGL understands that the Project Commitments Register (PCR) was implemented by Sydney Gas during project start-up phase. The purpose of the PCR was to keep the Department of Planning informed on the implementation of commitments and initiatives made by Sydney Gas for the construction phase of the RPPG and wells associated with the Development Consent (DA 282-6-2003i, Schedule 3 Condition 18). The Development Consent was issued to Sydney Gas in 2004.

Based on the findings of previous Independent Environmental Audits dating back to 2006-2008, AGL understands that DA 282-6-2003i, Schedule 3 Condition 18 was satisfied and closed out by Sydney Gas. AGL currently operates a compliance management system and has implemented an Environmental Management Plan to ensure compliance with all Development Consent and Licence conditions for the remaining operations phase of the Camden Gas Project.

Appendix M includes a summary of compliance with all Development Consent and Project Approval conditions.



8. Stakeholder Engagement

This Section of the AEPR describes stakeholder engagement that has been undertaken during the reporting period.

8.1. Environmental Complaints

8.1.1. Stakeholder Management

A complaint handling procedure has been established for the CGP operations. AGL has a 24-hour contact telephone number (1800 039 600) which allows the community to raise issues or concerns that relate to the operations of the Project.

This number is included on signs at property entries and well site compounds as well as on notifications to landowners and the Camden Gas Project website.

Complaints are entered into a complaints database which triggers AGL personnel to undertake an investigation. Relevant site personnel are also notified to resolve issues and to make them promptly aware of the concern.

Resolution details are communicated directly to the complainant and are presented at the next CCC meeting.

8.1.2. Complaints Register Requirements

This section provides a summary of the environmental complaints received and management actions taken to address issues. The requirement for a complaints register to be maintained and complaints' actions is outlined in the following Development Consents as well as the EPL 12003 for the RGP:

- DA 246-8-2002-I Schedule 3, Clause 15;
- DA 282-6-2003-i Schedule 5, Clause 19;
- DA 15-1-2002i Schedule 3, Clause 29; and
- DA 75-4-2005 Schedule 2, Clause 59.

The requirements detailed in the above Development Consents are similar with only minor differences in wording between the different approval documents.

In summary, the Development Consents require the applicant to record details of all complaints received in an up to date register and record but not necessarily limited to the following:

- 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. A record of the complaint must be kept for at least 4 years after it was made.

8.1.3. Summary of Environmental Complaints

No community complaints regarding environmental concerns were received during this reporting period.

8.1.4. Complaint Trend

The number of complaints received in the 2018-2019 reporting period was consistent with the previous reporting period.

8.2. Community Consultative Committee

8.2.1. Monitoring Requirement

The requirement for a CCC is outlined in the following Development Consents:

- DA 246-8-2002-I Schedule 3, Clause 31;
- DA 282-6-2003-i Schedule 5, Clause 17;
- DA 15-1-2002i Schedule 3, Clause 90;
- DA 75-4-2005: Schedule 2 Clause 61;
- PA 06_137: Schedule 4, Clause 8;
- PA 06_138: Schedule 4, Clause 8; and
- PA 06_0291 Schedule 4, Clause 8.

The requirements detailed in the above Development Consents are similar with only minor differences in wording between the different approval documents.

In summary, the Development Consents require that a CCC is established 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.



8.3. Community Engagement

AGL has pro-actively engaged with the community to keep residents informed of the CGP and ensure that community interests are listened to and addressed. AGL has raised awareness of its activities and created a strong relationship with the community through a range of community engagement initiatives which include:

- Employment of a permanent Community Relations Manager for the CGP;
- Consultation with affected landholders;
- Hosting community member and industry stakeholder site tours and information sessions;
- Listening to and addressing community concerns through monitoring initiatives and studies;
- Participation in community events;
- Volunteering with local initiatives;
- Ensuring the AGL Camden Website is regularly updated; and
- Distributing community consultation material at local events.

A considerable amount of consultation has taken place directly with each landowner. This has ensured that their interests can be quickly understood and specifically addressed.

The CCC was formed in early 2003. The purpose of the committee is to provide a forum of open discussion between AGL and the community. It is aimed at facilitating good working relationships among committee members and to act as a channel to assist AGL in improving communication, education and notification within the general community.

The committee consists of:

- Chairperson;
- Camden Council;
- Campbelltown City Council;
- Wollondilly Shire Council;
- Five Community Members; and
- Two AGL Members.

AGL plans to continue to pro-actively engage the community for the duration of the project.

8.3.1. Community Consultative Committee (CCC)

CCC meetings were undertaken on the following dates:

- July 2018 (No meeting, quarterly update provided);
- No. 53: 12 September 2018;
- December 2018 (No meeting, quarterly update provided); and
- No. 54: 27 March 2019.

CCC meeting minutes and presentations are made available on the CGP project website once they have been accepted by the CCC within three weeks of the meeting (as per the NSW Department of Planning & Environment *Community Consultative Committee Guidelines*, November 2016). During the previous reporting period, the CCC agreed to reduce meeting frequencies from quarterly to twice per year. In addition to this, AGL will provide project updates in electronic format each quarter when CCC meetings are not held.

The following table outlines a summary of actions arising from meetings and their status at the time of this document's publication.

Table 8-1: CCC Meeting Action Items (1 July 2018 to 30 June 2019)

Action Item	Responsible	Status
Meeting 53: 12 September 2018		
Additional documentation on well decommissioning to be forward to CCC for further reference.	AGL/EPA	Completed
Progress follow up with successful Local Community Investment Program applicants	AGL	Completed
Meeting 54: 27 March 2019		
Links to video compilations outlining how AGL has been supporting local community projects to be shared with CCC.	AGL	Completed

8.3.2. Other Consultation and Community Support

The following consultation processes have also been undertaken during this reporting period:

- Community Consultative Committee meetings;
- Camden Show sponsor and stall holder;
- Email updates to Camden, Wollondilly and Campbelltown Local Governments;
- Email and phone updates to local State Members of Parliament in the project area;
- AGL's Camden Website updated regularly www.agl.com.au/camden;
- Regular project updates and advertorials placed in the Macarthur Chronicle, Wollondilly Advertiser and Camden-Campbelltown Advertisers to update the community on the project;
- Providing grants to local community groups including Camden Rugby, Macarthur Beekeepers, Macarthur Centre for Sustainable Living, Macarthur Diversity Services, Mother Hubbards Cupboard, Picton ANZAC Day Committee, Picton Community Carols, Picton Historical Society, Picton Strings, Tahmoor Netball Club, Youth Solutions, Cawdor Public School, Campbelltown Community Preschool, Douglas Park little Athletics; and
- Sponsorship of local organisations and charities including Camden Show, Youth Solutions and Yandelora School for Children with mild to severe disabilities.

8.4. Site Visits

During the reporting period, the following site visits were completed:

- EPA site inspections to producing well sites; and
- EPA and DP&E-RR site inspections to well sites during decommissioning and rehabilitation.



9. Summary of Environmental Non-Compliance Issues and Actions

9.1. Identification of Environmental Non-Compliance Issues

This section describes the performance of the CGP against AGL's environmental regulatory requirements (listed in Section 3.1 of this AEPR). AGL reviews its environmental regulatory requirements through the following process:

- Review during EPL Annual Return process;
- Weekly CMO review;
- Annual revision of the CGP EMP (and Sub Plans, as required);
- Independent Environmental Audits; and
- Regulatory audits and inspections completed during the reporting period.

This section provides a summary of the environmental non-compliances identified during this reporting period.

9.1.1. Annual Return

Non-conformances with EPL 12003 are reported in the Annual Return to EPA. The 2018 Annual Return for EPL 12003 (covering the period of 22 December 2017 to 21 December 2018) was submitted to the EPA on 13 February 2019 in accordance with the EPL.

There were no non-compliances with the EPL reported within the Annual Return.

9.1.2. June 2016 Flood Event

In June 2017 the EPA commenced proceedings against AGL Upstream Investments Pty Limited, alleging that AGL had contravened a condition of EPL 12003. The alleged offence relates to a flood event that occurred in early June 2016 and impacted the Camden Gas Project.

As at the date of this Report the appeal is ongoing. There is no allegation that environmental harm occurred.

9.1.3. Non-Compliances Identified During Independent Environmental Audit 2014 – 2016 Independent Environmental Audit

During the reporting period, an IEA was undertaken by Treo Environment for the period of 1 July 2015 to 30 June 2018. The audit assessed whether the CGP had complied with the relevant standards, performance measures, and statutory requirements, as outlined in:

- PA 06_0137 (Razorback)
- PA 06_0138 (EMAI)
- PA 06_0291 (Spring Farm and Menangle Park)
- DA 15-1-2002-I (Apap, Joe Stanley, Johndilo, Loganbrae, Lipscombe and Mahon);
- DA 246-8-2002-I (Kay Park);
- DA 282-6-2003-I (RPGP, Rosalind Park, Wandinong, EMAI (EM01-20, 40));
- DA 183-8-2004-I (Mt Taurus and Menangle Park);
- DA 9-1-2005 (Glenlee Wells);
- DA 75-4-2005 (Sugarloaf Farm);
- Environment Protection Licence 12003;
- Water Access Licences (2);



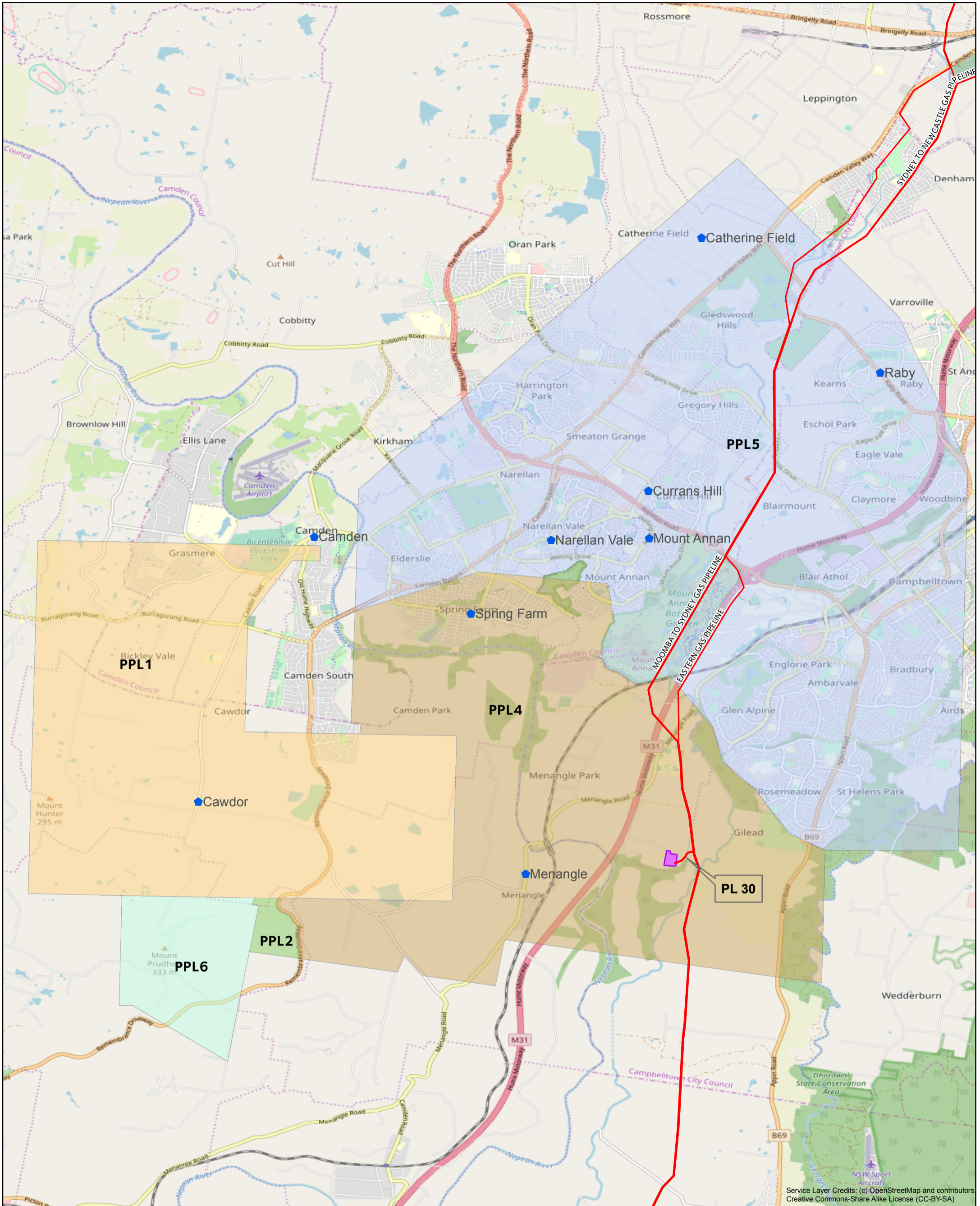
- Works and Usage Approvals (2);
- Industrial bore licences (8); and
- Petroleum Production Leases (5).

A summary of the corrective actions from the 2015-2018 IEA is provided at Appendix F.



Appendix A. Camden Gas Project Petroleum Production Lease (PPL) Locations

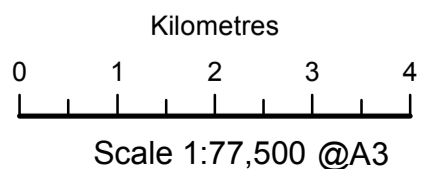
Camden Gas Project PPL Locations



Service Layer Credits: (c) OpenStreetMap and contributors
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Author: Gas Operations
Date: 07/06/2019
Ref: 1652R4



- Legend**
- PPL 1
 - PPL 2
 - PPL 4
 - PPL 5
 - PPL 6
 - Towns
 - Gas Pipelines
 - RPGP



Disclaimer: While AGL has taken great care and attention to ensure the accuracy of the data represented on this map, no liability shall be accepted for any errors or omissions. No part of this map may be reproduced without prior permission of AGL.

Appendix B. Camden Gas Project Property Details

Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
Apap	AP 02* & AP03*	11	664430	15-1-2002i (Mod 4 July 07)
Campbelltown Council – Menangle Park	Gas gathering system	3 7 1	236059 787284 249393	282-6-2003i (Mod 26 August 2004)
	Water storage tank	1-3	1187569	282-6-2003i (Mod 26 August 2004)
Joe Stanley	JS 01, JS 03 & JS 04	2	14701	15-1-2002i
Johndilo	JD 01 & JD 08*	2	1200380	15-1-2002i
Johndilo	JD 11	1	1180187	15-1-2002i
Lipsombe	LP 01	100	793384	15-1-2002i
Logan Brae	LB 06 & LB 09 – LB 11	6	808569	15-1-2002i
Landcom	Gas gathering system	D 2006-2013	19853 1234643	282-6-2003i (Mod 26 August 2004)
Kay Park	KP 01 – KP 03	2	594242	246-8-2002i
	KP 05 & KP 06	2	594242	246-8-2002i (Mod 4 July 2007 & Mod 20 April 2011)
EMAI	EM 01, EM 05 – EM 08	2	1050479	282-6-2003i (Mod 26 August 2004)
	EM 09 – EM 17	2	133910	282-6-2003i (Mod 26 August 2004)
	EM 18 - EM 20	1	130288	282-6-2003i



Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
	EM 21 (EM 1H), & EM 22 (EM 1V)	2	133910	9-1-2005
	EM 24-26*, 27, 29*-32	1	130288	PA 06_0138
	EM 28	2	133910	PA 06_0138
	EM 33-35*, 36*	2	1050479	PA 06_0138
	EM 37	2	1050479	PA 06_0138 (Mod 6 August 2007)
	EM 38	1	130288	282-6-2003i (Mod 4 July 2007)
	EM 39	2	1050479	282-6-2003i (Mod 11 April 2008)
	Gas gathering system	1 1 11 PT1	130288 726446 658458 168893	282-6-2003i (Mod 26 August 2004)
Glenlee	GL 02, GL 04	22	1125616	9-1-2005
	GL 05, GL 7-GL 9	38	1098588	282-6-2003i
	GL 06	2	1076817	9-1-2005
	GL 11	22	1125616	9-1-2005
	GL 12, GL13	22	1125616	9-1-2005
	GL14, GL15	1102	883495	282-6-2003 (Mod 16 May 2006)
	GL 16	38	1098588	282-6-2003 (Mod 16 May 2006)



Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
	GL 17	38	1098588	282-6-2003 (Mod 11 April 2008)
	Gas gathering system	1102 38	883495 1098588	282-6-2003i (Mod 26 August 2004)
Menangle Park	MP 13-MP 17, MP25	10	1022204	183-8-2004-i
	MP30	10	1022204	183-8-2004-i (Mod 4 July 2007)
Mt Taurus	MT 01-MT 10	1	954424	183-8-2004-i
Razorback	RB 03* & RB 04*	1	959711	PA 06_0137
	RB 05*	2	572954	PA 06_0137
	RB 07	81	588337	PA 06_0137
	RB 06, RB 08 & RB 09	124	809576	PA 06_0137
	RB 10	82	588337	PA 06_0137
	RB 11 & RB 12	123	809576	PA 06_0137
Rosalind Park	RP 01*- RP 03	3	622362	282-6-2003i
	RP 02	3	622362	282-6-2003i
	RP 04-RP 07	58	632328	282-6-2003i
	RP 08, RP 09	PT35	230946	282-6-2003i
	RP 10-RP 12	2	622362	282-6-2003i
	Rosalind Park Gas Plant	PT35	230946	282-6-2003i

Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
	Gas gathering system	2 & 3 PT35 58	622362 230946 632328	282-6-2003i (Mod 26 August 2004)
Sugarloaf	SL 01*, SL02, SL 03	2	842735	75-4-2005
	SL 04*, SL 06*, SL 07*	3	1007066	75-4-2005
	SL 05*	2	842735	75-4-2005
	SL 08* & SL 09	2	842735	75-4-2005 (Mod 4 July 2007)
Wandinong	WG 01 – WG06	1242	1121129	282-6-2003i (Mod 26 August 2004)
	Gas gathering system	1242	1121129	282-6-2003i (Mod 26 August 2004)
Wollondilly Shire Council – EMAI and Loganbrae	Gas gathering system	Road Reserve		282-6-2003i (Mod 26 August 2004)
El Bethel*	EB 5	21	581462	DA 171-7-2005
	EB 1	201	590247	DA 171-7-2005
	EB 2, EB 3, EB 4, EB 6, EB 9	202	590247	DA 171-7-2005
	EB 7, EB 8, EB 10	203	590247	DA 171-7-2005
Spring Farm	SF01 – 03 (SF17 site), SF04A*	1	1241595	PA 06_0291
	SF05, SF07 – 09 (SF 20 site), SF10*,	1	1007608	PA 06_0291
	Gas gathering system & access roads	13 1 4	1081753 1007608 1007608	PA 06_0291

Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
		2 35 - 38	1076817 1098588	
Menangle Park	MP01 - 03, 09, 10 (MP03 site)	7	253700	PA 06_0291
	MP06*	2 X	790254 378264	PA 06_0291
	MP11	2	737485	PA 06_0291
	MP19*, MP22	11	1234643	PA 06_0291
	MP21*, MP12 & MP23 (MP23 site)	1	598067	PA 06_0291
	MP04*	31	1100981	PA 06_0291
	MP05, MP05A, MP07 & MP08	1	790254	PA 06_0291
	MP33*	1	249393	PA 06_0291
	MP24*	2	236059	PA 06_0291
Menangle Park	Gas gathering system and access roads	1001-1002 7 2 X D 2 8 1 8 31 26 27 1 9 Book 70 Book 80	1234642 253700 790254 378264 19853 737485 249530 598067 253700 1100981 249530 249530 790254 253700 No.447 No. 475	PA 06_0291 (Mod 3 20 Apr 2011)

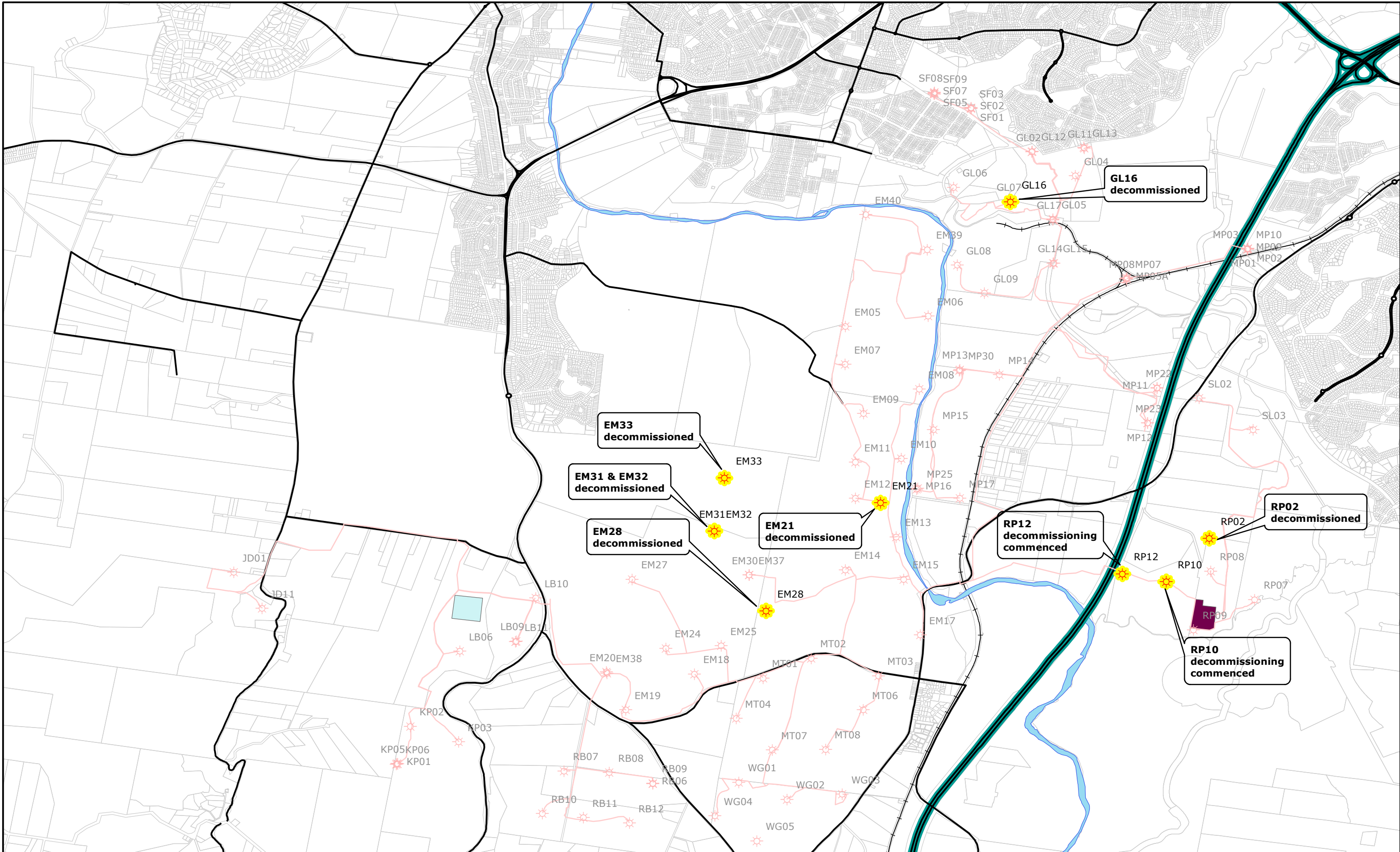



Area	Well Numbers	Property Lot Number	Deposited Plan No.	DA No.
		2	236059	
		3	236059	
		1	249393	
		Menangle Road reserve	Between rail overpass and the Nepean River Bridge	
		63	1104486	
		2	842735	
		1001	734435	
		1002	734436	

*Wells approved but not drilled.



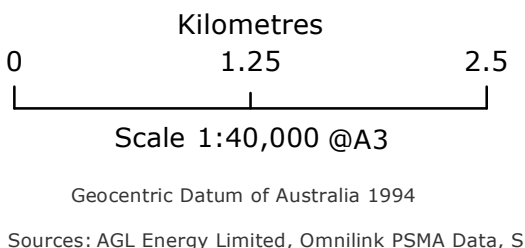
Appendix C. Camden Infrastructure Map for FY2019

Author: Gas Operations
 Date: 25/10/2019
 Ref: 2790R8

Camden Infrastructure Map

Work completed 2018-19



Legend

- Well decommissioned in 2018-19
- Wells
- Gathering Line
- Public Roads
- Hume Highway
- Nepean River
- Railway
- Logan Brae Yard
- RPGP
- Property Boundaries



Disclaimer: While AGL has taken great care and attention to ensure the accuracy of the data represented on this map, no liability shall be accepted for any errors or omissions. No part of this map may be reproduced without prior permission of AGL.



Appendix D. Status of Well Operations FY2019

Changes from the previous reporting period are shaded in grey.

Status of Well Operations

Well Name	Date Drilling Completed	Status of Operation June 2019
AP01	2000	Decommissioned
EB01-10	Incomplete	Approved – Not Drilled (DA now expired)
EM01	Incomplete	Decommissioned
EM05 – 15, 17-20	2005	Operational
EM02, 03, 04	2005	Decommissioned
EM16	2005	Decommissioned
EM21	2002	Decommissioned
EM22	2002	Operational
EM23	2007	Decommissioned
EM24, 25, 27, 30, 34, 37, 38	2007	Operational
EM26, 29, 35, 36	Incomplete	Approved – Not Drilled
EM28, 31, 32, 33	2007	Decommissioned
EM39	2008	Operational
EM40	2006	Operational
GL01	Incomplete	Approved – Not Drilled.
GL02, 04, 05, 06, 07, 08, 09.	2003	Operational
GL03, 10	2003	Decommissioned
GL11	2005	Operational
GL12, 13, 14, 15	2006	Operational
GL16	2006	Decommissioned
GL17	2008	Operational
JD01 and 11	1999	Operational
JD02, 03, 04, 05, 06, 07A, 09 and 10	1999	Decommissioned
JD08	Incomplete	Approved under PEL 2 – Not Drilled
JS01, 03 and 04	1999	Decommissioned
JS02	2000	Decommissioned
KP01, 02 and 03	2002	Operational
KP05	2008	Operational
KP06	2011	Operational
LB01, 02, 03, 04 and 08	Incomplete	Approved – Not Drilled
LB06, 09, 10	2001	Operational
LB05 and 07	2001	Decommissioned
LB11	2007	Operational



Well Name	Date Drilling Completed	Status of Operation June 2019
LP01	Incomplete	Decommissioned
MH01	Incomplete	Decommissioned
MP05, 07, 08	2009	Operational
MP13, 14, 15, 16 and 17	2003	Operational
MP30	2008	Operational
MP04, 06, 19, 21, 24, 33	Incomplete	Approved – Not Drilled
MP01, 05A, 12, 23	2010	Operational
MP02, 03, 09, 10, 11, 22	2011	Operational
MP25	2012	Operational
MT01 02, 03, 04, 06, 07, 08	2004	Operational
MT05, MT09, MT10	2004	Decommissioned
Ray Beddoe Treatment Plant	2001	Decommissioned and rehabilitated (2008)
RB03, 04 and 05	Incomplete	Approved – Not Drilled
RB06, 07, 08, 09, 10, 11 and 12	2007	Operational
Rosalind Park Gas Plant	2004	Operating
RP01	Incomplete	Approved – Not Drilled
RP02	2003	Decommissioned
RP04, 11	2003	Decommissioned
RP03, 05, 06	2003	Decommissioned
RP07, 08, 09	2003	Operational
RP10, 12	2003	Decommissioned
SF 01, 02, 03	2009	Operational
SF 05, 07, 08, 09	2010	Operational
SF04A, 10	Incomplete	Approved – Not Drilled
SL01, SL04, SL05, SL06, SL07, SL08	Incomplete	Approved – Not Drilled
SL02 and SL03	2006	Operational
SL09	2008	Operational
WG01 – 05	2003	Operational
WG06	Incomplete	Decommissioned

Note: Operational wells include all wells that are producing, shut-in and suspended.



Appendix E. Well Site Inspections Against Site Specific Rehabilitation Completion Criteria

Well Name	Inspection Date	Status Against SSRC	Further Action Required
EM16	23/07/18	Rehabilitation in progress	Continue to monitor
	28/09/18	Rehabilitation in progress	Continue to monitor
	23/10/18	Rehabilitation in progress	Continue to monitor
EM28	07/05/19	Rehabilitation in progress	Continue to monitor
	07/06/19	Rehabilitation in progress	Continue to monitor
EM31 - 32	07/06/19	Rehabilitation in progress	Continue to monitor
EM33	07/06/19	Rehabilitation in progress	Continue to monitor
LP01	23/07/18	Rehabilitation in progress	Continue to monitor
	18/10/18	Rehabilitation in progress	Continue to monitor
	29/01/19	Rehabilitation in progress	Continue to monitor
	28/03/19	Rehabilitation in progress	Continue to monitor
MT05	22/10/18	Rehabilitation in progress	Continue to monitor
	29/01/19	Rehabilitation in progress	Continue to monitor
	28/03/19	Rehabilitation in progress	Continue to monitor
RP02	31/01/19	Rehabilitation in progress	Continue to monitor
RP03	23/07/18	Rehabilitation in progress	Continue to monitor
	18/10/18	Rehabilitation in progress	Continue to monitor
	31/01/19	Rehabilitation in progress	Continue to monitor
RP04	23/07/18	Rehabilitation in progress	Continue to monitor
	18/10/18	Rehabilitation in progress	Continue to monitor
	31/01/19	Rehabilitation in progress	Continue to monitor
RP05	23/07/18	Rehabilitation in progress	Continue to monitor
	18/10/18	Rehabilitation in progress	Continue to monitor
	05/11/18	Rehabilitation in progress	Continue to monitor
	31/01/19	Rehabilitation in progress	Continue to monitor
RP06	23/07/18	Rehabilitation in progress	Continue to monitor
	28/09/18	Rehabilitation in progress	Continue to monitor
RP10	20/09/18	Rehabilitation in progress	Continue to monitor
	10/12/18	Rehabilitation in progress	Continue to monitor
RP11	23/07/18	Rehabilitation in progress	Continue to monitor
	28/09/18	Rehabilitation in progress	Continue to monitor
	10/12/18	Rehabilitation in progress	Continue to monitor
RP12	31/01/19	Rehabilitation in progress	Continue to monitor
WG06	22/10/18	Rehabilitation in progress	Continue to monitor



Well Name	Inspection Date	Status Against SSRC	Further Action Required
	29/01/19	Rehabilitation in progress	Continue to monitor
	28/03/19	Rehabilitation in progress	Continue to monitor



Appendix F. 2015-2018 Independent Audit Report – Non-Conformances Corrective Actions Register

Development Consent and Condition Number	Action	Finding	Status	Action Taken by AGL
DA282-6-2003 Sch 4 Condition 11(f)	Discuss the estimated light levels from the RGP flare within the 2018-19 Annual Environmental Performance Report and compare to Table 2 of URS (2003).	Non-Compliant (low risk)	Complete	Appendix J of the 2018-19 AEPR now includes a comparison of estimated light levels, flare frequency and flare duration between the RGP flare events and predictions in Table 2 of URS (2003).
DA282-6-2003 Sch 4 Condition 14	Engage an independent arborist every two years to monitor the condition of the RGP vegetation.	Non-Compliant (low risk)	Complete	Independent arborists Accurate Tree Assessments were approved by the Department of Planning, Industry and Investment and completed the RGP vegetation monitoring.
PA06_0291 Condition 3.7	Undertake noise monitoring during well workovers and any changes in the status of wells within PA06_0291.	Non-Compliant (low risk)	Complete	Wilkinson Murray have been engaged to conduct attended noise monitoring during well workovers in the Spring Farm and Menangle Park fields.
PA06-0291 Condition 3.24 a-d PPL Condition 8	Provide written notification of planned maintenance activities to landowners and affected stakeholders at least 14 days prior to commencement of works.	Non-Compliant (low risk)	Complete	Written notification of planned maintenance activities at the SF05 well were provided to landowners and affected stakeholders at least 14 days prior to commencement of works.
EPL 12003 Condition O2.1 Condition M2.1 Condition M2.3 Condition M2.4	As a result of an equipment failure for the continuous emissions monitoring system, Condition O2, M2.1, M2.3 and M2.4 could not be met until 14 December 2017, when the EPA issued a variation to EPL 12003.	Non-Compliant (low risk)	Complete	On 14 December 2017, the EPA issued a variation to EPL 12003 in respect to the CEMS related conditions.



<p>Protection of the Environment Operations Act 1997 Section 66(6)</p>	<p>Upload monitoring reports to the AGL website within 14 business days of receiving the report.</p>	<p>Non-Compliant (low risk)</p>	<p>Complete</p>	<p>AGL's compliance management system was updated with a new action to trigger the report to be uploaded to the AGL website by the due date.</p>
<p>PPL Condition 10d iv</p>	<p>Ensure that the gas and water makes and compositions are routinely recorded in the plug and abandonment reports.</p>	<p>Non-Compliant (low risk)</p>	<p>Complete</p>	<p>The format of the Plug and Abandonment Reports has been updated to include details on the gas and water makes and compositions.</p>
<p>PA06_0137 Sch 2 Condition 7 PA06_0138 Sch 2 Condition 10</p>	<p>Confirm the required process for surrendering approvals with the DP&E.</p>	<p>Observation</p>	<p>Complete</p>	<p>Following completion of the IEA, AGL located previous written correspondence to the DP&E (dated 19 April 2016) formally surrendering wells that were approved under the two Project Approvals but not drilled by AGL.</p>
<p>EPL 12003 Condition L3.1</p>	<p>Review operations of Point 4 to ensure NOx emissions are maintained below the licence concentration limit.</p>	<p>Observation</p>	<p>Complete</p>	<p>An external boiler specialist was engaged after the audit period, during the September 2018 and December 2018 quarterly stack testing, to assess NOx emissions and investigate means of NOx reductions from Point 4</p>



Appendix G. Air Quality Monitoring Results Reported in 2018 Annual Return

EPA Monitoring Point 1							
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample	License Limit
Carbon dioxide	%	4	4	5.0	5.3	5.5	N/A
Dry gas density	Kg/m ³	4	4	1.31	1.31	1.31	N/A
Moisture	%	4	4	3.6	7.6	9.6	N/A
Molecular weight of stack gases	g/g-mole	4	4	29.4	29.4	29.5	N/A
Nitrogen Oxides	mg/m ³	4	4	98	282	390	461
Oxygen (O ₂)	%	4	4	10	10.9	12	N/A
Sulfuric acid mist and sulphur trioxide (as SO ₃)	mg/m ³	4	4	0.015	0.116	0.160	5.0
Sulphur dioxide	mg/m ³	4	4	0.0	0.0	0.0	7
Temperature	Degrees Celsius	4	4	318	358	375	N/A
Velocity	m/s	4	4	27.0	28.3	29.0	N/A
Volumetric flowrate	m ³ /s	4	4	2.6	3.0	3.2	N/A

EPA Monitoring Point 2							
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample	License Limit
Carbon dioxide	%	4	4	11.8	12.1	12.6	N/A
Dry gas density	Kg/m ³	4	4	1.34	1.34	1.35	N/A
Moisture	%	4	4	16.0	18.0	20.0	N/A
Molecular weight of stack gases	g/g-mole	4	4	30.0	30.1	30.2	N/A
Nitrogen Oxides	mg/m ³	4	4	6.7	46	69	461
Oxygen (O ₂)	%	4	4	0.0	0.2	0.6	N/A
Sulfuric acid mist and sulphur trioxide (as SO ₃)	mg/m ³	4	4	0.020	0.078	0.180	5.0
Sulphur dioxide	mg/m ³	4	4	0.0	0.0	0.0	7
Temperature	Degrees Celsius	4	4	421	440	469	N/A
Velocity	m/s	4	4	25.0	26.0	27.0	N/A
Volumetric flowrate	m ³ /s	4	4	0.92	0.94	0.96	N/A

EPA Monitoring Point 3							
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample	License Limit
Carbon dioxide	%	4	4	11.1	11.5	12.0	N/A
Dry gas density	Kg/m ³	4	4	1.34	1.34	1.34	N/A
Moisture	%	4	4	17.0	19.3	21.0	N/A
Molecular weight of stack gases	g/g-mole	4	4	29.9	30.0	30.1	N/A
Nitrogen Oxides	mg/m ³	4	4	11.0	92.0	130	461
Oxygen (O ₂)	%	4	4	0.6	0.9	1.4	N/A
Sulfuric acid mist and sulphur trioxide (as SO ₃)	mg/m ³	4	4	0.0	0.0	0.0	5.0
Sulphur dioxide	mg/m ³	4	4	0.0	0.0	0.0	7
Temperature	Degrees Celsius	4	4	416	430	463	N/A
Velocity	m/s	4	4	21.0	22.5	25.0	N/A
Volumetric flowrate	m ³ /s	4	4	0.77	0.82	0.88	N/A

EPA Monitoring Point 4							
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample	License Limit
Carbon dioxide	%	4	4	3.5	4.1	5.0	N/A
Dry gas density	Kg/m ³	4	4	1.31	1.31	1.31	N/A
Moisture	%	4	4	7.5	8.9	9.5	N/A
Molecular weight of stack gases	g/g-mole	4	4	29.3	29.3	29.4	N/A
Nitrogen Oxides	mg/m ³	4	4	56	88	110	110
Oxygen (O ₂)	%	4	4	11.9	13.8	14.9	N/A
Sulfuric acid mist and sulphur trioxide (as SO ₃)	mg/m ³	4	4	0.000	0.005	0.020	3.5
Sulphur dioxide	mg/m ³	4	4	0.0	0.0	0.0	35
Temperature	Degrees Celsius	4	4	228	270	309	N/A
Velocity	m/s	4	4	2.8	3.1	3.2	N/A
Volumetric flowrate	m ³ /s	4	4	0.07	0.07	0.08	N/A



EPA Monitoring Point 5							
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample	License Limit
Carbon dioxide	%	4	4	13.1	14.6	16.8	N/A
Dry gas density	Kg/m ³	4	4	1.35	1.36	1.38	N/A
Moisture	%	4	4	31.0	43.0	52.0	N/A
Molecular weight of stack gases	g/g-mole	4	4	30.2	30.5	30.8	N/A
Nitrogen Oxides	mg/m ³	4	4	0.0	0.0	0.0	13
Oxygen (O ₂)	%	4	4	0.0	1.1	2.8	N/A
Sulfuric acid mist and sulphur trioxide (as SO ₃)	mg/m ³	4	4	0.000	0.000	0.000	35
Sulphur dioxide	mg/m ³	4	4	0.0	0.0	0.0	1042
Temperature	Degrees Celsius	4	4	70	78	83	N/A
Velocity	m/s	4	4	0.00	0.00	0.0	N/A
Volumetric flowrate	m ³ /s	4	4	0.00	0.00	0.00	N/A



EPA Monitoring Point 6						
Pollutant	Unit of measure	No. of Samples Required by license	No. of Samples Collected and Analysed	Lowest Sample value	Mean of Sample	Highest Sample
Carbon dioxide	%	4	4	0.00	0.00	0.00
Dry gas density	Kg/m ³	4	4	1.29	1.29	1.29
Moisture	%	4	4	0.9	1.1	1.2
Molecular weight of stack gases	g/g-mole	4	4	29.00	29.00	29.00
Odour	Odour units	4	4	15	255	830
Oxygen (O₂)	%	4	4	20.9	20.9	20.9
Temperature	Degrees Celsius	4	4	22.0	29.0	34.0
Velocity	m/s	4	4	6.7	6.9	7.1
Volumetric flowrate	m ³ /s	4	4	0.17	0.18	0.18



Appendix H. Assessable Pollutant Results – RPGP

Assessable Pollutant	Assessable Load (Kg)	Load Limit (Kg)
Benzene	26.787	47
Benzo(a) pyrene	0.000	0.27
Fine Particulates	11.153	460
Hydrogen Sulphide	0.494	1.60
Nitrogen Oxides	27,960.505	103,000.00
Nitrogen Oxides – Summer	5,671.054	No limit stipulated
Sulphur Oxides	0.022	3000.00
Volatile Organic Compounds	157.825	33,000.00
Volatile Organic Compounds-Summer	39.456	No limit stipulated



Appendix I. Rosalind Park Gas Plant Quarterly and Annual Noise Monitoring Results

Noise Monitoring Undertaken	Summary of Results
Attended noise monitoring 12 September 2018	Measured noise levels complied with the noise criteria for the sensitive receivers during the day, evening and night-time periods.
Attended noise monitoring 5 December 2018	Measured noise levels complied with the noise criteria for the sensitive receivers during the day, evening and night-time periods.
Attended noise monitoring 4 March 2019	Measured noise levels complied with the noise criteria for the sensitive receivers during the day, evening and night-time period.
Attended noise monitoring 31 May 2019	Measured noise levels complied with the noise criteria for the sensitive receivers during the day, evening and night-time period.
Annual Noise Report Summary (From 2017-18 Annual Noise Compliance Monitoring Report)	All monitoring showed the RGP to be compliant with the relevant operational noise limits set by the EPL and Development Consent No. 282-6-2003-I at both R1 and R7 receiver locations for day, evening and night under typical operating conditions.



Appendix J. Flare Event Monitoring

The RGP flare log is provided in this Appendix from July 2018 to June 2019.

Date	Time	Duration (minutes)	Time Period (Day/Night)	No. Compressor on line	Cause of Flare Occurrence
14/08/2018	18:51-20:23	92	Night	None	Spill Valve/Plant Shutdown
17/10/2018	11:03-11:45	42	Day	None	Spill Valve/Plant Shutdown
19/10/2018	09:23-10:26	63	Day	None	Spill Valve/Plant Shutdown
14/12/2018	12:21-15:05	161	Day	None	Spill Valve/Plant Shutdown
27/01/2019	02:49-05:39	170	Night	None	Spill Valve/Plant Shutdown
27/01/2019	11:24-13:14	110	Day	None	Spill Valve/Plant Shutdown
16/03/2019	07:03-07:21	18	Day	None	Spill Valve/Plant Shutdown
05/04/2019	11:39-11:48	9	Day	None	Spill Valve/Plant Shutdown
18/04/2019	02:36-02:59	23	Night	None	Spill Valve/Plant Shutdown
08/05/2019	09:09-09:42	33	Day	None	Spill Valve/Plant Shutdown
08/06/2019	18:05-18:47	42	Night	None	Spill Valve/Plant Shutdown



Flare Event	Total Frequency (once per)*	2018-19 Average Frequency (once per)	Night-time Frequency (once per)*	2018-19 Average Night-time Frequency (once per)	2018-19 Average Gas Flow Rate per flare event (mmscf/d)	2018-19 Average Estimated Lux Level (Lx) of flare event if viewed from Homestead
Spill Valve	5.8 days	33.18 days	11.4 days	91.25 days	0.4	0.03
Compressor Blowdown (ESD)	21 days	-	42 days	-	-	-
Compressor Blowdown (Shutdown & Unload)	8 days	-	16 days	-	-	-
PSV Discharge	60 to 120 days	-	120 to 240 days	-	-	-
PSV Suction	60 to 120 days	-	120 to 240 days	-	-	-

* = as estimated in URS, 2003

Flare Event	Total Frequency ³ (once per)	Night Time Frequency ⁵ (once per)	Total Duration (each event)	Gas Flow Rate mmscf/d ¹	Estimated Lux Level (Lx) of flare if viewed from Homestead ⁶
1 Spill Valve	5.8 days	11.4 days	4.2 hours	0.4	0.03
2 Compr. Blowdown (ESD)	21 days	42 days	15 minutes	Initially 7.35 reducing to 0.5 at 15 minutes	0.56
3 Compr. Blowdown (Shut down & Unload)	8 days	16 days	8 minutes	Initially 1.35 reducing to 0.57 at 8 minutes	0.11
4 PSV ² Discharge ⁴	60 to 120 days	120 to 240 days	0.5 minutes	20	1.51
5 PSV ² Suction ⁴	60 to 120 days	120 to 240 days	0.5 minutes	30	2.27

Notes:

1. mmscf/day is 1million standard cubic feet per day.
2. PSV = Pressure Safety Valve.
3. The frequency of each event accounts for all three compressors.
4. This is a highly conservative estimate and in practice such events are rare.
5. This is based on flare events occurring 50% during day light hours and 50% during night time hours (i.e. sunrise at 6 am, sunset at 6pm).
6. These estimated Lux levels (from Bassett) are conservative as they do not take account of the screen effects of the earth bunding, the evaporation pit or the trees along Menangle Creek.

Source: 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."

Appendix L. Response to DPI&E and comments on 2017-18 AEPR

DPI&E Comments	Action taken by AGL
<p>June 2016 Flood Event</p> <p>The DPI&E requests AGL include a comprehensive report on court proceedings initiated by EPA in June 2017 in 2018-19 AEPR</p>	<p>AGL included comments in Section 9.1.2 of this report regarding the June 2016 flood event.</p>
<p>Petroleum Operations Plan</p> <p>The DPI&E request that a status update of well MP01 be included in the 2017-18 AEPR as it was part of the 12 wells listed for decommissioning in the 2017 POP review, however no updated well status was mentioned in the 2017-18 AEPR.</p>	<p>AGL responded to the DPI&E on 28 January 2019, advising that amendments to the Executive Summary and Section 4.1.1 Decommissioning had been made to include the status well MP01. AGL consulted the CCC on 14 March 2018 proposing MT05 as an alternative to MP01 for decommissioning within the reporting period. The CCC supported this proposal.</p>
<p>Groundwater related Activities and Compliance</p> <p>The DPI&E request that EPA receive a copy of the <i>Annual Bore Compliance Report (2017-2018)</i> and queried how compliance is assessed in accordance with the Projects WALs and Works and Use Approval conditions.</p>	<p>AGL responded to the DPI&E on 28 February 2019, supplying a copy of the <i>'Annual Bore License Compliance Report 2017-2018'</i> and advising that Table 2.1 and Table 2.2 of the report assess the compliance of the Project.</p>
<p>Waste Management</p> <p>The DPI&E request how compliance was met specifically relating to the WMSP targets, were any non-conformances recorded during the reporting period and were any improvement opportunity improvements identified during the reporting period.</p>	<p>AGL responded to the DPI&E on 28 February 2019, advising that Section 5.7.3 Waste Management was amended to include two improvement opportunities during the reporting period and declare that AGL had no waste management related non-conformances.</p>
<p>Project Commitments Register</p> <p>The DPI&E request AGL to provide evidence on how the projects commitment register is tracked and reported against as it does not meet the requirements of Condition 18 in the DA.</p>	<p>AGL responded on 28 February 2019, that following consultation with the EPA and DP&E-RR, the AEPR was amended in Section 7 Project Commitments Register (page 62) and Appendix M (DA 282-6-2003i Schedule 3 Condition 18 page 111) to describe the status of the Project Commitments Register.</p>
<p>Community Consultative Committee</p> <p>The DPI&E request AGL to provide documentation of DPI&E approval for the reduction in CCC meetings from quarterly to twice per year with updates quarterly in between as EPA were not advised of the DPI&E decision.</p>	<p>AGL responded on the 28 February 2019, advising that prior to the reporting period, on 14 October 2016, the CCC Chairperson sent the attached email to all CCC members (including Peter Bloem - EPA representative for the CCC at the time). The email includes an attachment from DP&E approving the proposal for CCC meetings to be reduced from quarterly to twice per year.</p>



DPI&E Comments	Action taken by AGL
For 2017-18 AEPR Include a complete table of compliance which details compliance with every condition.	AGL has included Appendix M Development Approvals Compliance Summary in this AEPR.
For 2017-18 AEPR Include a table of actions required a result of previous annual reviews.	AGL has included this Table L, describing the actions taken in response to the DPI&E's review of the previous AEPR.

Appendix M. Development Approvals Compliance Summary

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	00	This Approval (DA 15-1-2002i) is for a period of twenty one (21) years from the date of granting of the production lease. Production Lease for this licence area is PPL1 which was issued on 2 September 2002. Hence, DA 15-1-2002i lapses 21 years from 2 September 2002 which is on 2 September 2023. The conditions below have been updated up to and including MOD 24-3-2007 (dated July 2007).	Compliant	No action required for this condition during the reporting period
DA 15-1-2002i-	01	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	02	2. The 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; , (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; , (k) Modification Application MOD 24-3-2007 and "Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007; and , (l) 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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	03	This approval is for a period of twenty one (21) years from the date of granting of the production lease.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	04	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	05	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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	06	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). , , Note: The Production Lease to be granted by the DPI 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.	Compliant	Condition previously closed out
DA 15-1-2002i-	07	Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 28 wells) or a new treatment plant. These shall be the subject of another development consent or development consents. , 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.,	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	08	For the purposes of this Consent, the redrilling and/or additional fracturing of a well does not constitute wellhead maintenance.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	09	The Applicant shall obtain the approval of the Director-General for the redrilling and/or additional fracturing of a well.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	10	The Applicant shall prepare a Redrilling and Refracting Management Plan in consultation with the DPI 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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	13	The 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.	Compliant	EPL 12003 held by AGL throughout the reporting period
DA 15-1-2002i-	14	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 licence under the POEO Act. The POP will form the basis for:(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.	Compliant	POP is now approved by the DP&E. Latest POP Version 11.1 was approved by DP&E after the reporting period on 17/08/2018.
DA 15-1-2002i-	15	The 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 (DECC, DPI, DWE). 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 ,	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	17	The Applicant shall supply a copy of the EMP to the DECC, DPI, DWE, Wollondilly Council and Camden Council within 14 days of the Director-General's approval. The Applicant shall ensure that a copy of the EMP is publicly available.	Compliant	Condition previously closed out
DA 15-1-2002i-	18	The Applicant shall review and update the EMP regularly, 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.	Compliant	EMP reviewed and updated during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	20	The Applicant shall prepare and implement a Soil and Water Management Plan 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 sediment and other pollutants to lands and/or waters during drilling activities; , (b) the measures to be implemented to mitigate the impacts of stormwater run-off from and within the site following the completion of drilling activities; , (c) 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; , (d) 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; , (e) measures to rehabilitate erosion-affected areas and areas the subject of excavation, including tree, shrub and/or cover crop species and implementation; and , (f) 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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	26	The Applicant shall prepare a Condition Report on residences and structures that may be potentially affected by drilling/fracing work, including the redrilling and refracing 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.	Compliant	Condition previously closed out
DA 15-1-2002i-	27	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, Wollondilly Council and Camden Council within seven days of the date on which the incident occurred.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	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 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.	Compliant	Complaints register maintained for the Project. No complaints during the reporting period.
DA 15-1-2002i-	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 7) 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. ,	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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's Hazardous Industry Planning Advisory Paper No. 9 "Guidelines for the Development of Safety Management Systems".	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan
DA 15-1-2002i-	33	The applicant shall provide an Annual Return to the DECC 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.	Compliant	Annual Return Report completed and submitted to comply with this condition
DA 15-1-2002i-	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. ,	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 15-1-2002i-	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 15-1-2002i-	36	The Applicant shall also submit a copy of the Annual Environmental Performance Report to the DECC, DPI, DWE, Wollondilly Council and Camden Council. The Applicant shall make a copy of the Report publicly available.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 15-1-2002i-	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 DECC and the DPI. The Director-General may require the Applicant to address certain matters identified in the report and any comments received from the DECC and the DPI. Any action required to be undertaken shall be completed within such period as the Director-General may agree. ,	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	38	The Applicant shall comply with the noise criteria specified in the table below.	Compliant	Condition previously closed out
DA 15-1-2002i-	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. , ,	Compliant	Condition previously closed out
DA 15-1-2002i-	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 DECC (refer to Chapter 11 of the NSW Industrial Noise Policy). Details of such an alternative noise assessment method accepted by the DECC shall be submitted to the Director-General prior to the implementation of the assessment method.	Compliant	Condition previously closed out
DA 15-1-2002i-	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 degrees C/100m. , ,	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	43	The Applicant shall implement management practices as necessary to minimise the potential noise impacts from drilling work at wells LB-1, LB2 and LB3. 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 LB1, LB2 and LB3 and updating the information as required.	Compliant	Condition previously closed out
DA 15-1-2002i-	44	The Applicant shall ensure that all construction work, except: , (a) for the drilling (including well casing and grouting) of SIS wells, or , (b) 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 only be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays, 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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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 DECC and affected residences as soon as possible, or within a reasonable period in the case of an emergency.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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 DECC is satisfied that the amenity of the residents in the locality will not be adversely affected.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	47A	Noise from the drilling and construction of AP02 and AP03 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	48	The Applicant shall prepare and submit to the Department and the DECC 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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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 DECC of the levels that can be feasibly and reasonably achieved.	Compliant	Condition previously closed out
DA 15-1-2002i-	50	The PRP is to be submitted to the Department and the DECC 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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	52	In accordance with section 129 of the Protection of the 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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	55	Spray from waste water application shall not drift beyond the boundary of the waste water utilisation area to which it is applied.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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 µS/cm.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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 road.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	60	The Applicant shall take all practicable measures to minimise the generation of wind-blown dust from soil stockpiles.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	60A	The Applicant shall ensure that, during the drilling and construction of APO2 and APO3, 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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	65	The activated carbon filter on the odour control system shall be replaced prior to breakthrough occurring.	Compliant	Condition previously closed out
DA 15-1-2002i-	66	The 200 mm steel pipeline shall not be operated above a pressure of 1.05 MPa.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	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'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's Hazardous Industry Planning Advisory Paper No. 8 "Hazard and Operability Studies".	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period
DA 15-1-2002i-	69	The LPG storage and handling system and procedures shall be in accordance with AS 1596-2002 and industry guidelines.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	73	The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI and the Site Rehabilitation Management Plan.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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 DWE over the implementation of the monitoring program. The monitoring program shall be submitted for the Director-General's approval.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	76	For the purposes of this consent air discharge monitoring points, shall be identified as provided in Table 2 below.	Compliant	Condition previously closed out
DA 15-1-2002i-	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 DECC's Load Calculation Protocol. The assessable pollutants and load limits applicable to this development are given in Table 3 below. 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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	80	29The 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 1.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	82	The Applicant shall submit a report to the DECC, 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 DECC prior to the issue of the licence.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 15-1-2002i-	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.	Compliant	Condition previously closed out
DA 15-1-2002i-	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.	Compliant	Monitoring results confirm compliance with this condition
DA 15-1-2002i-	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 DECC 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".	Compliant	Monitoring results confirm compliance with this condition
DA 15-1-2002i-	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 DECC who asks to see them.	Compliant	Condition satisfied through implementation of the EMP
DA 15-1-2002i-	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.	Compliant	Monitoring results confirm compliance with this condition
DA 15-1-2002i-	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. Note1 : Units of measure, frequency and sampling method to be approved by the DECC in writing.	Compliant	Condition previously closed out
DA 15-1-2002i-	89	The selection of sampling positions is to be carried out in accordance with test method TM1	Compliant	Condition previously closed out
DA 15-1-2002i-	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. ,	Compliant	Condition satisfied through the functioning Community Consultative Committee
DA 15-1-2002i-	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 DPI within a month of the Committee meeting.	Compliant	Condition satisfied through the functioning Community Consultative Committee. All AGL presentations and minutes are available on the CGP website.
DA 15-1-2002i-	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.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	00	This approval is for a period of 21 years from the granting of the production lease. This production lease refers to PPL4 which was granted on 6 October 2004. Hence, 21 years from that date is 6 October 2025. (PPL to be confirmed).	Compliant	No action required for this condition during the reporting period
DA 183-8-2004-i	01	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 183-8-2004-i	02	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 Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007; and (e) Modification Application MOD 13-10-2011, Camden Gas Project: MP25 Environmental Assessment dated October 2011, Response to Submissions dated 17 February 2012 and associated Statement of Commitments dated April 2012 (see Appendix 1); 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, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	03	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 183-8-2004-i	04	This approval is for a period of twenty one (21) years from the granting of the production lease.	Compliant	No action required for this condition during the reporting period
DA 183-8-2004-i	05	Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 17 wells for gas production) or gas gathering lines.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	06	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.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	07	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.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	08	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.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	09	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 wastewater.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	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.	Compliant	Condition previously closed out
DA 183-8-2004-i	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.	Compliant	Condition previously closed out
DA 183-8-2004-i	12	The Applicant is required to store and manage the use and disposal of water in accordance with the current version of the Office of Environment and Heritage's "Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes."	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	13	The Applicant shall undertake the development in a way that minimises the noise generated by the development.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	13A	The Applicant shall ensure that all construction work (except for the 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 and 1.00pm Saturdays, 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.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	13B	Noise from the drilling and construction of MP30 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out
DA 183-8-2004-i	13C	Noise from the drilling and construction of MP25 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out
DA 183-8-2004-i	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.	Compliant	Condition previously closed out
DA 183-8-2004-i	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.	Compliant	Plan completed and submitted to comply with this condition
DA 183-8-2004-i	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 183-8-2004-i	16A	Prior to the commencement of construction of the gas well at MP25, the management plans submitted under conditions 15 and 16 must: (a) be updated by a suitably qualified expert; (b) be re-submitted to the Director-General for approval prior to the commencement of construction activities at the MP25 gas well site; (c) include measures to minimise impacts on surface water and groundwater quality at the MP25 gas well site, including but not limited to: i. using above-ground baffle tanks to contain all drilling fluids during drilling operations; ii. disposing of all drilling fluids and groundwater collected in the baffle tanks at an authorised wastewater treatment facility; iii. ensuring that adequate spill control equipment and materials will be available at drill sites; iv. a contingency plan to address any groundwater brought to the surface that exceeds the capacity of onsite detention structure, and would avoid discharges from the site (otherwise than in accordance with an environment protection licence); and v. ensuring that no hydraulic fracturing occurs and that no fracking fluids containing Benzene, Toluene, Ethylbenzene and Xylene (BTEX) chemicals are used.	Compliant	Condition previously closed out
DA 183-8-2004-i	16B	The Applicant must ensure that the gas well at MP25: (a) is designed in consultation with, and in accordance with the specifications required by, the Division of Resources and Energy (DRE), under the Department of Trade, Investment, Regional Infrastructure and Services (DTIRIS); (b) is cased with steel across the uppermost beneficial-use aquifer layer; (c) has all casing fully cemented from casing shoe to surface, leaving no open annuluses; and (d) has a blow-out prevention device on the wellhead secured to the steel casing, in order to protect the integrity of any underground aquifers, prevent gas escape and maintain groundwater quality.	Compliant	Condition previously closed out
DA 183-8-2004-i	16C	For the gas gathering line between MP30 and MP16, the Applicant shall, to the satisfaction of the Director-General ensure that: (a) pipelines are designed, constructed and operated in accordance with the Australian Standard for Installation and Maintenance of Plastic Pipe Systems for Gas AS 3723-1989 (or its latest version); (b) the route of the gas gathering and water transport systems and access roads follow previously or currently disturbed areas wherever practicable; (c) trenches are not left open overnight, unless adequately covered; (d) open trenching works within 20 metres of watercourses are only undertaken during dry weather conditions; (e) construction activities do not impede lateral water flows; (f) no crown or camber remains along any gas gathering system line, following rehabilitation; (g) signs are erected at intervals along all gas gathering system lines indicating the presence of a buried gas pipeline; and (h) impacts to riparian vegetation and endangered ecological communities are minimised.	Compliant	Condition previously closed out
DA 183-8-2004-i	16D	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.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	16E	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.	Compliant	Condition previously closed out
DA 183-8-2004-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	17A	Prior to the commencement of construction of the gas well at MP25, the management plan submitted under condition 17 must: (a) be updated by a suitably qualified expert to include gas well MP 25; and (b) be re-submitted to the Director-General for approval.	Compliant	Condition previously closed out
DA 183-8-2004-i	18	The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracking of a gas well. , Note: For the purposes of this consent the redrilling and/or additional fracking of a well does not constitute wellhead maintenance.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	20	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.	Compliant	Condition not triggered during the reporting period
DA 183-8-2004-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 183-8-2004-i	21A	Prior to the commencement of construction of the gas well at MP25, the OEMP submitted under condition 21 must: (a) be updated by a suitably qualified expert to include gas well MP 25; and (b) be re-submitted to the Director-General for approval.	Compliant	Condition previously closed out
DA 183-8-2004-i	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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 183-8-2004-i	23	The Applicant shall review and update the OEMP annually, or as directed by the Director-General.	Compliant	EMP reviewed and updated during the reporting period
DA 183-8-2004-i	24	The Applicant shall include the operation of MT1 - MT10 inclusive, MP13 - MP17 inclusive, and MP30, 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.	Compliant	Condition satisfied through preparation and submission of this AEP
DA 183-8-2004-i	25	The Applicant shall include the operation of MT1 - MT10 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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	00	DA 246-8-2002i is valid for 21 years from the date of granting of the PPL 2, which was granted on 10 October 2002. Hence, this DA ceases to be valid on 10 October 2023.	Compliant	No action required for this condition during the reporting period
DA 246-8-2002-i	01	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	02	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; (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; (f) Modification Application DA 246-8-2002i MOD 2 and "Camden Gas Project: Kay Park and Loganbrae Gas Gathering Line Modification Project Statement of Environmental Effects", dated July 2008; (g) Modification Application DA 246-8-2002i MOD 3 titled "Camden Gas Project - Modification KP06 SIS to Directional", dated October 2008; and, (h) Modification Application DA 246-8-2002-i MOD 4 titled "Camden Gas Project: Proposed modification for Development Consent 246-8-2002-i - KP06 SIS well", dated February 2011; and (i) 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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	03	This approval is for a period of twenty one (21) years from the date of granting of the production lease.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	03A	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.	Compliant	Condition previously closed out
DA 246-8-2002-i	04	For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	05	The Applicant shall obtain the approval of the Director-General for the redrilling and/or additional fracing of a well.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	06	The Applicant shall prepare and submit to the Director-General a Redrilling and Refracing 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 refracing of an existing well.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	07	The Applicant shall give written notification of the proposed redrilling/refracing work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	08	Throughout the life of the development, the Applicant shall secure, renew, maintain, and comply with all the relevant statutory approvals applying to the development.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	09	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	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.	Compliant	POP is now approved by the DP&E. Latest POP Version 11.1 was approved by DP&E after the reporting period on 17/08/2018.
DA 246-8-2002-i	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, KP5 and KP6 and the associated gas gathering system.	Compliant	Condition previously closed out
DA 246-8-2002-i	12	The Applicant shall prepare a Condition Report on residences and structures that may be potentially affected by drilling/fracing work, including the redrilling and refracing 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.	Compliant	Condition previously closed out
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the PIRMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Complaints register maintained for the Project. No complaints during the reporting period.
DA 246-8-2002-i	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	19	The Applicant shall implement management practices as necessary to minimise the potential noise impacts from any drilling and fracture stimulation works. 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 these wells;; (b) predicting potential noise levels from the proposed well drilling and fracture stimulation methods where appropriate;; (c) identifying and implementing all reasonable and feasible noise mitigation measures to reduce any noise impacts;; (d) documenting and implementing any specific work practices the Applicant will employ to limit noise;; (e) conducting noise monitoring where appropriate; and, (f) appropriately informing affected residences and other relevant parties at least two weeks in advance of any drilling or fracture stimulation works with a view to negotiating a mutually beneficial time to schedule fracture stimulation works.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	19A	The Applicant shall ensure that all construction work (except for the drilling (including well casing and grouting) of SIS wells), shall only be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays, 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.	Compliant	Condition previously closed out
DA 246-8-2002-i	19B	Noise from the drilling and construction of KP05 and KP06 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	22	Spray from waste water application shall not drift beyond the boundary of the waste water utilisation area to which it is applied.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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 µS/cm.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	27	The Applicant shall take all practicable measures to minimise the generation of wind-blown dust from soil stockpiles.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	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.	Compliant	Condition not triggered during the reporting period
DA 246-8-2002-i	28B	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	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.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	30	The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI and the Site Rehabilitation Management Plan.	Compliant	Condition satisfied through implementation of the EMP
DA 246-8-2002-i	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).	Compliant	Condition satisfied through the functioning Community Consultative Committee
DA 246-8-2002-i	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	00	The Approval shall lapse 21 years from the granting of the production lease. The PPL refers to PPL 4 which was granted on 6 October 2004. 21 years from that date is 6 October 2025. Hence, it lapses on 6 October 2025.	Compliant	No action required for this condition during the reporting period
DA 282-6-2003-i	03.001	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	03.002	The 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	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	03.003	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	03.004	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 282-6-2003-i	03.005	This approval shall lapse twenty one (21) years from the granting of the production lease.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.006	The Applicant shall not exceed the maximum production capacity of 14.5 petajoules per annum, from the gas treatment plant.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.006A	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	03.007	The Applicant must in the opinion of the DECCW 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.	Compliant	EPL 12003 held by AGL throughout the reporting period
DA 282-6-2003-i	03.008	Within 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 DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	03.009	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	03.010	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).	Compliant	Condition previously closed out
DA 282-6-2003-i	03.011	The Applicant shall run verticality logs for new gas wells located within coal exploration titles. , Note: The Petroleum Production Lease that may be granted by the DII 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.012	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.013	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. , 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.014	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. , 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.015	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.016	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	03.017	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.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	03.018	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.	Compliant	Condition previously closed out. AGL understands that the Project Commitments Register (PCR) was implemented by Sydney Gas during project start-up phase. The purpose of the PCR was to keep the Department of Planning informed on the implementation of commitments and initiatives made by Sydney Gas for the construction phase of the RGP and wells associated with the Development Consent (DA 282-6-2003i, Schedule 3 Condition 18). The Development Consent was issued to Sydney Gas in 2004. Based on the findings of previous Independent Environmental Audits dating back to 2006-2008, AGL understands that DA 282-6-2003i, Schedule 3 Condition 18 was satisfied and closed out by Sydney Gas. AGL currently operates a compliance management system and has implemented an Environmental Management Plan to ensure compliance with all Development Consent and Licence conditions for the remaining operations phase of the Camden Gas Project.
DA 282-6-2003-i	03.019	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	03.020	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.001	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").	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.002	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., , 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).	Compliant	Condition previously closed out
DA 282-6-2003-i	04.003	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.004	The Applicant shall take all practicable measures to minimise any off-site lighting impacts from the development.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.005	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.006	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.007	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.008	The Applicant must ensure that wherever possible, any scheduled use of the flare occurs during daylight hours.	Compliant	Monitoring results confirm compliance with this condition

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.009	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.010	The Applicant shall report on the effectiveness of the lighting controls in the AEPR.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 282-6-2003-i	04.011	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."	Non-Compliant (low risk)	Condition 11(f) was recorded as non-compliant in the 2015-18 Independent Environmental Audit. Condition 11(f) now satisfied through amendments to Appendix J of this AEPR.
DA 282-6-2003-i	04.012	The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.013	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.014	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.	Non-Compliant (low risk)	Condition rRecorded as non-compliant in the 2015-18 Independent Environmental Audit. Independent arborists Accurate Tree Assessments were approved by the Department of Planning, Industry and Investment and completed the RPGP vegetation monitoring after the reporting period.
DA 282-6-2003-i	04.015	(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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.016	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.017	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.018	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.019	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.019A	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.019B	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.020	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.021	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.022	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. , Note: The above condition provides protection for breeding raptor species on the EMAL, 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.023	The Applicant shall implement best practice flora and fauna management.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.024	The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the proposed development.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.025	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.026	The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.027	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.028	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.028A	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.028B	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.029	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:	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.029A	Noise from the operation of EM39 and GL17 shall not exceed the noise limits in the table below:	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.030	For the purposes of condition 29, 29A and 31:; (a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public holidays;; (b) Evening is defined as the period 6pm to 10pm;; (c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays; and, (d) 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.031	Noise from flaring events, must not exceed the noise limits in the table below: 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.; 2. 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.032	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 LAeq(15 minute) and LAeq(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 DECCW 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.	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.033	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 3degreesC/100m and wind speed up to 2m/s at 10 metres above the ground. S	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.034	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.034A	Noise from the drilling and construction of GL14 and GL15 shall not exceed the sound pressure level (noise) limits presented in the table below:	Compliant	Condition previously closed out
DA 282-6-2003-i	04.034B	Noise from the drilling and construction of EM38 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out
DA 282-6-2003-i	04.034C	Noise from the drilling and construction of EM39 and GL17 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.035	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.036	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 DECCW'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 DECCW and affected residents as soon as possible, or within a reasonable period in the case of emergency.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.036A	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.037	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.038	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.039	The Applicant shall undertake the development in a way that minimises the noise generated by the development.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.040	The Applicant must submit a noise compliance report to the DECCW 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 DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.041	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".	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.042	The Applicant shall, by 31 January 2011, submit for the Director-General's approval an integrated Noise Management Plan for Stage 1 and Stage 2 of the Camden Gas Project, which has been prepared in consultation with DECCW. Following approval, the plan must be implemented to the satisfaction of the Director-General., This Plan must: (a) fully reflect the requirements of conditions of this consent and all other development consents and project approvals for Stage 1 and Stage 2 of the Camden Gas Project which apply to the management and monitoring of noise emissions; and, (b) include a detailed noise monitoring protocol for evaluating compliance with the limits in conditions 29 and 31, which includes consideration of monitoring under meteorological conditions as required by condition 33 and recording of meteorological conditions during monitoring (including wind speed, wind direction and data suitable for quantifying the presence or otherwise of temperature inversions).	Compliant	Condition previously closed out

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DA 282-6-2003-i	04.043	The Applicant must submit to the DECCW'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:; <input type="checkbox"/> A listing of each incident when the flare operated including the duration, gas discharge rate and cause of the incident;; <input type="checkbox"/> The temperature and volume data for each flare event, as required by Condition 59;; <input type="checkbox"/> The results of noise measurements for flare operation for each flare type event, as required by Condition 31;; <input type="checkbox"/> The results of noise measurements for flare operation for each flare event for receivers at location R7; and, <input type="checkbox"/> An assessment of compliance with noise limits provided in Condition 31. The noise monitoring must be undertaken in accordance with Condition 42. , <input type="checkbox"/> 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.044	The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracing of a gas well., , Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.045	The Applicant shall prepare a Redrilling and Refracing Management Plan in consultation with the DII 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 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/refracing work., , The Applicant shall give written notification of the proposed redrilling/refracing work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.046	The Applicant shall prepare a Condition Report for all residences or structures (including structures on EMA1) 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 DII after completion of the work.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.047	The Applicant shall ensure that air pollutant emissions from the development do not exceed the following criteria at any privately owned residence.	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.050	For 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. Note: The 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.	Compliant	No action required for this condition during the reporting period
DA 282-6-2003-i	04.052	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.053	The Applicant shall take all practical measures to minimise the generation of wind blown dust from soil stockpiles.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.056	At least 1 month prior to the commissioning of the gas Treatment Plant, the Applicant shall submit to the DECCW's Manager Sydney Industry PO Box 668 Parramatta NSW 2124, a report containing the 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 has been achieved.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.057	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 DECCW 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 accordance with the NSW DECCW Guideline 'Approved Methods for the Sampling and Analysis of Air Pollutants in NSW' 20 July 2011 or its latest version.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.060	The Applicant must submit to the DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.061	The Applicant must submit to the DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.062	The Applicant must submit to the DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.063	The 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 DECCW's Manager Sydney Industry at PO Box 668 Parramatta NSW 2124. The results must be received by the DECCW within one month of the date on which the sampling was undertaken for that quarter.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.064	The 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.	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.065	The Applicant must not cause the emission of detectable mercaptan odour from the premises., Note: Should odour emissions become an issue, the DECCW will consider requiring investigation and implementation of further odour control measures.	Compliant	Monitoring results confirm compliance with this condition
DA 282-6-2003-i	04.066	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 the development.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.067	The Applicant shall undertake the development in a way that minimises the potential surface water impacts of the development.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.070	The 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.071	The Applicant must at least one month prior to the completion of construction of the Gas Treatment Plant, submit to the DECCW'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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.073	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. The 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.074	38The 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 the 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.075	The 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.076	The 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 NOW. The Applicant shall submit the plan for approval by the D-G 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., Note: A Part 3A Permit may be required for a road crossing upgrade. NB: R&FI Act has been repealed effective from February 2008.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.077	The Applicant shall advise the Director-General of the proposed stream crossing methods located on EMAI, which are to be assessed and approved by the NOW prior to the issue of the Part 3A Permit.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.078	The Applicant shall ensure that works within 20 m of watercourses are to be undertaken during dry weather conditions.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.079	The 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.080	The Applicant shall implement all practicable measures to minimise soil erosion and the discharge of sediments and water pollutants from the site.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.081	The 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 D-G.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.082	The 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.083	The 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).	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.084	The 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 "Managing Urban Stormwater: Soils and Construction" or its latest version; (e) consistency with the stormwater management plan for the catchment, should one exist, or with the DECCW's "Managing Urban Stormwater: Soils and Construction" should a stormwater management plan for the catchment not exist; (f) any DECCW 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.084A	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 (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, e) describe what measures would be implemented to maintain (and if necessary, decommission) the structures over time.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.084B	The Applicant shall obtain a Controlled Activity Approval under the Water Management Act 2000 from NOW 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 NOW and the Director-General.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.085	The 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.086	Within 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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.087	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.088	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. 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.088A	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.088B	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 GL17 Modification Project".	Compliant	Condition previously closed out
DA 282-6-2003-i	04.089	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.090	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 2003.5 , , 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.090A	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.091	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".	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.092	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".	Compliant	Condition previously closed out
DA 282-6-2003-i	04.093	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.094	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.095	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 DII in August 1992 where equipmentand/or pipeline are on a Production Lease.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.096	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 PlantThe 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 SitesThe 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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.097	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.098	Note: 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 Protection of the Environment Operations Act 1997. , The Applicant must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997.	Compliant	No action required for this condition during the reporting period
DA 282-6-2003-i	04.099	Except as provided by any other condition of this consent, only the hazardous and/or industrial and/or Group A waste listed below may be generated and/or stored at he , premises: , -- Waste oil/water, hydrocarbons/water mixtures or emulsions.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.105	Any 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.106	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.107	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).	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.108	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.109	The Applicant shall ensure that all heavy vehicles only travel along access roads designated for such vehicles.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.110	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.111	On completion of drilling and fracturing activities, the Applicant shall rehabilitate soils affected by compaction. This rehabilitation shall be conducted in consultation with a representative from EMAI.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.112	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.113	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.114	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.115	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. , 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. See referenceto Schedule 4 Condition 119- to demonstrate ongoing compliance with this condition	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan
DA 282-6-2003-i	04.116	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".	Compliant	Condition previously closed out
DA 282-6-2003-i	04.117	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."	Compliant	Condition previously closed out
DA 282-6-2003-i	04.118	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.119	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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	04.120	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.121	The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DII.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.122	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	04.123	The 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.124	The 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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.125	The 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., Note: The Director-General may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	04.126	The Applicant shall submit a written report at least one month prior to the commissioning of the flare, to the DECCW'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., Note: This condition confirms the gas flare structure and specifications.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.127	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	04.128	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	05.01	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	05.02	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	05.03	The Applicant shall supply a copy of the CEMP and OEMP to the DECCW, DII, 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.	Compliant	Plan completed and submitted to comply with this condition
DA 282-6-2003-i	05.04	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.	Compliant	EMP reviewed and updated during the reporting period
DA 282-6-2003-i	05.05	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 282-6-2003-i	05.06	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 282-6-2003-i	05.07	The Applicant shall also submit a copy of the Annual Environmental Performance Report to the DECCW, DII, Camden Council, Campbelltown City Council and Wollondilly Shire Council. The Applicant shall make a copy of the Report publicly available.	Compliant	Report completed and submitted to comply with this condition
DA 282-6-2003-i	05.08	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 fracking 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).	Compliant	Condition previously closed out
DA 282-6-2003-i	05.09	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.	Compliant	Condition previously closed out
DA 282-6-2003-i	05.10	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	05.11	Within two months of commissioning the audit, the Applicant must submit a copy of the audit report to the Director-General, DECCW and the DII.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	05.16	The Applicant shall provide an Annual Return to the DECCW 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.	Compliant	Annual Return Report completed and submitted to comply with this condition

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	05.17	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.	Compliant	Condition satisfied through the functioning Community Consultative Committee
DA 282-6-2003-i	05.18	The Applicant shall: (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 DII within a month of each Committee meeting.	Compliant	Condition satisfied through the functioning Community Consultative Committee
DA 282-6-2003-i	05.19	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 DECCW or the Director-General upon request. The Applicant shall also make summaries of the register, without details of the complainants, available for public inspection.	Compliant	Complaints register maintained for the Project
DA 282-6-2003-i	05.20	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.	Compliant	Condition satisfied through implementation of the PIRMP and ERP
DA 282-6-2003-i	07.01	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 NOW.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.02	Prior to the issue of the Part 3A permit the applicant must provide the NOW with the following: * A copy of the development consent including all conditions of approval; * Plans and/or other documentation (3 copies) that satisfy the NOW's General Terms of Approval and recommendations which are included in the consent conditions; and * The appropriate permit fee paid to the NOW.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.03	Work is to be carried out in accordance with drawings and any management plans required by these conditions and approved by the NOW that will accompany the 3A permit.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.04	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.05	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 NOW with a view to preventing degradation of the stream bed or banks.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.06	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.07	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.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	07.08	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.09	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").	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	07.10	The excavation of soil/spoil and its removal is the responsibility of the permit holder and the owner or occupier of the land.	Compliant	Condition satisfied through implementation of the EMP
DA 282-6-2003-i	07.11	The approval of NSW Fisheries is required for all proposed designs of in-stream works prior to the issue of the Part 3A permit.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 282-6-2003-i	07.12	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.13	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.14	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.15	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.16	Any Part 3A permit granted is not transferable to any other person or company without the written approval of the NOW and does not authorise works at any other site.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.17	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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.18	Work as executed survey plans of a professional standard shall be provided to the NOW upon request.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.19	If, in the opinion of a the NOW 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.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.20	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 NOW. If any breach of the permit conditions requires a special site inspection by the NOW, then the permit holder shall pay a fee prescribed by the NOW for this inspection and all subsequent breach inspections.	Compliant	Condition not triggered during the reporting period
DA 282-6-2003-i	07.21	If works are to cease prior to completion the NOW must be notified in writing one month in advance of the cessation of the operation.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	00	This approval (DA 75-4-2005) shall lapse within 21 years of the date of this consent or on the expiry date of PPL 4, whichever is the shorter period. This Approval was granted on 7 October 2005 and would expire on 7 October 2026. PPL4 was granted on 6 October 2004 and expires on 5 October 2025. Hence, DA 75-4-2005 lapses on the expiry of PPL4.	Compliant	No action required for this condition during the reporting period
DA 75-4-2005	01	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	02	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 "Camden Gas Project Joint Venture Gas Well and Gathering Line Modification Project Statement of Environmental Effects", dated March 2007;(j) Modification Application DA 75-4-2005 MOD 2 and letter dated 18 December 2009;(k) EA titled "Spring Farm and Menangle Park Gas Gathering System Modifications – Gasgathering line MP22 to SL02" prepared by AGL Gas Production (Camden) Pty Ltd, and dated 7 December 2010; and(l) conditions of this approval.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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	03	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 75-4-2005	04	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.	Compliant	No action required for this condition during the reporting period
DA 75-4-2005	05	Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 9 wells for gas production).	Compliant	No action required for this condition during the reporting period
DA 75-4-2005	06	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.	Compliant	Condition previously closed out
DA 75-4-2005	07	The access road near SL7 shall only be used in an emergency.	Compliant	Condition previously closed out
DA 75-4-2005	08	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 DECCW 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.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	09	An application must be made to the DECCW 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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	10	The Applicant must, in the opinion of the DECCW 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.	Compliant	EPL 12003 held by AGL throughout the reporting period
DA 75-4-2005	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.	Compliant	No action required for this condition during the reporting period
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	18	Noise from the operation of the development shall not exceed the sound pressure level (noise) limits presented in the Table below: 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 LA1 (1 minute) noise level in the table., - Where it can be demonstrated that direct measurement of noise from the premises is impractical, the DECCW 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., speed up to 3m/s at 10 metres above ground level, and temperature inversion conditions.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	18A	Noise from the drilling and construction of SL08 and SL09 shall not exceed the sound pressure level (noise) limits in the table below:	Compliant	Condition previously closed out
DA 75-4-2005	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 DECCW 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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	21	The Applicant shall ensure that all construction work (except for the drilling (including well casing and grouting) of SIS wells), shall only be conducted between 7.00am and 6.00pm Monday to Friday and between 8.00am and 1.00pm Saturdays, 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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	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 DECCW and affected residents as soon as possible, or within a reasonable period in the case of an emergency.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	23	The Applicant shall carry out the development in a manner that will minimise emissions of dust from the site., , 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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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., , Note: Section 120 of the Protection of the Environment Operations Act 1997 applies to the disposal of wastewater.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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 Landcom's Managing Urban Stormwater: Soils and Construction.	Compliant	Condition previously closed out
DA 75-4-2005	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., , 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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	27	The Applicant must ensure that any hazardous, industrial or Group A waste is assessed and classified in accordance with the DECCW's Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes".	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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., , 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-282-6-2003-1, dated 16 June 2004. The updated version shall incorporate and adequately address the relevant aspects of the additional wells and related plant.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	33	Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance., , The Applicant shall obtain the prior approval of the Director-General for the redrilling and/or additional fracing of a gas well.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	36	The Applicant shall ensure that the route of the gas gathering system follows previously or currently disturbed areas wherever possible.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	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.	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	39	The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the development.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	40	The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	42A	The Applicant shall ensure that, during the drilling and construction of SL08 and SL09, 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 Ecosarch 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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	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., , 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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	47	The Applicant must ensure that should any Aboriginal objects be uncovered, excavation or disturbance of the area is to stop immediately and the DECCW is to be informed in accordance with section 91 of the National Parks and Wildlife Act 1974.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition previously closed out
DA 75-4-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 75-4-2005	53	The Applicant shall provide an annual return to the DECCW 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.	Compliant	Annual Return Report completed and submitted to comply with this condition

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	54	<p>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.</p>	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 75-4-2005	55	<p>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.</p>	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 75-4-2005	56	<p>The Applicant shall also submit a copy of the Annual Environmental Performance Report to the DECCW, Department of Primary Industries and Campbelltown City Council. The Applicant shall make a copy of the Report publicly available.</p>	Compliant	Report completed and submitted to comply with this condition
DA 75-4-2005	57	<p>On completion of all construction works, the Applicant shall commission and pay the full costs of an Independent Environmental Audit of the drilling and fracturing 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.</p>	Compliant	Condition previously closed out
DA 75-4-2005	58	<p>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. , 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 Independent Environmental Audit required under Schedule 5 Condition 10 of development consent DA-282-6-2003-i, dated 16 June 2004.</p>	Compliant	Condition not triggered during the reporting period
DA 75-4-2005	59	<p>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 DECCW or the Department who asks to see them.</p>	Compliant	Complaints register maintained for the Project
DA 75-4-2005	60	<p>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>	Compliant	Condition satisfied through provision of information on the CGP website

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 75-4-2005	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.	Compliant	Condition satisfied through the functioning Community Consultative Committee
DA 9-1-2005	00	This approval (DA 9-1-2005), which was granted on 26 May 2005, is for a period of twenty one (21) years from the granting of the production lease. Production lease here refers to PPL4 which was granted on 6 October 2004. Hence DA 9-1-2005 expires 21 years from 6 October 2004 which is 6 October 2025.	Compliant	No action required for this condition during the reporting period
DA 9-1-2005	01	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.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	02	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; (g) letter from AGL Energy Limited to the Department dated 28th May 2010, modifying the application to revise condition 26 of schedule 2; and (h) 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.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	03	This approval is for a period of twenty one (21) years from the granting of the production lease.	Compliant	No action required for this condition during the reporting period
DA 9-1-2005	04	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.	Compliant	Condition previously closed out
DA 9-1-2005	05	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 9-1-2005	06	Nothing in this consent permits the drilling and operation of any additional wells (beyond the approved 8 wells for gas production).	Compliant	No action required for this condition during the reporting period
DA 9-1-2005	07	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.	Compliant	Condition previously closed out
DA 9-1-2005	08	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.	Compliant	Condition previously closed out
DA 9-1-2005	09	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	No action required for this condition during the reporting period
DA 9-1-2005	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)	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	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)	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	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. 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.	Compliant	Condition not triggered during the reporting period

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DA 9-1-2005	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 wastewater.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	16	The Applicant shall implement all practicable measures to minimise soil erosion and the discharge of sediments and water pollutants from the site.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	19	The Applicant shall undertake the development in a way that minimises the noise generated by the development.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Plan completed and submitted to comply with this condition
DA 9-1-2005	21	The Applicant shall ensure that the route of the gas gathering system follows previously or currently disturbed areas wherever possible.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	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.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	23	The Applicant shall not remove mature trees as part of this development unless otherwise agreed by the Director-General.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	24	The Applicant shall implement best practice flora and fauna management.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	25	The Applicant shall take all practicable measures to minimise potential flora and fauna impacts of the proposed development.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	26	The Applicant shall provide landscaping around the well heads using appropriate species in consultation with the land owner.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 9-1-2005	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 PlanA 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 SystemA 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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	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.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	36	The Applicant shall obtain the prior approval of the Director-General for the drilling, redrilling and/or additional fracing of a gas well.Note: For the purposes of this consent the redrilling and/or additional fracing of a well does not constitute wellhead maintenance.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	37	The Applicant shall prepare a Drilling and Fracing Management Plan in consultation with the Department of Primary Industries for the drilling of a well, or 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 drilling, 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 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 refracing work.	Compliant	Condition not triggered during the reporting period
DA 9-1-2005	38	The Applicant shall give written notification of the proposed drilling, redrilling and/or refracing work to potentially affected residences and other noise sensitive receivers at least fourteen days prior to work commencing.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition previously closed out
DA 9-1-2005	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.	Compliant	Condition satisfied through implementation of the EMP
DA 9-1-2005	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
DA 9-1-2005	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 fracturing 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). , 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.	Compliant	Condition previously closed out
DA 9-1-2005	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-282-6-2003-i, dated 16 June 2004.	Compliant	Condition not triggered during the reporting period
PA 06_0137	00	This approval lapses after 21 years from the date of approval or on the expiry of PPL4, whichever occurs sooner. PA 06_0137 was approved on 9 December 2006 and expires on 9 December 2027. PP4 expires on 5 October 2025. Hence, PA 06_0291 expires on the expiry of PPL4, which is 5 October 2025.	Compliant	Condition not triggered during the reporting period
PA 06_0137	02.01	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	02.02	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0137	02.03	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.	Compliant	No action required for this condition during the reporting period
PA 06_0137	02.04	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0137	02.05	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.	Compliant	No action required for this condition during the reporting period
PA 06_0137	02.06	Nothing in this approval permits the drilling and operation of any additional gas wells (beyond the approved 10 wells for gas production).	Compliant	No action required for this condition during the reporting period
PA 06_0137	02.07	The Proponent shall surrender the approval for any well that has not been drilled within 5 years of the date of this approval.	Compliant	Condition previously closed out
PA 06_0137	02.08	Within 3 months of the commissioning of the wells, the Proponent shall provide Council with: (a) the Geographical Positioning System (GPS) coordinates 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.	Compliant	Condition previously closed out
PA 06_0137	02.09	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.01	The Proponent shall comply with the construction and maintenance hours in Table 1: 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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.02	The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goal specified in Table 2.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.03	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) a detailed description of the measures that would be implemented to achieve the construction noise goal 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 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.	Compliant	Condition previously closed out
PA 06_0137	03.04	The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3. 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 LA1 (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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.05	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.06	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.07	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0137	03.08	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.09	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.10	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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
PA 06_0137	03.11	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: (a) cover all operations on the wells and gas gathering system; (b) clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures; (c) 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, (d) 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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
PA 06_0137	03.12	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: (a) dates of commencement of construction and commissioning; (b) actions taken (or proposed to be taken) to implement conditions 10 and 11; and, (c) 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.	Compliant	Condition previously closed out
PA 06_0137	03.13	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) 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; (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 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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.14	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.	Compliant	Condition not triggered during the reporting period

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0137	03.15	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) 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.	Compliant	Condition previously closed out
PA 06_0137	03.16	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	03.17	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	04.01	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0137	04.02	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.	Compliant	Condition not triggered during the reporting period
PA 06_0137	04.03	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0137	04.04	The Proponent shall submit a copy of the AEPR to the DPI, DEC and Council.	Compliant	Annual Return Report completed and submitted to comply with this condition

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0137	04.05	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.	Compliant	Condition not triggered during the reporting period
PA 06_0137	04.06	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.	Compliant	No action required for this condition during the reporting period
PA 06_0137	04.07	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.	Compliant	No action required for this condition during the reporting period
PA 06_0137	04.08	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.	Compliant	Condition satisfied through the functioning Community Consultative Committee
PA 06_0137	04.09	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).	Compliant	Condition satisfied through provision of information on the CGP website
PA 06_0138	00	According to Schedule 2 Condition 5 of this Approval, the Approval shall lapse 21 years after the date of this approval or on the expiry date of PPL1 or PPL4, whichever is the sooner. This Approval lapses on 2027. PPL1 expires on 1 September 2023. PPL4 expires on 5 October 2025. The earlier expiry of the three licences is PPL 1 on 1 September 2023. Hence, this Approval expires on that date.	Compliant	No action required for this condition during the reporting period
PA 06_0138	02.02	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 EM32 from AGL Gas Production (Camden) Pty Limited to the Department, dated 31 May 2007; and (h) conditions of this approval.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	2.01	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	2.03	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.	Compliant	No action required for this condition during the reporting period
PA 06_0138	2.04	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0138	2.05	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.	Compliant	No action required for this condition during the reporting period
PA 06_0138	2.06	Nothing in this approval permits the drilling and operation of any additional gas wells (beyond the approved 15 wells for gas production).	Compliant	Condition not triggered during the reporting period
PA 06_0138	2.07	The Proponent shall surrender the approval for any well that has not been drilled within 5 years of the date of this approval.	Compliant	Condition previously closed out
PA 06_0138	2.08	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.	Compliant	Condition previously closed out
PA 06_0138	2.09	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0138	3.01	<p>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:</p> <p>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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.02	<p>The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goals specified in Table 2.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.03	<p>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 re-drilling 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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.04	<p>The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3.</p> <p>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 LA1 (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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.05	<p>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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.06	<p>The Proponent shall prepare and implement a Noise Monitoring Program for the construction and operation of the project. The programs shall be submitted to the Director-General prior to construction commencing. This is a general condition to be complied with as and when required. Hence, no specific completion date is required. However, it is presumed that this conditions had already been completed.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.07	<p>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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.08	<p>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-282-6-2003-1, dated 16 June 2004.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.09	<p>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.</p>	Compliant	Plan completed and submitted to comply with this condition
PA 06_0138	3.10	<p>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 EPA.</p>	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0138	3.11	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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
PA 06_0138	3.12	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: (a) cover all operations on the wells and gas gathering system; (b) clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures; (c) 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 (d) 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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
PA 06_0138	3.13	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.	Compliant	Condition previously closed out
PA 06_0138	3.14	The Proponent shall only undertake drilling and fracing 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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	3.15	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.16	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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	3.17	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.	Compliant	Condition previously closed out
PA 06_0138	3.18	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	3.19	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.	Compliant	Condition satisfied through implementation of the EMP

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0138	4.01	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0138	4.02	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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	4.03	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0138	4.04	The Proponent shall submit a copy of the AEPR to the DPI, DEC and Council.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0138	4.05	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 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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	4.06	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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	4.07	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.	Compliant	Condition not triggered during the reporting period
PA 06_0138	4.08	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.	Compliant	Condition satisfied through the functioning Community Consultative Committee

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0138	4.09	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).	Compliant	Condition satisfied through provision of information on the CGP website
PA 06_0291	00	This approval shall lapse 21 years after the date of this approval or on the expiry date of Petroleum Production Lease No.4 or Petroleum Production Lease No.5, whichever is the sooner. PPL4 expires on 5 October 2025, which is the sooner date. Hence, this Approval will lapse on 5 October 2025.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.01	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	02.02	The Proponent shall carry out the project generally in accordance with the: (a) Project Application 06_0291; (b) EA titled "Environmental Assessment – Expansion of Stage 2 of the Camden Gas Project Stage 2 Concept Area Spring Farm Project Area Menangle Park Project Area", Volume 1 and 2 prepared by ENSR Australia Pty Ltd, and dated September 2007; (c) Submissions Report prepared by ENSR Australia Pty Ltd, and dated December 2007; (d) Statement of Commitments; and (e) EA titled "Spring Farm and Menangle Park Gas Gathering System Modifications – Gas gathering line MP06 to MP11 and MP11 to MP23 (via MP19)" prepared by AGL Gas Production (Camden) Pty Ltd, and dated 7 December 2010; (f) EA titled "Spring Farm and Menangle Park Gas Gathering System Modifications – Gas gathering line MP03 to MP05" prepared by AGL Gas Production (Camden) Pty Ltd, and dated 24 November 2010; and (g) EA titled "Spring Farm and Menangle Park Gas Gathering System Modifications – Gas gathering line MP22 to SL02" prepared by AGL Gas Production (Camden) Pty Ltd, and dated 7 December 2010; (h) Modification Application MP 06_0291 MOD 3 and supporting letter/report headed "Proposed Modification to Project Approval 06_0291", dated 17 January 2011; and (i) conditions of this approval.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	02.03	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.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.03A	Within 3 months of any modification to this Approval, the Proponent shall review and if necessary, revise all management and monitoring strategies, plans and programs required under this approval which are relevant to the modification to the satisfaction of the Director-General.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.04	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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0291	02.05	This approval shall lapse 21 years after the date of this approval or on the expiry date of Petroleum Production Lease No.4 or Petroleum Production Lease No.5, whichever is the sooner.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.06	Nothing in this approval permits the drilling and operation of more than 4 well surface locations in Spring Farm and more than 12 well surface locations in Menangle Park.	Compliant	Condition not triggered during the reporting period
PA 06_0291	02.07	This approval permits the drilling of well surface locations SF04A, SF10, SF17 and SF20 in Spring Farm. The Proponent shall not drill well surface location SF04.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.08	This approval permits the drilling of well surface locations MP02, MP03, MP04, MP05, MP06, MP11, MP19, MP21, MP22, MP23, MP24 and MP33 in Menangle Park.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.09	The Proponent shall not drill more than 6 co-located wells within each well surface location.	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.10	The Proponent shall surrender the approval for any well surface location where work has not been commenced within 5 years of the date of this approval.	Compliant	Condition previously closed out
PA 06_0291	02.11	The Proponent shall not construct well surface locations MP04, MP19 and MP21 without the written approval of the Director-General. In seeking the Director-General's approval, the Proponent shall: (a) in relation to MP04, submit evidence that the Proponent has consulted with Transgrid and/or Integral Energy on the design and location of MP04 and considered the safety issues of the location of gas well(s) adjacent to the Macarthur Substation and its earthing system; (b) in relation to MP19 and MP21, submit evidence that the Proponent has consulted with Landcom and Campbelltown City Council on the design and location of MP19 and MP21 in relation to the proposed Spring Farm arterial road and the relevant Menangle Park draft urban layout; and (c) provide a detailed site layout plan(s) of the well surface location (condition 1 of Schedule 3); to the satisfaction of the Director -General. Note: If the proposed well surface location is outside the environmental envelope of the well surface location that was assessed in the EA, then the Proponent will require a separate approval for the proposed well surface location under the EP&A Act.	Compliant	Condition previously closed out
PA 06_0291	02.12	The Proponent 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.	Compliant	Condition previously closed out

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0291	02.13	<p>Within 3 months of the commissioning of the wells, the Proponent shall provide Camden Council and Campbelltown City Council with:</p> <p>(a) the Geographical Positioning System (GPS) co-ordinates and digital survey data for the well surface locations and gas gathering system, in a format suitable to the councils; and</p> <p>(b) the wellhead configuration of each well.</p> <p>The Proponent shall provide a copy of this information to the landowner on request.</p>	Compliant	Condition previously closed out
PA 06_0291	02.14	<p>The Proponent shall:</p> <p>(a) repair, or pay all reasonable costs associated with repairing public infrastructure that is damaged by the project; and</p> <p>(b) relocate, or pay all reasonable costs associated with relocating public infrastructure that needs to be relocated as a result of the project.</p> <p>Where agreement is not reached with the owner on the cost of repairs, the Director-General shall determine the amount considered reasonable.</p>	Compliant	No action required for this condition during the reporting period
PA 06_0291	02.15	<p>The Proponent shall ensure that all plant and equipment used at the site is:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient condition.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.01	<p>Prior to construction commencing at an individual well surface location, the Proponent shall submit a Site Layout Plan of the well surface location to the satisfaction of the Director-General. The Site Layout Plan must be prepared in consultation with the landowner and include details of:</p> <p>(a) the site construction layout and construction footprint;</p> <p>(b) the wellheads and production compound layout;</p> <p>(c) the route of the gas gathering lines and access roads; and</p> <p>(d) initial rehabilitation works following construction.</p>	Compliant	Condition previously closed out
PA 06_0291	03.02	<p>Except for the drilling (including well casing and grouting) of wells, the Proponent shall comply with the construction and maintenance hours in Table 1:</p> <p>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.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.03	<p>The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goals specified in Table 2.</p> <p>Note: See notes to condition 5</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.04	<p>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:</p> <p>(a) a detailed description of the measures that would be implemented to achieve the construction noise goals in condition 3;</p> <p>(b) a community notification protocol for the proposed construction activities (including any re-drilling or re-fracking of wells);</p> <p>(c) a description of the measures that would be implemented where the construction noise goals in condition 3 are unlikely to be achieved or are not being achieved; and</p> <p>(d) details of who would be responsible for monitoring, reviewing and implementing the plan.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.05	<p>The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3.</p> <p>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. · 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. · As the area develops the background noise may change. At that time it may be appropriate to review the intrusive noise criteria for the proposal.</p>	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.06	<p>The Proponent shall, to the satisfaction of the Director-General:</p> <p>(a) implement all reasonable and feasible best practice noise mitigation measures;</p> <p>(b) investigate ways to reduce the noise generated by the project; and</p> <p>(c) report on these investigations and the implementation and effectiveness of these measures in the AEMR.</p>	Compliant	Condition satisfied through preparation and submission of this AEPR

Development Consent/ Project Approval	Condition Number	Condition Description	Compliance Status	Summary of actions completed in reporting period
PA 06_0291	03.07	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.	Non-compliant (low risk)	Condition recorded as non-compliant in the 2015-18 Independent Environmental Audit. Wilkinson Murray have been engaged during the reporting period to conduct attended noise monitoring during well workovers in the Spring Farm and Menangle Park fields.
PA 06_0291	03.08	The Proponent shall prepare and implement all practicable measures to minimise dust emissions generated by the construction and operation of the project to the satisfaction of the Director-General.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.09	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.09A	The Proponent shall ensure that, in respect of any underboring of the Upper Canal, the underbore works shall be undertaken and monitored to the satisfaction of the Sydney Catchment Authority, and: (a) must proceed at a reduced force or load if vibration levels exceed 2.4 millimetres per second (mm/s); and (b) must halt if vibration levels exceed 3 mm/s, except with the prior agreement of the Sydney Catchment Authority.	Compliant	Condition previously closed out
PA 06_0291	03.09B	The Proponent shall ensure that design and construction of any watercourse crossing must be undertaken by a suitably qualified person in accordance with the Guidelines for Watercourse Crossings (NOW, 2010).	Compliant	Condition previously closed out
PA 06_0291	03.10	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) open trenching works within 20 metres of watercourses are only undertaken during dry weather conditions; (e) construction activities do not impede lateral water flows; (f) no crown or camber remains along any gas gathering system line, following rehabilitation; (g) signs are erected at intervals along all gas gathering system lines indicating the presence of a buried gas pipeline; (h) impacts to riparian vegetation and endangered ecological communities are minimised; and (i) impacts to the Cumberland Land Snail (<i>Meridolum corneovirens</i>) are negligible	Compliant	Condition previously closed out
PA 06_0291	03.11	Should the future urban development of the Spring Farm and Menangle Park urban release areas identify the need to relocate any gas gathering lines the subject of this approval, that infrastructure shall be relocated by, and at the cost of the Proponent to the satisfaction of the Director-General, following consultation with the relevant council and/or landowner. The requirement to relocate at the cost of the Proponent shall be limited to one occasion.	Compliant	No action required for this condition during the reporting period
PA 06_0291	03.12	The Proponent shall prepare and implement a Flood Management Plan for well surface locations 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 the wells and shall include measures to minimise and mitigate flooding impacts associated with the project.	Compliant	Plan completed and submitted to comply with this condition
PA 06_0291	03.13	The Proponent shall ensure that any waste or wastewater (including drill pits and drill/formation waters) is assessed and classified in accordance with the OEH'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 OEH.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.14	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.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP

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PA 06_0291	03.15	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: (a) cover all operations on the wells and gas gathering system; (b) clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures; (c) 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 (d) 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) or the Quantitative Risk Assessment carried out by Planager Pty Ltd (dated 19 September 2007) and that all safety related systems required by the guidelines or QRA have been included.	Compliant	Condition satisfied through implementation of the Health and Safety Management Plan and ERP
PA 06_0291	03.16	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 14 and 15; and (c) a signed statement that: • the Emergency Plan required under condition 14 is effectively in place and that at least one emergency exercise has been conducted; • the SMS required under condition 15 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 QRA, 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.	Compliant	Condition previously closed out
PA 06_0291	03.17	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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.18	The Proponent shall prepare and implement a Landscape and Rehabilitation Management Plan for each well surface location, to the satisfaction of the Director-General. This Plan must: (a) be prepared in consultation with the landowner by suitably qualified experts; (b) be submitted to the Director-General for approval prior to commissioning; (c) describe in detail the short, medium and long term measures that would be implemented to: rehabilitate the site; implement planting of native vegetation; manage the remnant vegetation and habitat on the site; and landscape the site to mitigate visual impacts of the project; (d) include a description of what measures would be implemented to rehabilitate the site; and (e) provide details of who is responsible for monitoring, reviewing and implementing the plan.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.19	The Proponent shall consult with the landowner in the selection of fencing and other materials to be used for landscaping, to the satisfaction of the Director-General.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.20	The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for each well surface location, in consultation with the OEH and relevant Aboriginal communities, and to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to construction commencing at each well surface location (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 archaeological relics; (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.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.21	The Proponent shall ensure that the location of wells or other infrastructure avoid or minimise any impacts on the heritage significance of any State Heritage listed items in the project area.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	03.22	The Proponent shall prepare and implement a Construction Traffic Management Plan for the project, in consultation with the RTA, Camden Council and Campbelltown City Council, and to the satisfaction of the Director-General. The plan shall be submitted to the Director-General prior to construction commencing (or as otherwise agreed by the Director-General) and shall include: (a) a description of the measures that would be implemented to: maintain access; minimise the potential noise and safety impacts associated with the construction of the gas gathering lines and construction traffic; and keep the community informed of any traffic disruptions that would be caused by the project; (b) traffic control plans where appropriate.	Compliant	Condition previously closed out
PA 06_0291	03.23	Prior to under-boring the South Western (F5) Freeway or Menangle Road, the Proponent shall consult with the RTA to obtain its requirements for construction, and shall ensure that under-boring of the Freeway or Menangle Road is conducted to the satisfaction of the RTA.	Compliant	Condition previously closed out
PA 06_0291	03.23A	Prior to under-boring the Main Southern Railway Line, the Proponent shall submit detailed design plans to the ARTC for review, and obtain its requirements for construction. The Proponent shall ensure that under-boring of the Railway Line is conducted to the satisfaction of ARTC.	Compliant	Condition previously closed out

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PA 06_0291	03.23B	The Proponent shall ensure that the design, location and construction of any road underboring in the vicinity of the Jim Affleck Bridge and underboring of the proposed link road between Menangle Road and the F5 must be undertaken in consultation with, and to the satisfaction of, the RTA.	Compliant	Condition previously closed out
PA 06_0291	03.23C	The Proponent shall ensure that the design, location and construction of any underboring within the Mount Annan Botanic Gardens must be undertaken in consultation with, and to the satisfaction of, the Botanic Gardens Trust, and must take into consideration the "Guidelines for developments adjoining land and water managed by the DECCW" (DECCW, 2010).	Compliant	Condition previously closed out
PA 06_0291	03.24	The Proponent shall give written notification of planned maintenance activities (including well workover) to landowners, potentially affected residences and identified noise sensitive receivers at least 14 days prior to work commencing. The notification is to include: (a) information explaining the maintenance procedures to be undertaken; (b) an estimate of the length of works at each site; (c) contact details for a representative of the Proponent; and (d) information regarding a 24-hour telephone contact number.	Non-compliant (low risk)	Condition recorded as non-compliant in the 2015-18 Independent Environmental Audit. Condition satisfied during the reporting period through provision of information on the CGP website and mail notifications to potentially affected residence.
PA 06_0291	03.25	The Proponent shall obtain the approval of the Director-General prior to undertaking work involving the redrilling and/or re-fracking of wells approved under this approval. Note: For the purposes of this approval the redrilling and/or re-fracking of a well does not constitute wellhead (workover) maintenance.	Compliant	Condition not triggered during the reporting period
PA 06_0291	03.26	The Proponent may satisfy conditions 4, 7, 9, 12, 14, 15, 18, 20 and 22 in Schedule 3 of this approval by demonstrating to the satisfaction of the Director-General that existing equivalent documentation has been appropriately updated to reflect the expansion of Stage 2 of the Camden Gas Project.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	04.01	The Proponent shall prepare and implement an Environmental Management Plan (EMP) for the construction and operation of the project to the satisfaction of the Director-General. The EMP shall be submitted to the Director-General prior to construction 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 construction and operation of the project; (c) describe the environmental policies and principles to be applied to 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 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 the environmental management of the project.	Compliant	Condition satisfied through implementation of the EMP
PA 06_0291	04.02	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.	Compliant	Condition not triggered during the reporting period
PA 06_0291	04.03	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 Management Report (AEMR) for the project to the satisfaction of the Director-General. The AEMR 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 CCC 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.	Compliant	Condition satisfied through preparation and submission of this AEPR
PA 06_0291	04.04	The Proponent shall submit a copy of the AEMR to the OER, OEH, Camden Council and Campbelltown City Council.	Compliant	Condition satisfied through preparation and submission of this AEPR

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PA 06_0291	04.05	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 EMP; and(g) recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.	Compliant	Condition not triggered during the reporting period
PA 06_0291	04.06	Within 3 months of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General, OER and OEH, with a response to any of the recommendations contained in the audit report.	Compliant	Condition not triggered during the reporting period
PA 06_0291	04.07	Following each Independent Environmental Audit, the Proponent shall review and if necessary revise the EMP (and any documents contained in the plan), to the satisfaction of the Director-General. The revised EMP shall be submitted to the Director-General within 6 months of completing the audit.	Compliant	Condition not triggered during the reporting period
PA 06_0291	04.08	The Proponent shall ensure that the construction and operation of the project is subject to the consideration of the Camden Gas Project's CCC, as established under Schedule 5 condition 17 of development consent DA No. 282-6-2003-1, dated 16 June 2004.	Compliant	Condition satisfied through the functioning Community Consultative Committee
PA 06_0291	04.09	Within 1 month of the approval of any plan/strategy/program required under this approval (or any subsequent revision of these plans/strategies/programs), or the completion of the audits or AEMR required under this approval, the Proponent shall: (a) provide a copy of the relevant document(s) to the relevant agencies and the CCC; and (b) ensure that a copy of the relevant document(s) is made publicly available on its website.	Compliant	Condition satisfied through provision of information on the CGP website
PA 06_0291	04.10	During the project, the Proponent shall: (a) make a summary of all environmental monitoring results required under this approval publicly available on the website; and (b) update these results on a regular basis (at least every 6 months), or as required.	Compliant	Condition satisfied through provision of information on the CGP website
PA 06_0291	04.11	The Proponent may satisfy conditions 1, 3 and 5 in Schedule 4 of this approval by demonstrating to the satisfaction of the Director-General that existing equivalent documentation has been appropriately updated to reflect the expansion of Stage 2 of the Camden Gas Project.	Compliant	Report completed and submitted to comply with this condition