

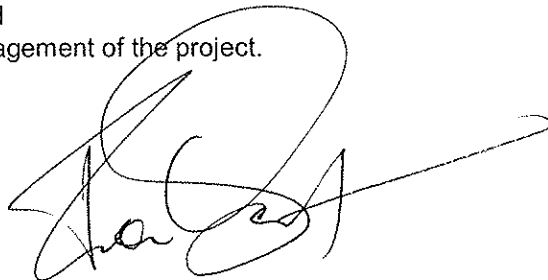
# Project Approval

## Section 75J of the *Environmental Planning & Assessment Act 1979*

I, the Minister for Planning, under Section 75J of the *Environmental Planning and Assessment Act 1979*, approve the project referred to in Schedule 1, subject to the conditions set out in Schedules 2 to 5.

The reason for these conditions is to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the project.



Frank Sartor MP  
Minister for Planning

Sydney

4<sup>th</sup> 12<sup>th</sup> Sept

2008

File No. S02/02299

### SCHEDULE 1

<b>Project Application:</b>	06_0291
<b>Proponent:</b>	AGL Gas Production (Camden) Pty Ltd
<b>Approval Authority:</b>	Minister for Planning
<b>Land:</b>	See Appendix 1
<b>Project:</b>	Spring Farm Project Area and Menangle Park Project Area, as shown in Appendix 2

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## DEFINITIONS

AEMR	Annual Environmental Management Report
CCC	Community Consultative Committee
Day	Day is defined as the period from 7.00am to 6.00pm on Monday to Saturday, and 8.00am to 6.00pm on Sundays and public holidays
DECC	Department of Environment and Climate Change
Department	Department of Planning
Director-General	Director-General of the Department of Planning, or delegate
DPI	Department of Primary Industries
EA	Environmental Assessment
EMP	Environmental Management Plan
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
Evening	Evening is defined as the period from 6.00pm to 10.00pm
Fracture Stimulation	The process by which coal seams are hydraulically fractured (fraced) by pumping a mixture of sand and water under high pressure into the seam until the coal fractures, in order to establish porous pathways to allow gas to flow back to the well from a larger drainage area
Land	Land means the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Night	Night is defined as the period from 10.00pm to 7.00am on Monday to Saturday, and 10.00pm to 8.00am on Sundays and Public Holidays
Proponent	AGL Gas Production (Camden) Pty Ltd
QRA	Quantitative Risk Assessment in Appendix D of Volume 2 of the EA
RTA	Roads and Traffic Authority
Site	Land to which the Project Approval applies (see Appendix 1)
SIS well	Surface to In-seam well
Well	A hole made by drilling in connection with exploration for petroleum or operations for the recovery of petroleum
Well surface location	An area that may incorporate up to 6 co-located wells at one well site or compound

## SCHEDULE 2 ADMINISTRATIVE

### Obligation to Minimise Harm to the Environment

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

### Terms of Approval

2. 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) conditions of this approval.
3. If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency.
4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
  - (a) any reports, plans, programs or correspondence that are submitted in accordance with this approval; and
  - (b) the implementation of any actions or measures contained in these reports, plans, programs or correspondence.

### Limits on Approval

5. This approval shall lapse 21 years after the date of this approval or on the expiry date of Petroleum Production Lease No. 4 or Petroleum Production Lease No. 5, whichever is the sooner.
6. 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.
7. 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.
8. 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.
9. The Proponent shall not drill more than 6 co-located wells within each well surface location.
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.
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.*

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.

#### **Notification of Council**

13. Within 3 months of the commissioning of the wells, the Proponent shall provide Camden Council and Campbelltown City Council with:
  - (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
  - (b) the wellhead configuration of each well.

The Proponent shall provide a copy of this information to the landowner on request.

#### **Protection of Public Infrastructure**

14. The Proponent shall:
  - (a) repair, or pay all reasonable costs associated with repairing public infrastructure that is damaged by the project; and
  - (b) relocate, or pay all reasonable costs associated with relocating public infrastructure that needs to be relocated as a result of the project.

Where agreement is not reached with the owner on the cost of repairs, the Director-General shall determine the amount considered reasonable.

#### **Operation of Plant and Equipment**

15. 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.

## SCHEDULE 3 ENVIRONMENTAL PERFORMANCE

### IDENTIFICATION OF WELL SURFACE LOCATION

1. 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:
  - (a) the site construction layout and construction footprint;
  - (b) the wellheads and production compound layout;
  - (c) the route of the gas gathering lines and access roads; and
  - (d) initial rehabilitation works following construction

### NOISE

#### Construction and Maintenance Hours

2. Except for the drilling (including well casing and grouting) of wells, the Proponent shall comply with the construction and maintenance hours in Table 1:

Table 1: Construction and Maintenance Hours for the Project

Activity	Day	Time
Construction	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil
Planned maintenance activities (includes well workover)	Monday – Friday	7:00am to 6:00pm
	Saturday	8:00am to 1:00pm
	Sunday and Public Holidays	Nil (unless inaudible at any residential receiver)

**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.*

#### Construction Noise Goals

3. The Proponent shall use its best endeavours to undertake construction activities to comply with the construction noise goals specified in Table 2.

Table 2: Construction Noise Goals dB(A)  $L_{Aeq}(15\text{ min})$

Location (nearest residential dwelling)	Day	Evening	Night	Saturday 1pm-6pm Sunday 7am-6pm
MP02, MP03, MP04	49	47	41	47
MP05, MP06	40	40	40	40
MP11, MP24, MP33	42	42	40	42
MP19	R3	40	40	40
	R25	49	47	47
MP21, MP22, MP23	49	47	41	47
SF04A	43	42	37	42
SF10, SF17, SF20	43	41	36	43

Note: See notes to condition 5

## Construction Noise Management Plan

4. 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 detailed description of the measures that would be implemented to achieve the construction noise goals in condition 3;
  - a community notification protocol for the proposed construction activities (including any redrilling or re-fracking of wells);
  - 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
  - details of who would be responsible for monitoring, reviewing and implementing the plan.

## Operational Noise Criteria

5. The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 3.

Table 3: Noise Impact Assessment Criteria dB(A) $L_{Aeq}$

Location (nearest residential dwelling)	Day $L_{Aeq}(15\text{ minute})$	Evening $L_{Aeq}(15\text{ minute})$	Night $L_{Aeq}(15\text{ minute})$
SF10	43	42	37
SF04A, SF17, SF20	43	41	36
MP05, MP06, MP11	40	40	40
MP19, MP21, MP24, MP33	42	42	40
MP02, MP03, MP04, MP22, MP23	49	45	40

### 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.

## Continuous Improvement

6. The Proponent shall, to the satisfaction of the Director-General:
- implement all reasonable and feasible best practice noise mitigation measures;
  - investigate ways to reduce the noise generated by the project; and
  - report on these investigations and the implementation and effectiveness of these measures in the AEMR.

## Noise Monitoring Program

7. 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.

## AIR QUALITY

8. 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.

## WATER

### Soil and Water Management

9. 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, 4<sup>th</sup> 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.

### Gas Gathering System

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; and
  - (g) signs are erected at intervals along all gas gathering system lines indicating the presence of a buried gas pipeline.
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.

## FLOOD MANAGEMENT

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.

## WASTE MANAGEMENT

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 DECC's *Environmental Guidelines: "Assessment Classification and Management of Liquid and Non-Liquid Wastes"*, and disposed of at a licensed waste disposal facility or as otherwise agreed with the DECC.



## HAZARDS AND RISK

### Safety and Risk Management

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*.
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.

### Compliance Report

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.

## LANDSCAPE AND REHABILITATION

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.
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.

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.

## **ABORIGINAL HERITAGE**

20. The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for each well surface location, in consultation with the DECC 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.

## **HERITAGE**

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 Register listed items in the project area.

## **TRAFFIC AND TRANSPORT**

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.
23. Should the installation of the gas gathering line require an underbore of the South Western (F5) Freeway, the underbore works shall be undertaken to the satisfaction of the RTA and:
- (a) have a minimum depth of 1.2 metres below the lowest point of the road formation, 300mm below the invert of the table drains and 900mm below the natural surface elsewhere in the road reserve;
  - (b) excavation of thrust pits must be conducted outside the F5 reserve; and
  - (c) require no access for construction or maintenance from the F5.

## **ONGOING OPERATIONS**

### **Community Notification**

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.

### **Redrilling and Re-fracing**

25. 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 (workover) maintenance.*

### **Reporting**

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.
-

## **SCHEDULE 4 ENVIRONMENTAL MANAGEMENT AND MONITORING**

### **ENVIRONMENTAL MANAGEMENT PLAN**

1. 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.

### **INCIDENT REPORTING**

2. Within 7 days of detecting an exceedance of the goals/limits/performance criteria in this approval or an incident causing (or threatening to cause) material harm to the environment; the Proponent shall report the exceedance/incident to the Department (and any relevant agency). The report shall:
  - (a) describe the date, time, and nature of the exceedance/incident;
  - (b) identify the cause (or likely cause ) of the exceedance/incident;
  - (c) describe what action has been taken to date; and
  - (d) describe the proposed measures to address the exceedance/incident.

### **ANNUAL REPORTING**

3. Within 12 months of the date of this approval, and annually thereafter during the life of the project, the Proponent shall prepare an Annual Environmental 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,
4. The Proponent shall submit a copy of the AEMR to the DPI, DECC, Camden Council and Campbelltown City Council.

## INDEPENDENT ENVIRONMENTAL AUDIT

5. Within 2 years of the date of this approval, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full costs of an Independent Environmental Audit. The Independent Environmental Audit shall:
  - (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;
  - (b) be consistent with *ISO 19011:2002 - Guidelines for Quality and/or Environmental Management Systems Auditing*, or updated versions of these guidelines/manuals;
  - (c) assess the environmental performance of the project, and its effects on the surrounding environment;
  - (d) include a hazard audit of the project in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines"*;
  - (e) assess whether the project is complying with the relevant standards, performance measures and statutory requirements;
  - (f) review the adequacy of the EMP; and
  - (g) recommend measures or actions to improve the environmental performance of the project, and/or its environmental management and monitoring systems.
6. Within 3 months of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General, DPI and DECC, with a response to any of the recommendations contained in the audit report.
7. 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.

## COMMUNITY CONSULTATIVE COMMITTEE

8. The Proponent shall ensure that the construction and operation of the project is subject to the consideration of the Camden Gas Project's CCC, as established under Schedule 5 condition 17 of development consent DA No. 282-6-2003-I, dated 16 June 2004.

## ACCESS TO INFORMATION

9. 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.
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.

## Reporting

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

**APPENDIX 1  
SCHEDULE OF LAND**

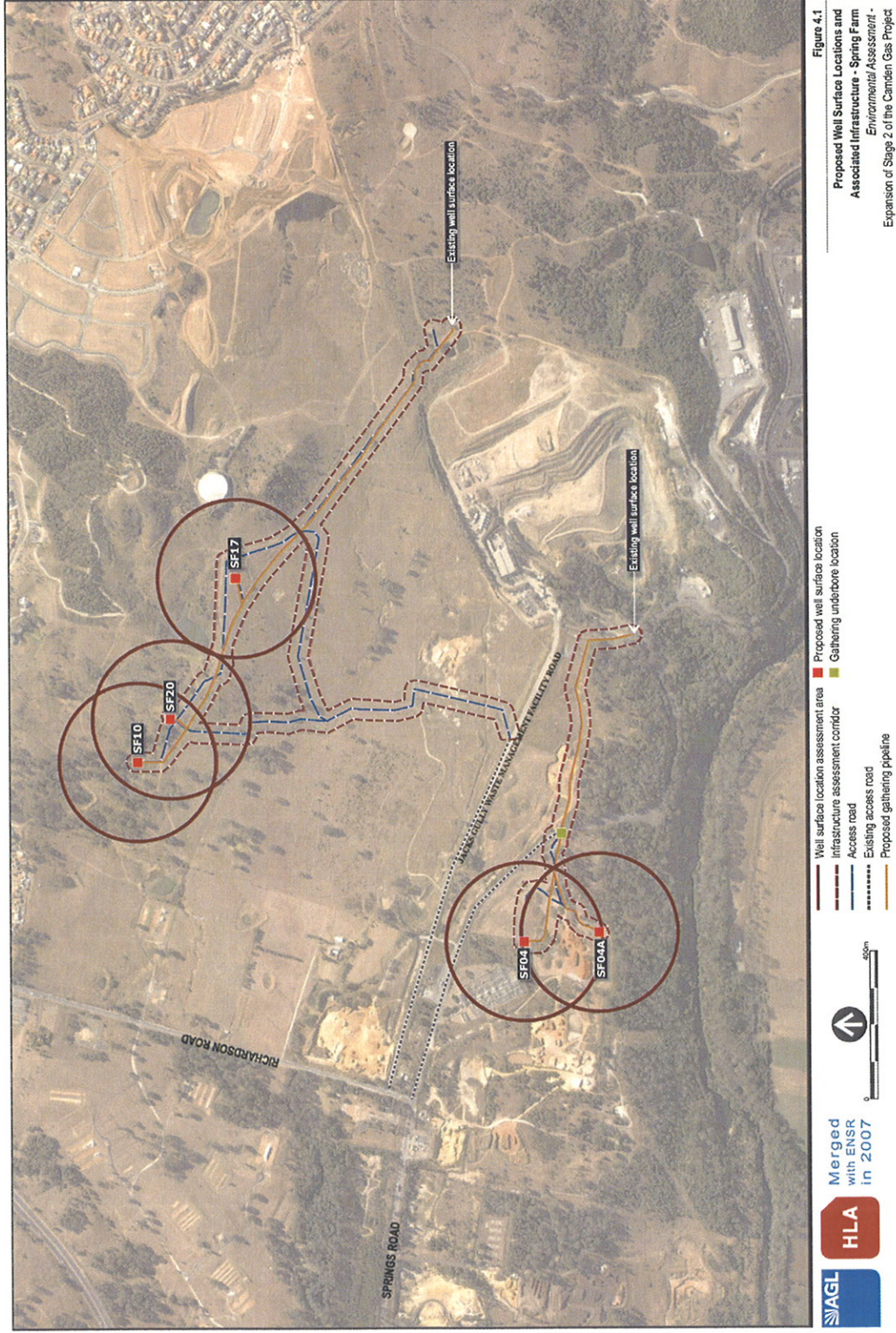
<b>Owner</b>	<b>Lot/DP Number</b>	<b>Well Surface Location and supporting infrastructure details</b>
<b>Spring Farm</b>		
Landcom	13/ DP1081753	SF17, SF04A, access through lot along WSN right of carriageway to Lot 2 in DP1076817, access roads, gas gathering and water lines
	2/ DP 816858	Access via WSN right of carriageway off Richardson Road to Lot 2 in DP1076817
Camden Council	1/ DP 1007608	SF10, SF20, access, gathering and water lines
	4/ DP 1007608	Access route and gas gathering lines
WSN Environmental Solutions	11/ DP1081753	Connection of access route and gas gathering lines from SF10, SF17 and SF20 to existing system near GL02/12
	2/ DP 1076817	Connection of access route and gas gathering lines from SF04A to existing system near GL06
	14/ DP1081753	Access via existing road for connection of proposed SF04A with existing system at GL06
SADA Services Pty Limited	2/ DP 863680	Access via existing road to Lot 54 in DP 864754 for SF04A and for connection into the existing system near GL06
TJ & RF Fordham Pty Limited	54/ DP 864754	Access via existing road for SF04A works and for connection of gathering into the existing system near GL06, including gathering line underbore of the road
<b>Menangle Park</b>		
Landcom	7/ DP 253700	MP02, MP03, access, gathering lines and potential underbore options for gathering
	2/ DP 790254	MP06, access, gathering lines and option for potential underbore of the rail line near underpass to connect MP04 to gathering from MP05
	X/ DP 378264	MP06, access road and gas gathering line to interconnect to existing gas gathering trunk line
	D/ DP 19853	Access road and gas gathering line to interconnect to the existing gas gathering trunk line
	2/ DP 737485	MP11, MP19, access road and gas gathering line options
	8/ DP 249530	MP19, MP22, access road and gathering line options which may include a gathering underbore
	1/ DP 598067	MP21, MP23, access road and gathering lines
	11/ DP 584016	MP21, MP22, MP23, gathering lines and access route which may include a gathering underbore
	2/ DP 554242	Access route option off cnr Taber St & Cummins Rd
	3/ DP 628052	Gathering line and access route from MP04 to rail line underbore
	5/ DP 249530	Access route option off Glenlee Road (East)
	41/ DP 259152	Access route for MP02 and MP03 off Gilchrist Drive
	6/ DP 253700	Access route for MP02 and MP03 off Gilchrist Drive
	8/ DP 253700	Access and gathering for MP03 as well as a potential underbore of the rail line for potential gathering options
University of Western Sydney Minister Administering the EP&A Act	1085/ DP792746	Potential gathering line option (Menangle/ Glenlee Roads) to link MP02 and MP04 which may include an underbore of Upper Canal at junction of Menangle and Glenlee Roads from either Lot 1085 in DP 792746 or Lot 2 in DP 842735 to Glenlee Road
	181/ DP791988	Potential gathering line option (Menangle/ Glenlee Roads) to link MP02 and MP04 which includes a

	2/ DP 842735	potential underbore from Lot 9 in DP 253700 Potential gathering option (Menangle/ Glenlee Roads) which may involve an underbore of Upper Canal at junction of Menangle and Glenlee Roads from either Lot 1085 in DP 792746 or Lot 2 in DP 842735 to Glenlee Road (East)
TransGrid	31/ DP 1100981	MP04, access, gathering lines and potential underbore
Sydney Catchment Authority	26/ DP 249530	Access road off Glenlee Road (East)
	27/ DP 249530	Continuation of access road from Glenlee Road (East)
	1/ DP 616271	Potential access option to MP04 along Upper Canal and potential gathering line option to link MP03 and MP04 which would require underbore of the F5 and possible underbore or crossing of Upper Canal from either to Lot 3 or 5 in DP 249529 to Lot 31 in DP 1100981
	2/ DP 616271	Potential gathering option (Menangle/ Glenlee Roads) which requires underbore of Upper Canal and potentially Menangle Road at the junction of Menangle and Glenlee Roads from either Lot 1085 in DP 792746 or Lot 2 in DP 842735
	2/ DP 1086648	Potential gathering option (Menangle/ Glenlee Roads) which requires underbore of Upper Canal at junction of Menangle and Glenlee Roads
Australian Rail Track Corporation (ARTC)	1/ DP 790254	MP05, access, gathering lines and gathering line underbore of the south rail spur line to Lot 2 in DP 790254
	9/ DP 253700	Access and gathering for MP02 and a potential underbore location for the potential gathering line option (Menangle/ Glenlee Roads) to connect MP02/03 across from Lot 181 in DP 791988 with MP04
	1/ DP 234108	Access for MP02 and MP03
	10/ DP 253700	Access for MP02 and MP03
	Govt. Gazette 5/11/1858 Folio 1823	- Main Southern rail line easement for gathering line option to link MP02 and MP03 with MP04
	Book 70 No. 447	- Main Southern Rail line underpass for access south of the Glenlee rail spur and north of Glenlee House from Glenlee Road (East) and gathering which may include a potential underbore from Lot 3 DP628052 to Lot 2 DP790254
	Book 80 No. 475	
	Book 71 No. 92	- Access through Main Southern Rail line underpass at the Howes Creek crossing
	Book 68 No. 798	
SADA Services Pty Limited	1101/ DP 883495	Access for MP05 and MP06
	38/ DP 1098588	Access for MP05 and MP06
	1/ DP 405624	Access for MP05 and MP06
J Tripodi	1102/ DP 883495	Access for MP05 and MP06
Campbelltown City Council	2/ DP 236059	MP24, access, gathering lines and underbore of Menangle Road
	3/ DP 236059	Gathering line from MP24 to link into existing system and access option off Menangle Rd to MP33
	1/ DP 249393	MP33, gas gathering lines and access route options
	7/ DP 787284	Access to Menangle Road and potential gas gathering lines
	124/ DP1097090	Access to Menangle Road
	125/ DP1097138	Access to Menangle Road
	33/ DP1101983	Access to Menangle Road
	19/ DP 260090	Access to Menangle Road
	22/ DP 260090	Access to Menangle Road

L & E Trevisan	23/ DP 260090	Access to Menangle Road
	1/ DP 708770	Access to Menangle Road
	1/ DP 707225	Access to Menangle Road
	4/ DP 205663	Potential gathering line option (Freeway) to link MP03 and MP04
A & M Begaj	1/ DP 249529	Potential gathering line option (Freeway) to link MP03 and MP04
P & B Durovic	2/ DP 249529	Potential gathering line option (Freeway) to link MP03 and MP04
M Harris	3/ DP 249529	Potential gathering line option (Freeway) to link MP03 and MP04, including potential underbore location
Roads & Traffic Authority (RTA)	Menangle Road (Crown Road) reserve between the rail overpass and the Nepean River Bridge	Gathering line underbore of Menangle Road just west of the rail line, then gathering line in verge of road under the rail overpass for connection to existing gathering system
	4/ DP 249529	Potential gathering line option (Freeway) to link MP03 and MP04 which may require underbore of the F5 from Lot 3 in DP 249529 to Lot 31 in DP 1100981
	5/ DP249529	
	6/ DP249529	
	7/ DP249529	
	4/ DP 210548	Potential gathering line option (Menangle/ Glenlee Roads) to link MP02 and MP04
	17/ DP249530	Potential gathering line option (Menangle/ Glenlee Roads) to link MP02 and MP04 which may involve an underbore or strap on to the Mark Evans Bridge. (F5 freeway at the Mark Evans Bridge)
	19/ DP249530	
	20/ DP249530	
	21/ DP249530	
Torrens Re-Development and Research Pty Limited	22/ DP249530	Potential gathering line option (Menangle/ Glenlee Roads) to link MP02 and MP04 which may include underbore
	3003/802845	



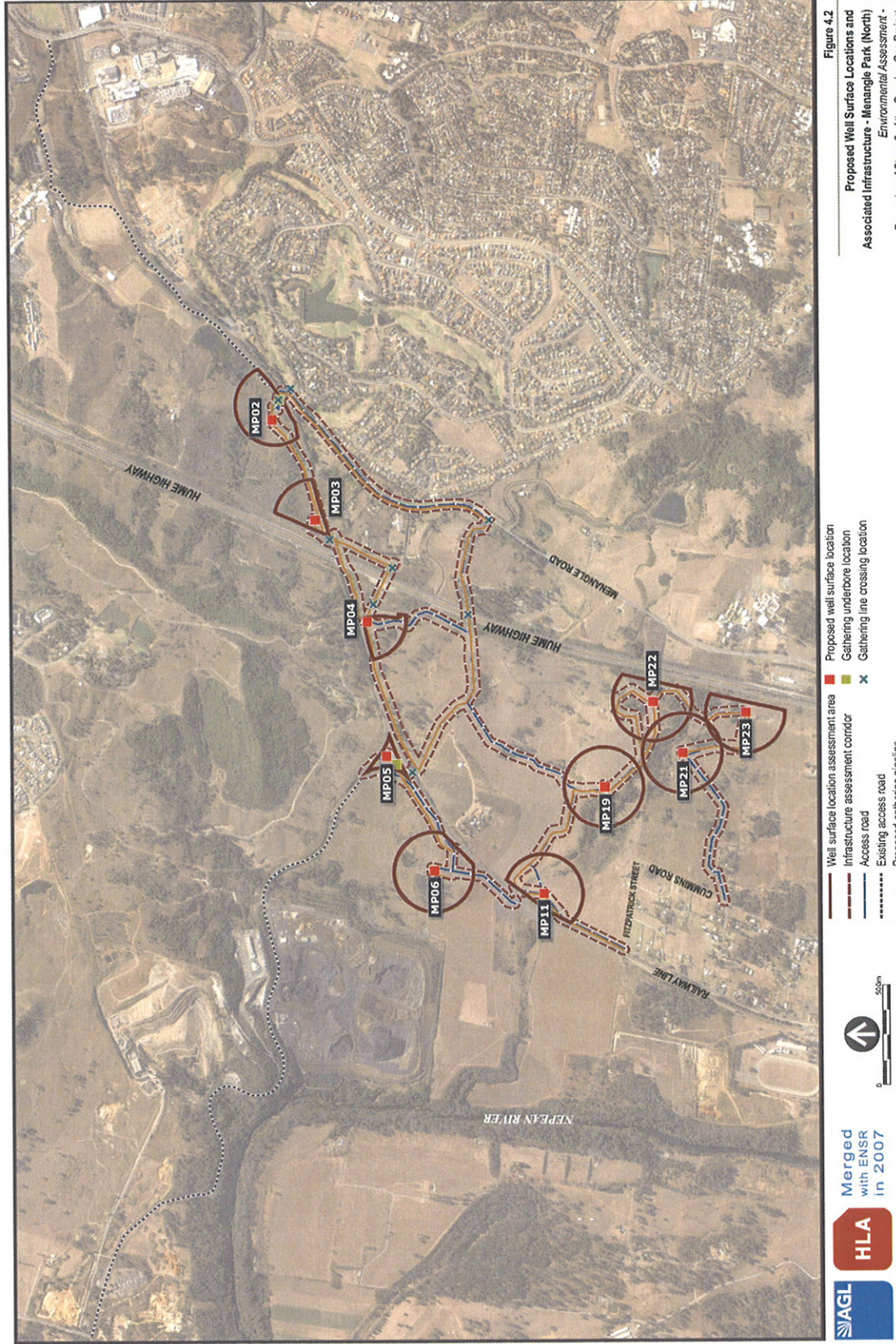
## APPENDIX 2 PROJECT AREA



**Figure 4.1**  
Proposed Well Surface Locations and  
Associated Infrastructure - Spring Farm  
Environmental Assessment -  
Expansion of Stage 2 of the Camden Gas Project

Spring Farm Project Area (Figure 4.1 of the EA)





Menangle Park Project Area (North) (Figure 4.2 of the EA)





Figure 4.3

Proposed Well Surface Locations and  
Associated Infrastructure - Menangle Park (South)  
Environmental Assessment -  
Expansion of Stage 2 of the Camden Gas Project

Menangle Park Project Area (South) (Figure 4.3 of the EA)

### APPENDIX 3 STATEMENT OF COMMITMENTS

Issue	Commitment
General	<ol style="list-style-type: none"> <li>1. The Proponent shall implement all practicable measures to prevent or minimise harm to the environment that may result from the construction or operation of the Project.</li> <li>2. The Proponent shall provide Camden Council and Campbelltown City Council with the Geographical Positioning System (GPS) co-ordinates and digital survey data for gas well surface locations and gas gathering systems within its Local Government Area, in a format suitable to Council, within three months of the commissioning of the gas wells.</li> <li>3. The Proponent shall provide Camden Council and Campbelltown City Council with the wellhead configurations of each gas well within three months of the gas well being commissioned.</li> <li>4. The Proponent shall comply with the following in the construction of the gas gathering system pipeline: <ol style="list-style-type: none"> <li>(a) the route of gas gathering and water transport systems and access roads follow previously or currently disturbed areas wherever possible;</li> <li>(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;</li> <li>(c) trenches are to be restored and reseeded with local grass seeds or a seed blend agreed to by the landowner on completion of the work;</li> <li>(d) the Proponent shall construct the gas gathering system so as not to impede lateral water flows;</li> <li>(e) the Proponent shall ensure that no crown or camber remains along the gas gathering systems, following construction;</li> <li>(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</li> <li>(g) trenches are not left open overnight, unless adequately covered.</li> </ol> </li> <li>5. The Proponent shall provide a site layout to the Director General prior to construction of a well surface location. The site layout would include information identifying: <ul style="list-style-type: none"> <li>• Initial rehabilitation of surplus construction footprint following completion of the construction phase; and</li> <li>• Rehabilitation and Landscape Concept Plan of well surface locations for the post-commissioning phase as well as following final closure of the wells.</li> </ul> </li> </ol>
Air Quality	<ol style="list-style-type: none"> <li>6. 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.</li> </ol>
Ecology	<ol style="list-style-type: none"> <li>7. The Proponent shall take all practicable measures to minimise potential flora and fauna impacts of the proposed Project.</li> <li>8. The Proponent shall prepare and implement a Landscape Management Plan detailing landscaping to be undertaken at well surface locations, including a maintenance program for these landscaping works. Landscaping shall be undertaken using appropriate native species.</li> <li>9. The Proponent shall take all practicable measures to limit the potential spread of noxious weeds at the sites.</li> </ol>

Issue	Commitment
Noise	<p>10. The proponent shall conduct construction activities, except for drilling of wells for the Project only between the following hours: 7.00 am to 6.00 pm Monday to Friday; and 8.00 am to 1.00 pm Saturdays.</p> <p>11. The Proponent shall implement all practicable measures to undertake the development in a way that minimises the noise generated.</p> <p>12. The Proponent will utilise a combination of design measures at well construction sites as required (refer to Section 8.5.5 for identified mitigation measures at each site) to ensure that noise impacts during the construction period are minimised.</p> <p>13. The Proponent will implement the following measures during the construction period to further manage potential noise impacts:</p> <ul style="list-style-type: none"> <li>(a) Preparation of a Construction Noise Management Plan (CNMP) to consider the following issues:</li> <li>(b) Identification of noise goals;</li> <li>(c) Identification of residential receivers;</li> <li>(d) Length of construction;</li> <li>(e) Hours of construction;</li> <li>(f) Best practice, construction equipment and noise mitigation;</li> <li>(g) Noise monitoring;</li> <li>(h) Community notification; and</li> <li>(i) Complaints handling.</li> </ul> <p>14. The Proponent shall undertake a program of noise monitoring once wells are operational in order to validate design of operating well surface locations. A combination of the mitigation measures and design options would be applied on a site by site basis, as determined by the results of noise monitoring, to ensure that operational noise is maintained at an acceptable level.</p>
Soil and Water	<p>15. The Proponent shall prepare and implement a Flood Management Plan for wells 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 those wells, and shall include measures to minimise and mitigate flooding impacts associated with the project.</p> <p>16. 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.</p>
Heritage	<p>17. The Proponent shall prepare and implement an Cultural Heritage Management Plan, in consultation with the DECC and relevant Aboriginal communities, and to the satisfaction of the Director-General for well surface locations, gathering lines and access roads associated with this Project which are likely to impact on the archaeological relics. The plan shall be submitted to the Director General prior to construction commencing of those works, and shall include:</p> <ul style="list-style-type: none"> <li>• A description of the measures that would be implemented for the salvage, relocation or mapping of the archaeological relics as identified in the Aboriginal Heritage Assessment included as Appendix H to this EA.</li> </ul>

<p>Safety and Risk Management</p>	<p>18. The Proponent shall prepare/update and implement an Emergency Response Plan and Safety Management System for the Project. The plan/ system shall be submitted to the Director-General, prior to the commissioning of the Project.</p> <p>19. Within three months of commissioning of the Project, the Proponent shall prepare to the satisfaction of the Director-General a compliance report detailing compliance with Commitment 17, including:</p> <ul style="list-style-type: none"> <li>(a) dates of study/ plan/ system completion/ submission and commencement of construction and commissioning; and</li> <li>(b) actions taken or proposed, to implement recommendations made in the studies/ plans/ systems.</li> </ul> <p>The report shall verify that:</p> <ul style="list-style-type: none"> <li>(a) The Emergency Plan required by Commitment 17 is effectively in place and that at least one emergency exercise has been conducted; and</li> <li>(b) The Safety Management System required by Commitment 17 has been fully implemented and that records required by the system are being kept.</li> </ul> <p>The report shall include a signed statement by the Proponent's representative responsible for the operation of the Project that for each study/ plan/ system:</p> <ul style="list-style-type: none"> <li>(a) The required study/ plan/ system has been undertaken or prepared to the relevant Hazardous Industry Planning Advisory Panel;</li> <li>(b) All recommendations of each study/ plan/ system have been implemented; and</li> <li>(c) All safety management systems and their associated risk controls have been implemented and are being maintained.</li> </ul>
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Environmental Management and Performance	<p>20. Prior to construction, the proponent shall consult with Integral Energy and TransGrid with regard to the siting and construction of well surface location MP04 to the satisfaction of the Director General.</p> <p>21. The Proponent shall prepare/update and implement an Environment, Health and Safety Management Plan (EHSMP) to provide environmental management practices and procedures to be followed during the operation of the Project. The EHSMP shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> <li>(a) identification of statutory and other obligations that the Proponent is required to fulfil in relation to operation of the Project;</li> <li>(b) a description of the roles and responsibilities for all key personnel involved in environmental management of the Project;</li> <li>(c) the environmental policies and principles to be applied to the operation of the Project; and</li> <li>(d) describe in general terms how the environmental performance of the Project would be monitored and managed.</li> </ul> <p>22. The Proponent 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 fracture stimulation of gas wells within the CGP.</p> <ul style="list-style-type: none"> <li>(a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General; and</li> <li>(b) be consistent with ISO 19011:2002 – Guidelines for Quality and/or Environmental Management Systems Auditing, or updated versions of these guidelines/manuals.</li> </ul> <p>The audit shall:</p> <ul style="list-style-type: none"> <li>(i) assess the environmental performance of the construction of the Project, and its effects on the surrounding environment;</li> <li>(ii) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;</li> <li>(iii) consider the Proponent's EHSMPs; and</li> <li>(iv) recommend measures or actions to improve the environmental performance of the construction of the Project, and/or its environmental management and monitoring systems (if required).</li> </ul> <p>23. Within three months of completion of the audit, the Proponent must submit a copy of the audit report to the Director-General, the NSW Heritage Office and DPI. The Director-General may require the Proponent to address certain matters identified in the report and any comments received from the NSW Heritage Office and DPI. Any action required to be undertaken shall be completed within such period as the Director-General may agree.</p>
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