

CAMDEN GAS PROJECT REHABILITATION & LANDSCAPE MANAGEMENT SUB PLAN

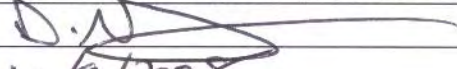
AGL Gas Production (Camden) Pty Limited
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Rehabilitation & Landscape Management Sub Plan

Approval:

Authorising Officer	David Kelly
Title	Head of Land and Approvals, Gas and Power Development
Signature	
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Controlled Document Distribution List:

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7	Field Environment and Safety Officer	Aaron Clifton
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1. Introduction

This Landscape and Rehabilitation Management Sub Plan (LRMSP) has been prepared to supplement the Environmental Management Plan (EMP) for the Camden Gas Project ('the project' or 'CGP').

The LRMSP has been developed to specifically address and manage potential environmental issues during rehabilitation in the short and long term up to final closure.

This Sub Plan has also been designed to meet the requirements for the preparation of a Weed Management Plan and requirements for management of visual issues and landscaping.

It is based on the previously prepared and approved Environment Health and Safety Management Plans and the AGL Energy Life Guard system. More information is available in the EMP.

1.1. Objectives

The objectives of the LRMSP are to minimise and manage potential landscape and rehabilitation issues and return the land to a pre-operations state or better in line with the relevant consent conditions and in consultation with the relevant landowner.

General

On completion of construction and operations activities, all areas shall be cleaned up and rehabilitated in consultation with the landowner, with the aim of returning the land to pre-operations uses and values or better.

The management objectives of rehabilitation are to:

- › To promptly carry out rehabilitation activities to promote vegetation regrowth in all disturbed work areas to a standard consistent with the surrounding area.
- › To monitor and maintain vegetation cover to ensure that it is consistent with the surrounding environment in consultation with the landowner.
- › To ensure that the compound area remains free of weeds.

Flora

- › To promote and maintain regrowth of vegetation.
- › To monitor and maintain vegetation cover to ensure that it is consistent with the surrounding environment in consultation with the landowner.
- › To monitor the well compound, access road, and gathering line routes for 12 months following rehabilitation to ensure that the area remains free of weeds.

Noxious Weeds, Pathogens and Pest Species

- › To prevent the introduction and dispersal of noxious weeds, pathogens and pest species.
- › To appropriately control the introduction and spread of weeds, pathogens and pest species;
- › To ensure that all interstate vehicles are appropriately checked and cleaned prior to site access

Visual Amenity

- › To minimise visual impacts from operations activities in consultation with the relevant landowner.



1.2. Targets

- › Zero complaints from landowners relating to vegetation cover or weed growth; and
- › Zero complaints received from local residents relating to visual impacts.

1.3. Responsibilities

Personnel responsible for implementing the requirements of this Sub Plan are described below:

- › Field Environment and Safety Officer responsible for informing site personnel of the rehabilitation management procedures through the induction program;
- › Field Environment and Safety Officer, Project Manager and Land and Compliance Officer responsible for implementing site specific recommendations as required;
- › Field Environment and Safety Officer, Land and Compliance Officer and Project Manager responsible for monitoring procedures and reporting as required;
- › Land and Compliance Officer responsible for landowner consultation with assistance from the Project Manager in addressing and managing incidents and complaints; and
- › All employees/ contractors are responsible for following the induction requirements that arise from their work activities onsite, so as to minimise the environmental impact.

2. Requirements

2.1. Key Licence/ Development Consent Requirements

Table 1: Key Licence / Development Consent Requirements

Reference	Requirement
Site Rehabilitation	
DA 15-1-2002: 72, 73 (Sch 3) DA 246-8-2002-i: 29, 30 (Sch 3) DA 282-6-2003i: 120-1 (Sch 4)	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. The Applicant shall carry out rehabilitation of the site in accordance with the requirements of the DPI and the Site Rehabilitation Management Plan.
DA 15-1-2002: 25 (Sch 3)	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.
DA-9-1-2005: 26 (Sch 2)	The Applicant shall provide landscaping around the well heads using appropriate native species.
DA-171-7-2005: 28-9 (Sch 3)	Site rehabilitation must protect any remnant local native riparian vegetation at the site and restore any riparian zones disturbed or otherwise affected by the work to a state that is reasonably representative of the natural ecotone of the protected waters system, in accordance with the endorsed plans and these conditions. Rehabilitated areas must be maintained to ensure successful native plant establishment. Maintenance must include any watering, weed control, replacement of plant losses, disease and insect control, mulching etc, necessary for successful plant establishment.

Reference	Requirement
DA 282-6-2003i: 124-5 (Sch 4)	<p>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.</p> <p>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.</p> <p>Note: The Director-General may require the Applicant to prepare and implement a Vegetation Management Plan and remedial works if disturbance is deemed excessive.</p>
Petroleum Production Leases 5 and 6, Schedule 2, Condition 5	Disturbed land must be rehabilitated to a sustainable/ agreed end land use to the satisfaction of the Director General.
Rehabilitation Management Plan	
PA 06_0137: 16-7 (Sch 3) PA 06_0138: 18-9 (Sch 3)	<p>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.</p> <p>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:</p> <p>(a) identify the areas likely to be disturbed by the project; and</p> <p>(b) describe the measures that would be implemented to rehabilitate the site.</p>
PA 06_0291: 1 (Sch 3)	<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> <ul style="list-style-type: none"> » the site construction layout and construction footprint; » the wellheads and production compound layout; » the route of the gas gathering lines and access roads; and » initial rehabilitation works following construction.

Reference	Requirement
PA 06_0291: 17-19 (Sch 3)	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> 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). details of who is responsible for monitoring, reviewing and implementing the plan. <p>This requirement can also be satisfied by the Site Layout Plan (Schedule 3, condition 1) addressing the above issues as appropriate.</p> <p>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.</p>
PA 06_0291: SoC 5, 8 (App 3)	<p>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:</p> <p>Initial rehabilitation of surplus construction footprint following completion of the construction phase.</p> <p>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.</p>
Gas Gathering Lines	
DA 15-1-2002: 68c (Sch 3) DA 246-8-2002-i: 28c (Sch 3) DA 282-6-2003i: 127b (Sch 4) DA 9-1-2005: 10b (Sch 2) DA 75-4-2005: 38b (Sch 2) DA 171-7-2005: 27c (Sch 3) PA 06_0137: 15d (Sch 3)	<p>trenches are to be restored and reseeded with local grass seeds on completion of the work;</p>
PA 06_0137: 15h (Sch 3) PA 06_0138: 17g (Sch 3)	<p>no crown or camber remains along any gas gathering system line, following rehabilitation; and</p>
DA 171-7-2005: 25 (Sch 3)	<p>Gas gathering stream crossings may be trenched. For all trenched crossings, the natural bed and bank profiles are to be restored to their original condition, with smooth and even surfaces, following installation of the gas pipe.</p>

Reference	Requirement
DA 282-6-2003i: 122-3 (Sch 4)	<p>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.</p> <p>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.</p>
Vegetation and Landscape Management Plan	
DA 15-1-2002: 23 (Sch 3)	<p>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:</p> <ul style="list-style-type: none"> (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.
DA 282-6-2003i: 12 (Sch 4)	The site shall be landscaped as shown on the Landscape Design and this landscaping shall be maintained for the life of the development.

Reference	Requirement
DA 282-6-2003i: 13 (Sch 4)	<p>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:</p> <ul style="list-style-type: none"> (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. <p>The monitoring results will specifically identify any remedial measures required.</p> <p>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.</p>

Reference	Requirement
DA 282-6-2003i: 15 (Sch 4)	<p>15. (a) The existing trees shown on the Landscape Design adjacent to the southern boundary of the Gas Treatment Plant site, must be retained. They must not be lopped or trimmed except on the advice of an independent arborist whose appointment has been approved for the purposes of this condition by the Director-General that the proposed work is reasonably necessary for safety reasons. The trees must be maintained in a healthy condition.</p> <p>(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.</p>
Weed Management	
DA-183-8-2004: 17 (Sch 2) DA-9-1-2005: 29 (Sch 2) DA-75-4-2005: 42 (Sch 2) DA-171-7-2005: 37 (Sch 3)	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.
PA 06_0291: SoC 9 (App 3)	The Proponent shall take all practicable measures to limit the potential spread of noxious weeds at the sites.
PPL 1, 2: 9(c) (Sch) Fields – Apap, EMAI (part), Johndilo, Joe Stanley, Kay Park, Loganbrae, Lipscombe, Mahon	The lease holder must observe any instructions given by any responsible authority with a view to the eradication of noxious weeds. The lease holder must make all reasonable efforts to prevent the introduction and establishment of noxious weeds.
Lighting	
DA 15-1-2002: 63 (Sch 3) DA 282-6-2003i: 5 (Sch 4)	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.
DA 282-6-2003i: 4, 8, 11 (Sch 4)	<p>4. The Applicant shall take all practicable measures to minimise any off-site lighting impacts from the development.</p> <p>8. The Applicant must ensure that wherever possible, any scheduled use of the flare occurs during daylight hours.</p> <p>11. The Applicant shall record the frequency of the operation of the flare and shall make this information available for inspection by the Director-General on request. The records shall include but not be limited to the following:</p> <ul style="list-style-type: none"> (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."

2.2. Key Legislative and Regulatory Requirements

Table 2: Lists the applicable New South Wales and Commonwealth legislation and policies for the project

Legislation / Policy	Relevance
NSW Environmental Planning and Assessment Act (EP&A Act) 1979	The Environmental Planning and Assessment Act 1979 (EP&A Act) and Regulation include provisions to ensure that proposals which have the potential to impact the environment are subject to detailed assessment, and provide opportunity for public involvement.
NSW Noxious Weeds Act 1993	<p>In NSW, the Noxious Weeds Act 1993 is applicable to the notification and classification of noxious weeds. While the act is administered by the NSW Department of Primary Industries, Local Control Authorities (LCA) are responsible for implementing the act on private land, usually the local council.</p> <p>The following species are present on the site and are listed under the Noxious Weeds Act:</p> <ul style="list-style-type: none"> » African Boxthorn (<i>Lycium ferocissimum</i>) » Blackberry (<i>Rubus fruticosus</i>) » Bridal Creeper (<i>Asparagus asparagoides</i>) » Paterson's Curse (<i>Echium sp.</i>) » Broad-leaf Privet (<i>Ligustrum lucidum</i>) » Narrow-leaf Privet (<i>Ligustrum sinense</i>) » Willows (<i>Salix sp.</i>)

3. Management

3.1. Well Rehabilitation Overview

The overall objective of undertaking rehabilitation at each of the well surface locations is to return the land to pre-operational land use and condition or better.

Rehabilitation of well surface locations would be undertaken in two main stages. These include:

- › Initial rehabilitation of surplus construction footprint following completion of the well drilling and construction phase to the commissioning and maintenance area; and
- › Final rehabilitation of well sites following closure of the wells.

The rehabilitation requirements for each well will be determined in accordance with the landowner, the agreement between the landowner and the company and the conditions of the development consent for the area. The surrounding land uses and options to minimise environmental impact would also be taken into consideration.

3.1.1. Initial Well Rehabilitation

The initial rehabilitation of surplus construction areas would be undertaken following the construction phase of the development. The initial construction footprint generally comprises a level well pad area and lined drill pit(s) with an excavated depth of approximately 2 to 3 metres.

Once the well has been drilled, stimulated, completed and production testing has been undertaken, surplus construction areas would be rehabilitated, and the construction footprint surrounding the well would be reduced to the commissioning (which includes dewatering) and maintenance area.

Typically, only the immediate wellhead infrastructure and equipment required for well commissioning would remain at the well surface location. The initial stage of rehabilitation works would include:

- › 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.

3.1.2. Closure and Final Well Rehabilitation

Upon completion of gas production operations, closure of the wells and rehabilitation of the well sites and gas gathering systems would be undertaken. Wells are expected to operate for approximately 15 years, therefore the closure and final rehabilitation of well surface locations would typically not occur until this time.

The final stage rehabilitation works would typically include:

- › Removing plant and equipment from well surface locations and removal of fenced compounds;
- › Filling in excavated areas and trenches;
- › Sealing/ plugging and abandonment of wells in accordance with DPI - Minerals guidelines;
- › Lightly ripping disturbed areas; and
- › Rehabilitation, contouring, and revegetating disturbed areas. Revegetating would include broadcast of seed and ongoing maintenance and monitoring activities to ensure successful vegetation cover is promptly established.

In order to prevent impact on future mining, the PPL conditions require removal of the steel pipe/casing from the coal seam and to log the location of the well. These activities would be undertaken during the closure and rehabilitation of a well surface location.

3.2. Rehabilitation of Gas Gathering Lines

The preferred method of final rehabilitation for the gas gathering system would be to purge with air or water in order to remove remaining gas, seal and then 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 land owner. 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.

3.3. Rehabilitation of Access Roads

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

3.4. Rehabilitation of Gas Plants

Please note that the development consent for the Ray Beddoe Treatment Plant (RBTP) requires the preparation of a Decommissioning Plan to the satisfaction of the Director General of the Department of Planning. Further details on the RBTP Decommissioning Plan are available in the Appendix. There are no present plans to rehabilitate the Rosalind Park Gas Plant.

3.5. Rehabilitation Models

The typical rehabilitation models used for different landuse types are described in the table below. The rehabilitation for each site is to be completed in line with the relevant development consent conditions and in consultation with the landowner to fit generally with the surrounding area.

Landuse	Rehabilitation Goal/ Model/ Objective	Description of Rehabilitation Works
Rural	Pasture	Area will be revegetated using a pasture seed blend in consultation with the Landowner.
	Native Tree Revegetation	Area will be revegetated with a seed blend in consultation with the landowner. Native local trees will also be planted at a density consistent with the surrounding area.
Industrial	Return to pre-existing state	Landform and area will be reinstated to a condition equal to or better than it was prior to AGL construction works commencing in consultation with the landowner.

Landuse	Rehabilitation Goal/ Model/ Objective	Description of Rehabilitation Works
Urban/ Residential	Specific goal to be confirmed depending on sub-category of urban use (eg park, streetscape, commercial etc)	Area to be revegetated and/or landscaped consistent with the surrounding area in consultation with the Landowner.

All of the above is subject to the relevant consent conditions.

3.6. Management Measures

The landscape and rehabilitation management strategies in Table 3 generally apply after the construction activities of the project are finished. They are designed to meet and fit in with site specific recommendations from the various Environmental Assessments and consents for the project.

It should be noted that the measures outlined in the table below relating to weed management have been included in this LRMSPP to address the requirement to prepare a Weed Management Plan (see Section 2.1) as part of the CGP.

Table 3 below summarises the measures to be implemented to manage potential landscape and rehabilitation issues and outlines responsibilities for their implementation.

Table 3: Landscape & Rehabilitation Management Measures

Activity	Action	Responsibility
General	The induction program shall inform all employees and contractors about rehabilitation management measures, control procedures for weeds, pathogens and pest species and the designated work areas and access routes and procedures.	Field Environment and Safety Officer
Access Roads	All operations activities including rehabilitation and maintenance shall be restricted to the compound area or designated gathering line corridor and designated access routes (where possible).	Field Environment and Safety Officer / Gas Plant Supervisor/ Land & Compliance Officer
Visibility (construction)	For well surface locations where residents may be exposed to extended periods of uninterrupted views during construction, green mesh or other appropriate fencing is to be erected around the construction compound in accordance with the recommendations of the relevant EA or Site Plan.	Field Environment and Safety Officer/ Project Manager

Activity	Action	Responsibility
Initial Rehabilitation	<p>All waste materials and equipment shall be removed from the area once backfilling and tie-ins are completed.</p> <p>Topsoil and vegetation material shall be respread in the immediate vicinity of the area of origin to limit the potential spread of weeds and pathogens.</p> <p>Waste management shall be implemented to avoid attracting vertebrate pests (see Waste Management Sub Plan).</p> <p>Sediment control measures shall be implemented where necessary to prevent erosion and water contamination. (See Soil and Water Management Sub Plan).</p> <p>Areas to be rehabilitated shall be graded to reinstate pre-existing surface contours and natural drainage patterns.</p> <p>All fences which were cut and replaced by gates during operations shall be repaired to at least the equivalent pre-operations condition, unless permanent gates or other arrangements are agreed with the landholder.</p> <p>Initial rehabilitation of the well construction compound and gas gathering lines is to be consistent with the established character of surrounding land.</p> <p>All flagging and bunting installed for environmental or safety reasons shall be removed.</p>	Field Environment and Safety Officer/ Project Manager
Stockpiles	<p>Cleared vegetation shall be stockpiled separately for subsequent re-spreading within the compound during site rehabilitation.</p> <p>Disturbed areas shall be progressively rehabilitated as soon as practicable.</p>	Field Environment and Safety Officer/ Project Manager
Construction - Weeds and Pathogens Cleaning Introduced Pest Species	<p>On first (and subsequent) entry to the District and prior to entering the construction area all vehicles, equipment and portable infrastructure shall be washed by air or water or demonstrated they are clean (namely, certificate/or other document to show they have been cleaned down), prior to coming to site. This shall be done prior to mobilisation to site.</p> <p>Cleaning procedures shall be thorough so as to remove all soil or organic matter from the surfaces of vehicles, equipment and portable infrastructure, including the undercarriage.</p> <p>Wash down by air or water of a vehicle and/or portable equipment shall be supervised by trained personnel and the vehicles details shall be recorded in a vehicle wash down register to be maintained by the Drilling Contractor.</p> <p>All vehicles shall be certified and registered as clean, before they shall be permitted access to the well site area.</p> <p>Topsoil and vegetation material shall be respread in the immediate vicinity of the area of origin to limit the potential spread of weeds and pathogens.</p> <p>All plant and equipment shall be inspected and be free of invertebrates and pest species prior to coming on site.</p> <p>Waste management shall be implemented to avoid attracting vertebrate pests (see Waste Management Sub Plan).</p>	Field Environment and Safety Officer/ Project Manager
Weed control and monitoring	<p>The well site, restored access tracks and gathering line routes shall be inspected for 12 months following the completion of rehabilitation, for evidence of soil settlement, weeds and pest animals.</p> <p>Active weed control shall be required at sites identified as infested for at least one year after construction. Additional appropriate control measures shall be utilised after this time, on the basis of monitoring results.</p> <p>Herbicides are to be used to kill noxious weeds. Drift, drip or run-off to surface waters or non-target species is to be avoided. Personnel using herbicides are to be appropriately trained and qualified.</p>	Field Environment and Safety Officer/ Land and Compliance Officer/ Project Manager

Activity	Action	Responsibility
Final Rehabilitation	<p>For each property a rehabilitation plan shall be developed to include requirements for reseeding and fertiliser as approved by the landholder.</p> <p>All rehabilitation works would be undertaken with maximum regard to environmental protection and rehabilitation, vegetation, subsoil and topsoil management, weed control, erosion and sedimentation management and revegetation in accordance with the EMP and this Sub Plan.</p> <p>Earthworks, vegetation clearing and soil disturbance would be limited to the construction and operational footprint as appropriate.</p> <p>Existing vegetation will be maintained wherever possible.</p> <p>If removal of the gas gathering system is required, the excavated trench would be backfilled and rehabilitated, including contouring and revegetation.</p> <p>Revegetation is to be undertaken as soon as works are complete.</p> <p>Revegetating would include broadcast of seed and ongoing maintenance and monitoring activities.</p> <p>All private tracks used during operations will be returned to their pre-operations state, or to a condition agreed by the landholder.</p>	Field Environment and Safety Officer/ Land and Compliance Officer/ Project Manager

3.7. Field Specific Requirements

The following management measures apply to the rehabilitation of specific operating gas fields where particular landscape and rehabilitation issues have been identified. These issues are:

- › Threatened Species;
- › Cumberland Land Snail (EMAI); and
- › Raptor Breeding Zones (EMAI).

The recommendations to manage these issues were implemented in the construction phase of the relevant gas fields. These issues now need to be considered and investigated prior to final rehabilitation activities in existing fields.

Spring Farm and Menangle Park

Below are the recommended mitigation measures from the EA for the Spring Farm and Menangle Park areas:

- › A Landscape Management Plan would be prepared (or the existing Plan updated) in respect of the proposed Project to identify appropriate landscaping to be implemented at well surface locations along with a program of long-term maintenance for landscape works – satisfied by the Sub Plan along with the specific well surface location Site Layout Plans and Landscape and Rehabilitation Plans in the Appendix;
- › Screening in the form of appropriate fencing and landscaping will be implemented at well surface locations as necessary and in accordance with the Landscape Management Plan for the Project – see Appendix for the specific well surface location Site Layout Plans and Landscape and Rehabilitation Plans;
- › With regard to the future urban (residential, commercial and industrial) land release areas, where well surface locations are expected to be near residential development, material used for fencing or the enclosure will be chosen to integrate with the surrounding urban form – see Appendix for the specific well surface location Site Layout Plans and Landscape and Rehabilitation Plans.



4. Monitoring and Reporting

4.1. Monitoring Requirements

Rehabilitation and landscape monitoring requirements for CGP include the following:

- › Environmental Operator and Field Environment and Safety Officer to inspect the well site, restored access tracks and gathering line routes for 12 months* following the completion of rehabilitation, for evidence of soil settlement weeds and pest animals. Additional rehabilitation maintenance works to be completed (as necessary) during the 12 month* period following the completion of rehabilitation.
- › Field Environment and Safety Officer and Land and Compliance Officer to inspect the rehabilitated area at the expiry of the 12 month* rehabilitation period to ensure the site has been rehabilitated to meet AGL's standard.
- › Land and Compliance Officer to consult with the Landowner on the rehabilitation.
- › Environment and Safety Officer, Project Managers and Land and Compliance Officer to monitor the vehicle wash down register.

*Note – Monitoring for a period of 12 months following the completion of rehabilitation is subject to consultation between AGL and the Landowner. Depending on weather conditions and Landowner requirements, the 12 month period may be reduced or extended accordingly to ensure that rehabilitation is established.

4.2. Reporting Requirements

Rehabilitation reporting requirements are in accordance with Development Consents, Petroleum Production Leases (PPLs), Annual Environmental Performance Report (AEPR) and Production Operations Plan (POP).

4.3. Records

Landscape and rehabilitation records to be maintained by AGL include:

- › Photographic records of disturbed areas during the rehabilitation period as appropriate;
- › AGL Operations Compliance Checklist; and
- › AGL Rehabilitation Sign-Off Form.



5. Administrative

5.1. Site Specific Plans

To be appended to this Sub Plan as they are prepared (see below).

5.2. Attachments

- › Vegetation and Landscape Management Plan Proposed Gas Treatment Plant, prepared by URS, 28 June 2004
- › RPGP Road Landscape and Rehabilitation Management Plan
- › RBTP Decommissioning Plan
- › Spring Farm and Menangle Park specific Site Layout Plans and Rehabilitation Plans

5.3. Definitions

Currently not applicable

5.4. Life Guard References

AGL Life Guard Standard 19 – Environmental Aspects and Impacts

Appendix: Table 4 – Gas Gathering Lines

Field	Lot/ DP
Glenlee	1102/DP883495
	1101/DP883495
	2/DP1076817
	54/DP864754
	501/DP869561
Wandinong	241/DP1046971
	242/DP1046971
Rosalind Park	2/DP622362
	3/DP622362
	PT35/DP230946
	58/DP632328
Sugarloaf	2/DP842735
	3/DP1007066
	2/DP717439
	200/DP1046336
	3/DP622362
	58/DP632328
EMAI	1/DP130288
	1/DP1067320
	2/DP1050479
Menangle Park	10/DP1022204
Mt Taurus	1/DP954424
Apap	11/DP664430
Joe Stanley	2/DP14701
Johndilo	64/DP785367
Loganbrae	3/DP811322
	6/DP808569
Kay Park	2/DP594242
Razorback	1/DP959711
	81/DP588337
	82/DP588337
	123/DP809576
	124/DP809576
Road reserve of Remembrance Drive	
Road reserve of Dawsons Road and Finns Road	



Field	Lot/ DP
Trunk Lines	
Glenlee Trunk	2/DP790254
(From Glenlee to Menangle Road Railway underpass)	2/DP737485
	X/DP378264
	D/DP19853
Rail corridor (cnr Racecourse Ave & Fitzpatrick St)	2/DP737485
	Racecourse Ave
	Menangle Road
Rosalind Park Trunk	M5/ Hume Highway
From Rosalind Park to Menangle Bridge	7/DP787284
	1/DP249393
	2/DP236059
	3/DP236059
Rail Corridor Menangle Rd	
Menangle Road	



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Apap	AP01	11/664430	PPL1	DA 15-1-2002i	DRILLED	AP02/3 co-loc.	See comment in Johndilo	284789.92	6225581.17	83.65
Apap	AP02	11/664430	PPL1	DA 15-1-2002i	APPROVED	AP01/3 co-loc.				
Apap	AP03	11/664430	PPL1	DA 15-1-2002i	APPROVED	AP01/2 co-loc.				
El Bethel	EB01	201/590247	PPL4	DA 171-7-2005	APPROVED		Incorporated in DA 282-6-2003i cond. 120-122 (sch4) in consultation with landowner			
El Bethel	EB02	202/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB03	202/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB04	202/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB05	21/581462	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB06	202/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB07	204/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB08	204/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB09	202/590247	PPL4	DA 171-7-2005	APPROVED					
El Bethel	EB10	204/590247	PPL4	DA 171-7-2005	APPROVED					
EMAI	EM01	2/1050479	PPL4	DA 282-6-2003i	P & A	EM40 co-loc.	Rehabilitation to be in accordance with DA cond.	290809.82	6226862.55	70
EMAI	EM02	2/1050479	PPL4	DA 282-6-2003i	DRILLED	EM39 co-loc.	120-122 (sch4) to satisfaction of DG DoP, in consultation with landowner	291422.96	6226471.87	69.3
EMAI	EM03	2/1050479	PPL4	DA 282-6-2003i	DRILLED			290731.09	6226355.8	70.06
EMAI	EM04	2/1050479	PPL4	DA 282-6-2003i	DRILLED			291160.61	6225991.95	72.11
EMAI	EM05	2/1050479	PPL4	DA 282-6-2003i	DRILLED			290636.21	6225552.07	82.51
EMAI	EM06	2/1050479	PPL4	DA 282-6-2003i	DRILLED			291439.23	6225689.84	72.52
EMAI	EM07	2/1050479	PPL4	DA 282-6-2003i	DRILLED			290643.08	6225108.06	79.65



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
EMAI	EM08	2/1050479	PPL4	DA 282-6-2003i	DRILLED			291369.87	6224831.91	64.13
EMAI	EM09	1/1067420	PPL4	DA 282-6-2003i	DRILLED			290835.42	6224539.01	83.82
EMAI	EM10	1/1067320	PPL4	DA 282-6-2003i	DRILLED			291261.73	6224012.88	69.27
EMAI	EM11	1/1067320	PPL4	DA 282-6-2003i	DRILLED			290767.91	6223965.99	71.82
EMAI	EM12	1/1067420	PPL4	DA 282-6-2003i	DRILLED	EM39 co-loc.		290777.78	6223540.55	82.72
EMAI	EM13	1/1067320	PPL4	DA 282-6-2003i	DRILLED			291203.73	6223127.16	69.23
EMAI	EM14	1/1067320	PPL4	DA 282-6-2003i	DRILLED			290659.62	6222641.61	79.9
EMAI	EM15	1/1067320	PPL4	DA 282-6-2003i	DRILLED			291251.78	6222570.87	69.79
EMAI	EM16	1/1067420	PPL4	DA 282-6-2003i	DRILLED			290515.79	6222098.8	79.51
EMAI	EM17	1/1067320	PPL4	DA 282-6-2003i	DRILLED			291445.16	6221956.84	75.99
EMAI	EM18	1/130288	PPL4	DA 282-6-2003i	DRILLED			289235.07	6221387.29	116.45
EMAI	EM19	1/130288	PPL4	DA 282-6-2003i	DRILLED			288582.98	6220997.26	100.12
EMAI	EM20	1/130288	PPL4	DA 282-6-2003i	DRILLED	EM38 co-loc.		288368.91	6221484.71	95.76
EMAI	EM21	1/1067320	PPL4	DA 9-1-2005	DRILLED		Incorp DA282 c120-122 sch4	291024.9	6223496.66	70.33
EMAI	EM22	1/1067320	PPL4	DA 9-1-2005	DRILLED			290279.3	6222889.87	92.91
EMAI	EM23	1/130288	PPL1	PA 06_0138	DRILLED		Rehabilitation to be in accordance with PA cond. 18-19 (sch3) to satisfaction of DG DoP, in consultation with landowner	288376.87	6221940.66	97
EMAI	EM24	1/130288	PPL1	PA 06_0138	DRILLED			288970.09	6221748.11	89.14
EMAI	EM25	1/130288	PPL1	PA 06_0138	DRILLED			289510.09	6221788.67	134
EMAI	EM26	1/130288	PPL1	PA 06_0138	APPROVED					
EMAI	EM27	1/130288	PPL1	PA 06_0138	DRILLED			288624.52	6222549.01	82.33



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
EMAI	EM28	1/1067320	PPL1	PA 06_0138	DRILLED			289936.5	6222207.5	130.58
EMAI	EM29	1/130288	PPL1	PA 06_0138	APPROVED					
EMAI	EM30	1/130288	PPL1	PA 06_0138	DRILLED			289759.66	6222624.11	120.29
EMAI	EM31	1/130288	PPL1	PA 06_0138	DRILLED	EM32 co-loc.		289410.47	6223132.2	105.19
EMAI	EM32	1/130288	PPL1	PA 06_0138	DRILLED	EM31 co-loc.		289412.85	6223128.32	105.22
EMAI	EM33	2/1050479	PPL1	PA 06_0138	DRILLED			289497.3	6223752.36	94.77
EMAI	EM34	2/1050479	PPL1	PA 06_0138	DRILLED			289007.64	6224674.24	72.39
EMAI	EM35	2/1050479	PPL1	PA 06_0138	APPROVED					
EMAI	EM36	2/1050479	PPL1	PA 06_0138	APPROVED					
EMAI	EM37	1/130288	PPL1	PA 06_0138	DRILLED	EM30 co-loc.		289764.15	6222623.78	120.29
EMAI	EM38	1/130288	PPL1	DA 282-6-2003i	DRILLED	EM20 co-loc.	DA cond. 120-122 (sch4) as in EMAI above	288365	6221481	94.95
EMAI	EM39	2/1050479	PPL4	DA 282-6-2003i	APPROVED	EM02 co-loc.				
EMAI	EM40	2/1050479	PPL4	DA 282-6-2003i	DRILLED	EM01 co-loc.		290806.18	6226865.58	69.94
Glenlee	GL02	501/869561	PPL4	DA 9-1-2005	DRILLED		Incorp in DA 282 cond. 120-122 sch4	292406.4	6227636.3	129.2
Glenlee	GL03	501/869561	PPL4	DA 9-1-2005	P & A			292918.57	6227833.01	120.8
Glenlee	GL04	501/869561	PPL4	DA 9-1-2005	DRILLED			292835.76	6227365.57	105.92
Glenlee	GL05	1101/884495	PPL4	DA 282-6-2003i	DRILLED		EMAI above	292627.56	6226852.41	92.18
Glenlee	GL06	1061/801407	PPL4	DA 9-1-2005	DRILLED		EMAI above	291653.68	6227201.73	94.7
Glenlee	GL07	1101/884495	PPL4	DA 282-6-2003i	DRILLED		DA cond. 120-122 (sch4) as in EMAI above	292216.05	6227044.97	144.5
Glenlee	GL08	1101/884495	PPL4	DA 282-6-2003i	DRILLED			291710.22	6226295.89	68.6



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Glenlee	GL09	1101/884495	PPL4	DA 282-6-2003i	DRILLED			292045.86	6226006.71	70.33
Glenlee	GL10	1102/884495	PPL4	DA 282-6-2003i	DRILLED	GL14/15 co-loc.		292634.27	6226341.14	77.18
Glenlee	GL11	501/869561	PPL4	DA 9-1-2005	DRILLED		DA cond. 120-122 (sch4) as in EMAI above	292915.73	6227688.43	110.49
Glenlee	GL12	501/869561	PPL4	DA 9-1-2005	DRILLED	GL02 co-loc.		292412.2	6227643.99	129
Glenlee	GL13	501/869561	PPL4	DA 9-1-2005	DRILLED	GL11 co-loc.		292910.12	6227695.66	110.44
Glenlee	GL14	1102/883495	PPL4	DA 282-6-2003i	DRILLED	GL10/15 co-loc.	DA cond. 120-122 (sch4) as in EMAI above	292641.53	6226340.42	76.99
Glenlee	GL15	1102/883495	PPL4	DA 282-6-2003i	DRILLED	GL10/14 co-loc.		292651.32	6226339.56	76.9
Glenlee	GL16	1101/883495	PPL4	DA 282-6-2003i	DRILLED	GL07 co-loc.		292210.24	6227045.82	144.72
Glenlee	GL17	1101/884495	PPL4	DA 282-6-2003i	APPROVED	GL05 co-loc.				
Johndilo	JD01	64/785367	PPL1	DA 15-1-2002i	DRILLED		Rehabilitation to be in accordance with DA cond. 25 (sch3) to satisfaction of DG DoP, in consultation with landowner	284742.26	6222539.65	104.7
Johndilo	JD02	64/785367	PPL1	DA 15-1-2002i	P & A			284284.6	6222579.63	116.93
Johndilo	JD03	64/785367	PPL1	DA 15-1-2002i	P & A			283745.97	6222552.19	129.08
Johndilo	JD04	64/785367	PPL1	DA 15-1-2002i	DRILLED			284384.25	6221947.3	113.03
Johndilo	JD05	64/785367	PPL1	DA 15-1-2002i	DRILLED			282743.99	6221903.73	147.64
Johndilo	JD06	64/785367	PPL1	DA 15-1-2002i	DRILLED			282698.68	6221577.5	138.75
Johndilo	JD07A	64/785367	PPL1	DA 15-1-2002i	DRILLED			283393.76	6221614.53	127.66
Johndilo	JD09	64/785367	PPL1	DA 15-1-2002i	P & A			284079.05	6221374.97	134.56
Johndilo	JD10	64/785367	PPL1	DA 15-1-2002i	P & A			284514.52	6221441.1	131.02
Johndilo	JD11	62/735555	PPL1	DA 15-1-2002i	DRILLED			285026.36	6222124.49	120.87



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Joe Stanley	JS01	2/14701	PPL1	DA 15-1-2002i	DRILLED			285281.39	6223722.59	92.55
Joe Stanley	JS02	2/14701	PPL1	DA 15-1-2002i	P & A			284550.36	6223458.91	96.42
Joe Stanley	JS03	2/14701	PPL1	DA 15-1-2002i	DRILLED			283972.2	6223894.57	110.77
Joe Stanley	JS04	2/14701	PPL1	DA 15-1-2002i	DRILLED			283357.09	6223861.94	119.45
Kay Park	KP01	2/594242	PPL2	DA 246-8-2002i	DRILLED	KP05/6 co-loc.	Rehab in accord. with DA cond. 29-30 sch3 to DG DoP satisfaction in consult with landowner	286389.02	6220337.53	145.74
Kay Park	KP02	2/594242	PPL2	DA 246-8-2002i	DRILLED			286504.97	6220779.65	126.7
Kay Park	KP03	2/594242	PPL2	DA 246-8-2002i	DRILLED			286976.28	6220605.01	139.1
Kay Park	KP05	2/594242	PPL2	DA 246-8-2002i	DRILLED	KP01/6 co-loc.				
Kay Park	KP06	2/594242	PPL2	DA 246-8-2002i	APPROVED	KP01/5 co-loc.				
Logan Brae	LB05	6/808569	PPL1	DA 15-1-2002i	DRILLED		See comment in Johndilo	286568.73	6221221.95	119.27
Logan Brae	LB06	6/808569	PPL1	DA 15-1-2002i	DRILLED			286964.66	6221668.23	133.24
Logan Brae	LB07	6/808569	PPL1	DA 15-1-2002i	DRILLED			286729.55	6222084.51	108.58
Logan Brae	LB09	8/808569	PPL1	DA 15-1-2002i	DRILLED	LB11 co-loc.		287514.06	6221800.16	121.61
Logan Brae	LB10	8/808569	PPL1	DA 15-1-2002i	DRILLED			287688.39	6222306.91	104.33
Logan Brae	LB11	8/808569	PPL1	DA 15-1-2002i	DRILLED	LB09 co-loc.		287505.16	6221791.23	123.04
Lispcome	LP01	100/793384	PPL4	DA 15-1-2002i	DRILLED		See comment in Johndilo	283701.2	6225846.72	96.2
Mahon	MH01	5/773423	PPL1	DA 15-1-2002i	DRILLED			284140.26	6224817.42	93.9
Menangle Park	MP04	31/1100981	PPL4		PROPOSED					
Menangle Park	MP05	1/1/790254	PPL4		PROPOSED					



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Menangle Park	MP06	2/790254	PPL4		PROPOSED					
Menangle Park	MP11	2/737485	PPL4		PROPOSED					
Menangle Park	MP13	10/1022204	PPL4	DA 183-8-2004i	DRILLED	MP30 co-loc.	Incorporated into DA 282-6-2003i cond. 120-2 (sch4)	291760.95	6225071.12	70.31
Menangle Park	MP14	10/1022204	PPL4	DA 183-8-2004i	DRILLED			292147.69	6225019.63	77.3
Menangle Park	MP15	10/1022204	PPL4	DA 183-8-2004i	DRILLED			291518.56	6224363.31	70.13
Menangle Park	MP16	10/1022204	PPL4	DA 183-8-2004i	DRILLED			291371.96	6223665.25	70.51
Menangle Park	MP17	10/1022204	PPL4	DA 183-8-2004i	DRILLED			291796.82	6223565.49	69.1
Menangle Park	MP19	8/249530	PPL4		PROPOSED					
Menangle Park	MP21	1/1/598067	PPL4		PROPOSED					
Menangle Park	MP22	8/249530	PPL4		PROPOSED					
Menangle Park	MP23	1/1/598067	PPL4		PROPOSED					
Menangle Park	MP24	1/2/236059	PPL4		PROPOSED					
Menangle Park	MP30	1/10/1022204	PPL4	DA 183-8-2004i	DRILLED	MP13 co-loc.	EMAI above	291760.4	6225066.5	70.31



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Menangle Park	MP33	1/1/249393	PPL4		PROPOSED					
Mt Taurus	MT01	1/954424	PPL4	DA 183-8-2004i	DRILLED		Incorporated into DA 282-6-2003i cond. 120-122 (sch4)	289924.8	6221420.56	83.94
Mt Taurus	MT02	1/954424	PPL4	DA 183-8-2004i	DRILLED			290390.27	6221662.5	74.21
Mt Taurus	MT03	1/954424	PPL4	DA 183-8-2004i	DRILLED			291048.39	6221472.75	72.59
Mt Taurus	MT04	1/954424	PPL4	DA 183-8-2004i	DRILLED			289673.53	6220940.48	103.08
Mt Taurus	MT05	1/954424	PPL4	DA 183-8-2004i	DRILLED			290356.88	6221081.21	99.36
Mt Taurus	MT06	1/954424	PPL4	DA 183-8-2004i	DRILLED			290907.84	6221069.57	75.84
Mt Taurus	MT07	1/954424	PPL4	DA 183-8-2004i	DRILLED			290035.08	6220582.08	95.03
Mt Taurus	MT08	1/954424	PPL4	DA 183-8-2004i	DRILLED			290554.58	6220600.43	95.97
Mt Taurus	MT09	1/954424	PPL4	DA 183-8-2004i	DRILLED			291099.75	6220433.47	97.53
Mt Taurus	MT10	1/954424	PPL4	DA 183-8-2004i	DRILLED			291265.99	6220809.74	89.85
Razorback	RB03	1/959711	PPL4	PA 06_0137	APPROVED		Rehabilitation to be in accordance with PA cond. 16-17 (sch3) to satisfaction of DG DoP, in consultation with landowner			
Razorback	RB04	1/959711	PPL4	PA 06_0137	APPROVED					
Razorback	RB05	2/572954	PPL4	PA 06_0137	APPROVED					
Razorback	RB06	2/572954	PPL4	PA 06_0137	DRILLED	RB09 co-loc.		288879.22	6220159.73	101.86
Razorback	RB07	81/588337	PPL4	PA 06_0137	DRILLED			288011.5	6220287.15	126.76
Razorback	RB08	124/809576	PPL4	PA 06_0137	DRILLED			288451.67	6220281.71	125.77
Razorback	RB09	124/809576	PPL4	PA 06_0137	DRILLED	RB06 co-loc.		288880.56	6220165.8	101.81
Razorback	RB10	1/120764	PPL4	PA 06_0137	DRILLED			287810.84	6219786.79	137.53
Razorback	RB11	123809576	PPL4	PA 06_0137	DRILLED			288211.17	6219746.92	116.75



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Razorback	RB12	123/809576	PPL4	PA 06_0137	DRILLED			288662.67	6219694.1	107.29
Rosalind Park	RP02	35/230946	PPL4	DA 282-6-2003i	DRILLED		DA cond. 120-122 (sch4) as in EMAI above	294234.35	6223151.83	138.08
Rosalind Park	RP03	3/622362	PPL4	DA 282-6-2003i	DRILLED			294452.7	6223423.49	162.59
Rosalind Park	RP04	58/632328	PPL4	DA 282-6-2003i	DRILLED			294829.05	6222992.82	130.65
Rosalind Park	RP05	58/632328	PPL4	DA 282-6-2003i	DRILLED			295202.92	6223377.16	136.2
Rosalind Park	RP06	58/632328	PPL4	DA 282-6-2003i	DRILLED			295292.84	6222918.26	118.1
Rosalind Park	RP07	58/632328	PPL4	DA 282-6-2003i	DRILLED			294692.68	6222443.51	105.64
Rosalind Park	RP08	35/230946	PPL4	DA 282-6-2003i	DRILLED			294257.76	6222765.1	129.45
Rosalind Park	RP09	35/230946	PPL4	DA 282-6-2003i	DRILLED			294103.89	6222076.67	100.78
Rosalind Park	RP10	2/622362	PPL4	DA 282-6-2003i	DRILLED			293827.36	6222634.5	108.47
Rosalind Park	RP11	2/622362	PPL4	DA 282-6-2003i	DRILLED			293407.95	6222131.86	70.31
Rosalind Park	RP12	2/622362	PPL4	DA 282-6-2003i	DRILLED			293397.35	6222719.02	90.72
Spring Farm	SF04A	13/1081753	PPL4		PROPOSED					



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Spring Farm	SF10	1/1007608	PPL4		PROPOSED					
Spring Farm	SF17	13/10811753	PPL4		PROPOSED					
Spring Farm	SF20	1/1007608	PPL4		PROPOSED					
Sugarloaf	SL01	2/842735	PPL4	DA 75-4-2005	APPROVED		Incorporated into DA 282-6-2003i cond. 120-122 (sch4) in consultation with landowner			
Sugarloaf	SL02	2/842735	PPL4	DA 75-4-2005	DRILLED			294099.72	6224788.05	98.22
Sugarloaf	SL03	2/842735	PPL4	DA 75-4-2005	DRILLED	SL08/9 co-loc.		294633.67	6224431.62	141.33
Sugarloaf	SL04	3/1007066	PPL4	DA 75-4-2005	APPROVED					
Sugarloaf	SL05	2/842735	PPL4	DA 75-4-2005	APPROVED					
Sugarloaf	SL06	3/1007066	PPL4	DA 75-4-2005	APPROVED	SL10 co-loc.				
Sugarloaf	SL07	3/1007066	PPL4	DA 75-4-2005	APPROVED					
Sugarloaf	SL08	2/842735	PPL4	DA 75-4-2005	APPROVED	SL03/9 co-loc.				
Sugarloaf	SL09	2/842735	PPL4	DA 75-4-2005	APPROVED	SL03/8 co-loc.				
Sugarloaf	SL10	3/1007066	PPL4	DA 75-4-2005	APPROVED	SL06 co-loc.				
Wandinong	WG01	242/1046971	PPL4	DA 282-6-2003i	DRILLED		DA cond. 120-122 (sch4) as in EMAI above	289716.7	6220190.42	114.6
Wandinong	WG02	242/1046971	PPL4	DA 282-6-2003i	DRILLED			290188.23	6220008	125.73
Wandinong	WG03	242/1046971	PPL4	DA 282-6-2003i	DRILLED			290725.93	6220079.86	85.16
Wandinong	WG04	242/1046971	PPL4	DA 282-6-2003i	DRILLED			289491.31	6219796.16	106.75
Wandinong	WG05	242/1046971	PPL4	DA 282-6-2003i	DRILLED			289905.91	6219513.99	128.78
Wandinong	WG06	242/1046971	PPL4	DA 282-6-2003i	DRILLED			290356.7	6219508.69	106.78



Field	Well	Lot/DP	Title	Approval	Status	Notes	Rehabilitation	X(M)	Y(M)	Elevation (M)
Plant										
Rosalind Park	RPGP	35/230946	PPL4	DA 282-6-2003i	Operational	EMAI above				
Apap	RBTP	11/664430	PPL1	DA 15-1-2002i	Care & maintenance	See comment in Johndilo				