NSW GOVERNMENT | Environment, Climate Change & Water

Your reference:
Our reference: FIL07/13224:DOC10/57671:CP
Contact: Craig Patterson, (02) 4224 4100

Department of Planning
(Attention: Clay Preshaw)
GPO Box 39
SYDNEY NSW 2001

Dear Sir

REVISED ENVIRONMENTAL ASSESSMENT
PROPOSED MODIFICATION TO APEX ENERGY GAS EXPLORATION PROJECT

I refer to the Project Application, revised Environmental Assessment (EA) and accompanying information provided for the above proposal which was received by the Department of Environment, Climate Change and Water (DECCW) on 21 December 2010 for comment. The proposed modification relates to an existing approval (MP09-161) and involves an additional exploration and gas monitoring borehole with associated infrastructure and site access.

DECCW has reviewed the revised EA and the additional information provided in response to the Department's submission dated 22 November 2010. DECCW has determined that it will be unable to support the proposal in its current form, as it is inconsistent with the guiding principles for threatened biodiversity assessment contained in the draft *Guideline for Threatened Species Assessment* (DPI & DEC, 2005). Specifically, the loss of approximately 100 Prickly Bush-pea *(Pultenaea aristata)* individuals and 0.66 hectares of habitat is not considered to maintain or improve environmental outcomes for the *Pultenaea aristata*.

Further details on DECCW's assessment and the *Pultenaea aristata* species are provided in Attachment A.

Should you have any further enquiries, please contact the above officer.

Yours sincerely

25/01/11

PETER BLOEM
Manager Illawarra
Environment Protection and Regulation

Attachment A

N:\EPRD\STAFF FOLDERS\CP\2011\DOC10-57671 - PART 3A - APEX ENERGY - ADD BOREHOLE AI19.DOC

PO Box 513 Wollongong NSW 2520
Level 3, 84 Crown Street Wollongong NSW
Tel: (02) 4224 4100 Fax: (02) 4224 4110
ABN 30 841 387 271
www.environment.nsw.gov.au

ATTACHMENT A

ADDITIONAL INFORMATION

Prickly Bush-pea (*Pultenaea aristata*)

The Prickly Bush-pea (*Pultenaea aristata*) is listed as threatened under the *Threatened Species Conservation Act 1995* (TSC Act) and *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The species is endemic to the Woronora Plateau, between Helensburgh and Mount Keira and is often associated with the Upland Swamp vegetation complex. It is also known to occur in association with areas of impeded drainage and creek lines within Exposed Sandstone Scribbly Gum Woodland communities.

The conservation of the *Pultenaea aristata* is threatened by understorey clearing, road widening, road maintenance activities and inappropriate fire regimes (DECC 2005).

Evaluation of impacts

In correspondence dated 22 November 2010, Department of Environment, Climate Change and Water (DECCW) sought clarification on how many *Pultenaea aristata* individuals would be removed by the construction of borehole AI19 and the access road. This information does not appear to have been provided. The Niche Report states that the proposal will result in the removal of 0.66 hectares of vegetation which is considered to be either known or potential habitat for *Pultenaea aristata*.

In order to estimate the likely number of individuals that may be removed and/or impacted by the proposal, DECCW undertook its own review of Figure 2 of the Niche Report. Approximately 100 records/individuals were counted. DECCW also undertook a review of the Atlas of NSW Wildlife (DECCW 2011) and determined that a local population of 169 individuals occurs within a one kilometer radius of the subject site. Together the local population could include upwards of 269 individuals.

DECCW's *BioBanking Threatened Species Profile Database* states that the *Pultenaea aristata* cannot withstand a loss of greater than six individuals within the Sydney Metro Catchment Management Authority region (DECCW, 2011). DECCW does not support the current proposal as it involves the potential loss of approximately 100 individuals (37 percent of the local population) and 0.66 hectares of known or potential habitat.

The Environmental Assessment (EA) should include an examination of the number of *Pultenaea aristata* individuals to be removed and/or impacted by the proposal and what effect the proposal is likely to have on the life cycle of the species and its local population.

Measures to avoid or mitigate impacts

The guiding principles for a threatened biodiversity assessment are that impacts must be avoided first by using prevention and mitigation measures. In correspondence dated 22 November 2010, DECCW sought clarification of the avoidance, mitigation and management measures to be put in place as part of the proposal to avoid or minimise the impact on threatened species, populations, endangered ecological communities and their habitats. A measure identified in the EA included confining passing bays / overtaking lanes along the access road to 'previously cleared areas.' However other feasible alternatives to avoid or mitigate impacts, including but not necessarily limited to; alternative borehole sites, different access routes to the site, the 'do nothing' option, alternative technologies to avoid passing bays (for example, mobile traffic lights) or reduced frequency of passing bays, have not been considered.

Biodiversity offset strategies are a last resort and should only be considered where the impacts cannot be avoided or mitigated. The EA states that the project construction and operation would occur over a 16 week period, however the residual loss of approximately 100 *Pultenaea aristata* individuals and 0.66 hectares of habitat is likely to endure beyond the life of the proposal. The Niche Report states that compensatory actions are not considered warranted as the subject site has been

determined to be 'previously disturbed'. DECCW does not support this conclusion. The subject site has conservation value both for representative and threatened species, including the *Pultenaea aristata.*

To satisfy Step 4 of the draft *Guideline for Threatened Species Assessment* (Department of Planning) and DECCW, 2005), the EA should identify and describe all measures to avoid or mitigate impacts associated with the proposal.

NSW GOVERNMENT | Planning

Contact: Katrina Stankowski
Phone: 02 98738569
Email: Katrina.Stankowski@planning.nsw.gov.au
Our ref: B290160
Your ref: 09_0161 – MOD 1
File: 10/22518

Mr Howard Reed
Manager Mining Projects
Major Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Attention: Clay Preshaw

Dear Mr Reed

RE: Heritage Branch comments on Public Exhibition of Environmental Assessment for Apex Energy Project Approval – Application to Modify (09_0161 – MOD 1).

The Heritage Branch has received your letter, dated the 7th of February, requesting that the Branch provide comments on the Environmental Assessment currently on public exhibition to modify the Apex Energy Project. It is noted that the Heritage Branch has commented on this project previously in November 2010.

Accordingly, the Heritage Branch has assessed the Environmental Assessment provided- 'Illawarra Coal Seam Gas Exploration Drilling and Gas Monitoring Program Proposed Additional Borehole Site AI 19' by Olsen Environmental Consulting Pty Ltd, dated January 2011.

The Heritage Branch has no comments as there is no identified non-Aboriginal heritage sites located around the proposed location of the additional borehole and given the disturbed state of the area around the site, there is unlikely to be an intact subsurface non-Indigenous archaeology.

Should there be any unexpected discovery of any non-Aboriginal heritage during the lifetime of the above project the Heritage Branch would be pleased to provide advice as required.

I hope that this information is of assistance. If you have any further enquiries regarding this matter, please contact Katrina Stankowski at the Heritage Branch on (02) 98738569.

Yours sincerely

23/02/2011

Vincent Sicari
Manager
Conservation Team
Heritage Branch

NSW GOVERNMENT | Industry & Investment

OUT11/556

Mr Howard Reed
Manager Mining
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Mr Reed

Apex Gas Project Modification Project
(09-0161- MOD 1)

I refer to your letter dated 16 December 2010 regarding Apex Energy's proposed modification to the Apex Gas exploration project.

Industry & Investment NSW (I&I NSW) technical officers have reviewed the revised Environmental Assessment (EA) for the project and provide the following comments.

RECOMMENDATIONS

1. A Surface Disturbance Notice must be submitted to Industry and Investment NSW prior to commencement of any activities on site.

2. Clearing of intact native vegetation communities should be avoided, or at least minimised.

3. Aquifers encountered in the drilling must be isolated to ensure there is no mixing of waters.

4. Boreholes when no longer required must be grouted for the full length of the hole ensuring (1) isolation of aquifers, (2) no gas is escaping, and (3) mine safety.

5. A method of determining rehabilitation success must be described in the Surface Disturbance Notice.

MINERALS AND ENERGY DIVISION
PO BOX 344 Hunter Regional Mail Centre NSW 2310
516 High St, Maitland NSW 2323

ABN 72 189 919 072
www.industry.nsw.gov.au
Tel: 02 4931 6666

6. Before and after photographs are to be submitted with the Exploration Rehabilitation and Relinquishment Report (EDG 13), which will be required upon completion of the Exploration Program.

7. Apex Energy must calculate the cost of rehabilitation of each borehole and submit to the Environmental Sustainability Unit of I&I NSW for approval. No drilling activity can be undertaken until the Rehabilitation Security has been received by the Department.

Strategic completion criteria have no yet been developed, but there is a commitment to developing these in conjunction with the Sydney Management Authority. These will be included in a Vegetation Clearing and Rehabilitation Management Plan which is to be developed. This is considered an acceptable outcome.

In conclusion, it is recommended that I&I NSW supports the proposed modification to Apex Energy Exploration Project subject to the above seven conditions being met.

Should you have any enquires regarding this matter please contact Steve Cozens Senior Project Officer, Industry Coordination on (02) 8289 3932.

Yours sincerely

William Hughes
Director
Industry Coordination

18/1/11

NSW GOVERNMENT | Industry & Investment

Your Reference: 904505
Our Reference: V11/108
OUT11/2493

Mr Howard Reed
Manager Mining Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Mr Reed

Section 75W Project Modification Application

Apex Gas Exploration Project (09_0161 – MOD 1)

I refer to the proposed modification submitted by Apex Energy NL to the Environmental Assessment (EA) for the Apex Gas Exploration Project.

The additions relating to water management in the modified EA are noted and the original comments provided in our correspondence dated 18 January 2011 are considered sufficient.

Should you have any questions regarding these requirements, please contact Steve Cozens, Senior Project Officer, Industry Coordination on (02) 8289 3932.

Yours sincerely

William Hughes
Director
Industry Coordination

23/2/11

Minerals and Energy Division
Level 6, 201 Elizabeth Street, Sydney NSW 2000
PO Box K220 HAYMARKET NSW 1240
Tel: (02)8289 3932 Fax: 02 9286 3208
ABN 72 189 919 072
www.industry.nsw.gov.au

NSW GOVERNMENT | **Office of Water**

Mr Howard Reed
Manager, Mining Projects
NSW Department of Planning
GPO Box 39
SYDNEY NSW 2001

Contact: Mark Simons
Phone: 02 4904 2572
Fax: 02 4904 2501
Email: mark.simons@water.nsw.gov.au

Our ref: ER20476
Your ref: 9042505

20 December 2010

Attention: Clay Preshaw

Dear Mr Reed

Section 75W Project Modification Application
Apex Gas Exploration Project (09_0161 – MOD 1)

I refer to your letter of the 16 December, 2010, inviting comment on the Environmental Assessment (EA) for the above project. NOW has reviewed the EA and provides detailed comments in Attachment A, with recommended conditions of approval (additional to those conditions already imposed by the original determination for this project) in Attachment B.

If you require any further information, please contact Mark Simons on telephone 4904 2572.

Yours sincerely

Mark Mignanelli
Manager Major Projects and Assessment

ATTACHMENT A

NOW COMMENTS ON ENVIRONMENTAL ASSESSMENT APEX GAS EXPLORATION PROJECT (09_0161 – MOD 1)

Water Licences under the Water Management Act and Water Act.

The *Water Management Act 2000* (WMA) governs sustainable and integrated management of water sources across the State. Licensing of water is regulated under the Water Management Act 2000 for areas which are subject to a Water Sharing Plan, and the Water Act 1912 for water sources not covered by a Water Sharing Plan. The *Water Sharing Plan for the Greater Metropolitan Region Surface Water Sources* (WSPGMSWS) and the *Water Sharing Plan for the Greater Metropolitan Region Ground Water Sources* (WSPGMGWS) are currently in draft form, following a public consultation phase. The outcomes of the consultation phase are being considered by the minister, prior to the plans being finalised. Until this occurs, water sources in the area of the proposed development are regulated under the Water Act 1912.

Action 20 of the Project Commitments confirms that the proponent will obtain necessary groundwater licences and approvals only on encountering groundwater resources during drilling. This action should be undertaken prior to the commencement of any drilling activity. NOW Recommends a condition of consent which reflects this requirement.

Watercourse Crossings and protection of Riparian Zones

The proponent has stated (Page 29) that the proposed development footprint does not interfere with any riparian zones, as both the proposed drill pad and access road are on a ridgeline well away from streamlines. However, Figure 2, on page 15, shows a significant upland swamp on Forest Gully, which may be within 40m of the proposed site. The potential for damage to this swamp, particularly as a result of water quality / sedimentation issues, is of concern. These swamps are typically dependent on groundwater (Groundwater Dependent Ecosystems), and the lowering of groundwater levels as a result of drilling activities is also of concern. NOW recommends the Environmental Management Plan for the site referred to in Action 32 of the project commitments should address the protection of this swamp, utilising appropriate erosion and sedimentation controls, and that sumps and storage facilities for the containment of drilling fluid and other chemicals be constructed in such a manner as to preclude any contamination of groundwater in the area.

Groundwater Quality

Action 13 of the project commitments describes the construction of a sump to manage drill cuttings and water from the core hole. This sump should be constructed in a manner which prevents contamination of groundwater. Similarly for action 27, any produced groundwater should be managed in a way which prevents contamination of surface water and near surface groundwater.

Groundwater Monitoring

The proponent is undertaking these exploration activities with a stated longer term objective of producing commercial quantities of gas. This process may ultimately have a significant impact on groundwater levels in both the coal seam aquifers and those overlying them. In order to facilitate assessment of future stages of the project, the proponent should establish a network of monitoring bores around the site to collect baseline data, and using this to develop a model of the hydrogeological behaviour of the area.

Bore Construction

Construction of all wells must be undertaken by a driller holding a water driller's licence, valid in New South Wales. It is recommended that a condition requiring this, and stating the requirements for construction and reporting requirements are included in the consent conditions.

End Attachment A
20 January 2011

ATTACHMENT B

NOW RECOMMENDED CONDITIONS OF APPROVAL
APEX GAS EXPLORATION PROJECT (09_0161 – MOD 1)

Water Licensing Requirements

An authorisation under the *Water Act 1912* or the *Water Management Act 2000* is to be obtained from the NSW Office of Water with the appropriate purpose identified for any activity relating to the taking of or interception of groundwater prior to that activity commencing.

Management of Produced Groundwater and Drilling Water

Structures for the containment of drilling water and produced groundwater are to be either above ground or fully lined. Off Site Disposal of these materials should be addressed in the Water Management Plan.

Bore Construction

Construction of all wells must be undertaken by a driller holding a water driller's licence, valid in New South Wales.

Groundwater Monitoring

A **water quantity and quality monitoring plan** is to be established and maintained which incorporates a monitoring schedule and adopted parameters to be monitored as agreed to by the NSW Office of Water.

- The monitoring program should establish appropriate sites for monitoring bores.
- Monitoring bores should monitor discrete aquifers and not be open hole. All major aquifers should be monitored using data loggers, with emphasis on the aquifers where extraction occurs or the environment relies on groundwater (e.g. baseflow to rivers, Groundwater Dependent Ecosystems).
- The monitoring program should include reporting of water level and quality in both the target and overlying aquifers
- The results of monitoring are to be reported to the NSW Office of Water regularly, at a frequency consistent with the reporting arrangements required by other authorities or agencies to avoid duplication of effort where practical.

End Attachment B
20 January 2011

Our Ref: 497DA434-2 (11/225) STH09/02309
Contact: Tim Webster 4221 2769
Your Ref: 09_0161-MOD1

23 FEB 2011

PCU019898

Department of Planning
GPO Box 39
SYDNEY NSW 2001

Attention: Clay Preshaw

WOLLONGONG CITY COUNCIL – PART3A MAJOR PROJECT 09_0161-MOD1, DARKES FOREST ROAD, DARKES FOREST – APEX GAS EXPLORATION PROJECT, ADDITIONAL BORE HOLE

Dear Sir

Reference is made to your letter dated 7 February 2011 regarding the subject major project application modification forwarded to the Roads and Traffic Authority (RTA) for consideration.

The RTA has reviewed the information provided and as per previous correspondence dated 15 November 2010, does not object to the proposed modification as access to the additional bore hole is from Darkes Forest Road which is an unclassified road and the additional traffic generated by the modification is not considered to have a significant impact on the classified road network.

Upon determination of this matter, it would be appreciated if the Department of Planning could forward a copy of the Notice of Determination to the RTA within the appellant period for advice and consideration.

Yours faithfully

Department of Planning
Received
25 FEB 2011
Scanning Room

Trish McClure
Manager, Road Safety and Traffic Management
Southern Operations and Engineering Services

SYDNEY CATCHMENT AUTHORITY

PO Box 323 Penrith NSW 2751
Level 4, 2-6 Station Street
Penrith NSW 2750
Tel 1300 722 468 Fax 02 4725 2599
Email info@sca.nsw.gov.au
Website www.sca.nsw.gov.au

Our Ref: D2011/001780
Your Ref: 9042505

Mr Howard Reed
Manager Mining Projects
Major Development Assessment
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Attention: Clay Preshaw

Dear Mr Reed

APEX GAS EXPLORATION DRILLING PROJECT
MODIFICATION APPLICATION 09_0161_MOD 1

I refer to your letter dated 2 February 2011 inviting the Sydney Catchment Authority (SCA) to make a written submission on the Modification Application by Apex Energy NL (Apex).

The SCA has specific roles, objectives and functions detailed in the *Sydney Water Catchment Management Act 1998* (SWCM Act). In particular the SCA's functions include:

- managing and protecting the catchment areas, the dams, storages and pipelines
- protecting and enhancing water quality.

The SCA gives effect to the function of protecting and enhancing water quality across the Sydney drinking water catchment by applying the neutral or beneficial effect on water quality criteria in State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011.

The SCA is a stakeholder with respect to the proposal because:

- the proposed additional exploration borehole site is located within the Woronora Special Area on land owned and managed by the SCA
- the SCA has responsibilities relating to the Special Area under the *Sydney Water Catchment Management Act 1998*
- the proposal has the potential to adversely affect water quality and the ecological integrity of the Special Area.

While the SCA has no statutory planning role with respect to the proposal, the SCA's approval is required to enter the Special Area pursuant to clause 9 of the Sydney Water Catchment Management Regulation 2008. The SCA typically includes specific environmental management conditions in its approval to enter the Special Area.

The SCA has carried out a detailed review of the Environmental Assessment (EA) and has prepared the attached submission. The SCA's assessment has focused on issues of interest to the SCA including the following:

Printed on recycled paper
ABN 36 682 945 185

- Access and Work in the Special Areas
- Vegetation Clearing and Rehabilitation
- Soil and Water Management
- Gas Flaring, Hot Works and Bushfire Management

The SCA understands that it is not essential for Apex to drill at site AI19. In these circumstances and given the environmental impacts associated with re-opening currently closed Fire Road 9A the SCA does not support this Modification Application.

The SCA also wishes to advise that in its capacity as the owner of the land on which the additional borehole is intended to be located, that it unlikely to consent to the location of that borehole on the SCA's land.

If the SCA's recommendation is not accepted and the application is to be approved, the SCA requests further consultation with the SCA.

Please do not hesitate to contact Malcolm Hughes on 4724 2452 or email malcolm.hughes@sca.nsw.gov.au if you wish to discuss the matter.

Yours sincerely,

2/3/11

GREG SHEEHY
Senior Manager Sustainability

Encl : SCA's Submission

SUBMISSION BY THE SYDNEY CATCHMENT AUTHORITY
on the
APEX GAS EXPLORATION DRILLING PROJECT
MODIFICATION APPLICATION 09_0161_MOD 1
FEBRUARY 2011

INTRODUCTION

The Sydney Catchment Authority (SCA) has specific roles, objectives and functions detailed in the *Sydney Water Catchment Management Act 1998* (SWCM Act). In particular the SCA's functions include:

- managing and protecting the catchment areas, and the dams, storages and pipelines
- protecting and enhancing water quality.

The SCA gives effect to the function of protecting and enhancing water quality across the Sydney drinking water catchment by applying the neutral or beneficial effect on water quality criteria in State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011.

The SCA is a stakeholder with respect to the proposal because:

- the proposed additional exploration well site is located within the Woronora Special Area on land owned and managed by the SCA
- the SCA has special responsibilities relating to the Special Area under the SWCM Act
- the proposal has the potential to adversely affect water quality and the ecological integrity of the Special Area.

The SCA has no statutory planning role with respect to the proposal. However the SCA's approval is required to enter the Special Area pursuant to clause 9 of the *Sydney Water Catchment Management Regulation 2008* (SWCM Regulation).

The proposed drill site is located on land within the Woronora Special Area (not the Metropolitan Special Area as stated in the EA). The Proponent will therefore need to obtain the SCA's approval to enter the Special Area. Site access would also require re-opening about 1 km of SCA Fire Road 9A that had been previously closed and rehabilitated. The SCA currently has no operational reasons to re-open the fire road.

ASSESSMENT OF THE PROPOSAL

Issues of interest to the SCA in the Environmental Assessment (EA) for the additional borehole include the following:

- Access and Work in the Special Areas
- Vegetation Clearing and Rehabilitation
- Soil and Water Management
- Gas Flaring, Hot Works and Bushfire Management.

Assessment of the proposal with regards to these issues is presented below.

Access and Work in the Special Areas

Information in the EA

The modification application involves an additional borehole (AI19) in order for Apex Energy NL (Apex) to collect core samples from unmined coal seams within PEL 444. The borehole is a type 3 – as detailed in the March 2009 Environmental Assessment. The entire length of the borehole would be encased in steel and concrete which prevents any uncontrolled movement of material into or out of the borehole. The drilling activity would be followed by a period in which flow, pressure and permeability testing would be undertaken. Drilling and testing would take approximately 6 weeks. Once the testing is completed the core hole would be filled with concrete to the surface.

The proposed drilling operation is commonly used in coal exploration and ventilation of underground mines and the drilling rig set-up is typical of such operations. The drill site will include a compound and drill area of approximately 50 m x 70 m. Site access would require re-opening about 1 km of SCA Fire Road 9A that had been previously closed and rehabilitated.

The EA states that the proposal will involve about 0.16 ha of primary vegetation disturbance at the borehole site and 0.50 ha of secondary vegetation disturbance along the closed Fire Road, comprising:

- Exposed Sandstone Scribbly Gum Woodland (the borehole site is also located within this community)
- Upland Swamp Fringing Eucalypt Woodland
- Upland Swamp-Banksia Thicket.

EA Section 5 describes the environmental precautions and mitigation measures proposed by Apex. Work is proposed 24 hours a day 7 days a week with adequate justification provided for this requirement. The EA states that the proposed gas testing would not result in major gas emissions and would not require any flaring of gas.

Apex has included in EA Section 6 a number of project commitments relating to work on SCA land, including liaising with the SCA to obtain agreement on pre-commencement requirements.

SCA Assessment

The information about the drilling program in EA Sections 2 and 3 is sufficiently detailed to obtain an understanding of the overall proposal, environmental controls and environmental mitigation measures applicable to the site.

The SCA has concerns about the proposed borehole location. The SCA has an established preference that any mining exploration activities proposed for SCA land, including site access, should be located on previously disturbed or cleared sites and only where the required environmental assessment can demonstrate that the proposed activities are likely to have a neutral or beneficial effect on water quality.

As establishing the proposed borehole and site access will require primary vegetation disturbance and re-clearing along a closed fire road, the SCA would prefer the borehole not be located as proposed. The SCA has no operational reasons to re-open the fire road.

The SCA is also aware that Apex has identified and evaluated an alternative strategy for obtaining their required information from a previously approved borehole – see 'Potential Drilling Project (2 Core + 5 Production Wells) – Illawarra / Bulli, Apex Energy NL, Feb 2010'. The report's author, Chris Rogers, Chief Operating Officer, Apex Energy NL states on p19, *"... Apex has scope to replace this well with an approved well if the need arises. This well is AI06 which is a type 2 ..."*

As borehole AI06 is located at a cleared site with appropriate access, the SCA recommends this modification application **not be** approved.

Vegetation Clearing and Rehabilitation

Information in the EA

As described above, the borehole site is adjacent to the revegetated fire road in Exposed Sandstone Scribbly Gum Woodland. Part of the drill site would be located on the disturbed margin of the fire road and partly in Exposed Sandstone Scribbly Gum Woodland that would need clearing. This is referred to as primary vegetation disturbance.

The vegetation along the revegetated fire road is comprised of Exposed Sandstone Scribbly Gum Woodland, Upland Swamp Fringing Eucalypt Woodland and Upland Swamp-Banksia Thicket. This is referred to as secondary vegetation disturbance.

EA Section 4.3 and Appendix II provide an assessment of the impacts on native flora and concludes the works are unlikely to have a significant impact. A number of mitigation measures and commitments regarding site rehabilitation and revegetation are identified.

SCA Assessment

The SCA is aware of the submission to the Department of Planning from Peter Bloem, Manager Illawarra, Environmental Protection and Regulation, DECCW. DECCW does not support the current proposal due to potential impacts on Prickly Bush-pea (*Pultenaea aristata),* which is listed as threatened under the *Threatened Species Conservation Act 1995.*

The SCA considers the impacts identified by DECCW are not consistent with the protection of ecological integrity, which is one of SCA's main goals in the management of the Special Areas. Therefore the SCA does not support the current proposal involving clearing vegetation regrowth along the currently closed Fire Road 9A and at the borehole site.

The SCA refers to the advice from Apex that borehole AI06 is already approved and is located at a cleared site with appropriate access, the SCA recommends this modification application **not be** approved.

Soil and Water Management
If the SCA's objections as detailed above are not accepted, the SCA recommends the following issues be considered.

Information in the EA

Soil and water management is discussed in EA Section 4.2 and Appendix 1. Potential water related impacts at the site are consistent with the issues identified for the previously approved boreholes.

Surface water and sediment controls are identified for managing the potential water impacts. These include:

- a conceptual site layout for Air Drilling, Core Drilling Using In-Ground Fluid Pits. Site layout is to be confirmed at a pre-drilling site inspection with the SCA
- an excavated drill sump and an earth spoil bund, the main components of the dirty water containment system. The minimum bund wall height would be 660 mm, providing capture of a 20-year, 6 hour rainfall event.
- additional recommendations to avoid or minimise water impacts identified in the earlier Part 3A EA (September 2008), which would also apply this site. These include water quality monitoring to assess requirements for management of groundwater brought to the surface that have not been successfully confined within on-site tanks or pits and are contained behind the site bund wall.

A significant upland swamp is described as being 60 m due west of the borehole location. The EA states that clearing would not encroach on the swamp and it should be able to be protected from any adverse water quality impacts.

Access to the site is proposed to be provided by re-opening about 1 km of SCA Fire Road 9A. This would involve slashing existing vegetation, re-grading the road surface and re-installing appropriate table drains and crossover banks. On completion of the site activities, the fire road would be re-closed and re-vegetated to SCA requirements.

SCA Assessment

As borehole AI06 is located at a cleared site with appropriate access, the SCA recommends this modification application **not be** approved.

Gas Flaring, Hot Works and Bushfire Management

The EA states that the gas testing proposed would not result in major gas emissions and would not require any flaring of gas. Notwithstanding, the EA also includes some references to flaring procedures, fire management requirements and Project Commitments consistent with the previous Part 3A EA.

If gas flaring becomes necessary, the SCA should be consulted.

The fire prevention and protection measures proposed are considered to be adequate. The SCA requires Apex to meet its requirements relating to Bushfire Season and Hot Works on SCA land and these requirements should be specifically include in a Project Commitment or Condition of Approval.

This a draft copy subject to the General Manager's signature.

Mr Howard Reed
Manager Mining Projects
Major Projects Assessment
Mining & Industry Projects
Department of Planning
GPO Box 39
SYDNEY NSW 2001

Dear Sir

SECTION 75W PROJECT MODIFICATION APPLICATION - APEX GAS EXPLORATION PROJECT - MP-2007/103/A

The Environmental Assessment for the modification application for an additional borehole for gas exploration has been reviewed by Council.

The following comment are forwarded for information.

Environmental Matters

Council concurs with environmental safeguards recommended by Eco-engineering to minimise impact from the proposed activity.

To ensure that all the recommendations in the consultant's report are complied with, in relation to dust emission, soil contamination, soil erosion, water pollution, protection of the identified endangered fauna and floral species, protection of the upland swamp, protection of the shallow perched aquifer, it is recommended that all the proposed activities be supervised and certified by a qualified environmental consultant.

In addition it is noted that Condition 7 of Schedule 3 of the project approval (23/09/09) requires the production of "Vegetation Clearing and Rehabilitation Management Plan" (VCRMP) by a ".suitably qualified expert"
The VCRMP should include the requirement for an ecologist who is familiar with Pultenaea aristata and Cryptostylis hunteriana to be present on-site during clearing operations. Ideally, a rapid, pre-clearing survey should be carried out by the ecologist prior to commencement of clearing

The VCRMP should also refer to DECCW (2009) Infection of frogs by amphibian chytrid causing the disease chytridiomycosis and Threatened Species Management Information Circular No. 6 - Hygeine Protocol for the Control of Disease in Frogs. A Hygeine Protocol according to these publications should be included in the VCRMP.

Traffic Matters

It is recommended that visibility splays at the access entrance are to be maintained in accordance with AUSTROADS, "Guide to Traffic Engineering Practice, part 5: Intersections at Grade".
The proposed security gate at the intersection of the fire frail is to be located at least 12.5 metres back from the road to allow vehicles to wait safely without obstructing traffic while the gate is unlocked and opened. The proposed gate should be designed to open inwards so as not to obstruct a waiting vehicle.

Heritage

No additional comments.

Yours faithfully

TOTAL ENVIRONMENT CENTRE INC.
LEVEL 478 LIVERPOOL STREET, SYDNEY, NSW 2000
Ph: 02 9261 3437 Fax 02 9261 3990
www.tec.org.au

23rd February 2011

RE: Apex Additional Borehole Modification

TEC opposes the approval of Apex's proposal for a number of reasons.

In September 2010 TEC wrote to key Cabinet Sub-Committee members appointed to formulate the NSW Coal Strategy. In it we outlined our position regarding coal mining and CSM extraction:

- Impose an immediate moratorium on new CSM extraction in NSW while a NSW CSM Environmental Strategy is developed with full community and independent scientific input. This follows recent pollution incidents in Queensland and the Lower Hunter Valley in NSW and mounting international evidence about the damage CSM extraction is having upon the environment.
- Compel all companies with currently operating or proposed longwall mines to reveal any relationship with CSM extraction and review all existing Part 3A approvals that have not included these plans and instruct the Department of Planning to fully engage with the public in the review.
- Establish areas in NSW that are off limits to longwall mining and/or CSM extraction based on environmental, water supply, agricultural and infrastructure values including a ban on CSM in Sydney's Metropolitan Special Areas covering the drinking water catchment and State Conservation Areas in the Southern Coalfield.

The then NSW Coal Strategy has now become the NSW Coal & Gas Strategy and commenced a process in which TEC is on the reference panel.

Given the Apex Additional Borehole Modification lies within the Woronora Special Area and the priority TEC and other stakeholders will give to the protection of water supply catchments during the development of the strategy, the planning proposal is opposed on this basis alone and should not be proceeded until the strategy is concluded.

The determination of the proposal will send a message to the proponent and all CSM operators with expectations of accessing these highly sensitive areas and should take place once a statewide policy has been established.

The proponent's previous project approved in this area (07-0103) appears to have breached some very basic conditions of its approval. A number of plans were required of the proponent and environmental monitoring plans and results were required to be displayed on the company's website. As of February 2011, the proponent had still not displayed any results and in September 2010 stated that no fieldwork had taken place.

Not only is this a breach of the consent conditions for the initial project but also it denies the public and other entities the ability to properly assess the current proposal in what is a highly sensitive environment. This is unacceptable.

TEC also believes that no boreholes or the clearing of native vegetation for these should encroach upon upland swamps in the project area. Twelve of the fifteen boreholes proposed appear to be in close proximity to upland swamps.

The detail of how much contaminated groundwater will be brought to the surface, where it will be transported and the impacts of truck movements on what have until now been little used fire trails is also insufficient. The project should not be approved unless the chances of an overflow of groundwater in extreme rainfall are completely nullified.

With policy in this area steering towards an examination of cumulative impacts, TEC recommends that consideration of surface disturbance by pipelines, holding ponds, contaminated groundwater etc. be undertaken in the context of a fully functioning gasfield, which according to the proponent's website is clearly what the company expects to have approved. The impacts of the existing longwall mining operation in the project area should also form part of this consideration.

Kind regards,

David Burgess
TEC

From: Darren Agar <Darren.m.agar@gmail.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 6:28 pm
Subject: Online Submission from Darren Agar (object)

I am opposed to this development due to the danger posed to the environment and potential damage to the vital water catchment

Name: Darren Agar

Address:
28a Maidstone street

Helensburgh

IP Address: 203-213-76-176.static.tpgi.com.au - 203.213.76.176

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Debby Avis <debsavis@y7mail.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 2:10 pm
Subject: Online Submission from Debby Avis of Helensburgh Resident (object)

No drilling must be allowed. My home is located right next to a proposed well with the only access being my dirt road, this will ruin my lifestyle and my being. Base samples of soil will be collected and compensation may be sought via the land and environment court and higher if my property/land is compromised.

Name: Debby Avis
Organisation: Helensburgh Resident

Address:
70 Princes Highway, Helensburgh

IP Address: nra-s-202-59-243-30.nortonrose.com - 202.59.243.30

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Kay Blanch <kayblanch@hotmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 21/02/2011 11:16 am
Subject: Gas Project - Additional Borehole Modification - Assessment 21st February 2011 11:16:23

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Kay Blanch
Email: kayblanch@hotmail.com
Phone: 0242216760
Address: PO Box 356 Corrimal 2518

From: Felix Bronneberg <fbronneberg@yahoo.com.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 13/02/2011 7:00 am
Subject: Online Submission from Felix Bronneberg (object)

I object to Apex Energy 's plans for an additional coal seam gas borehole - AI19 on Sydney Catchment Authority, drinking water catchment and pristine bushland This and the other 15 Apex boreholes should never have been approved for exploration.

Apart from the extensive bushland clearing and risk of pollutant waste water, exploration will lead to applications for commercial extraction - an enterprise that should never be allowed in such a highly biodiverse conservation and water catchment region. The risk of methane & heavy salt poisoning the catchment, combined with subsidence is far too great .

It should also be noted that borehole AI19 is stated as a Borehole type 3. The current EA statement only briefly refers to early clarifying documents, however Type 3 Boreholes (as per Apex Energy's documentation) require hydraulic fracturing (fraccing) as the drilling will take place on unworked coal seams devoid of goaf gas.

Name: Felix Bronneberg

Address:
318 Gipps Rd

Keiraville,

NSW, 2500

IP Address: cpe-121-213-205-181.lns16.cht.bigpond.net.au - 121.213.205.181

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

Naomi Nelson - Fw: Online Submission from Felix Bronneberg (object)

From: Felix Bronneberg <fbronneberg@yahoo.com.au>
To: <Naomi.Nelson@planning.nsw.gov.au>
Date: 13/02/2011 7:41 AM
Subject: Fw: Online Submission from Felix Bronneberg (object)

----- Forwarded Message ----
From: Clay Preshaw <Clay.Preshaw@planning.nsw.gov.au>
To: Felix Bronneberg <fbronneberg@yahoo.com.au>
Sent: Sun, 13 February, 2011 7:00:09 AM
Subject: Re: Online Submission from Felix Bronneberg (object)

I am out of the office until Monday 21 February.

Please direct your enquiries to Naomi Nelson at Naomi.Nelson@planning.nsw.gov.au or 9228 6339.

>>> fbronneberg 02/13/11 06:59 >>>

I object to Apex Energy 's plans for an additional coal seam gas borehole - AI19 on Sydney Catchment Authority, drinking water catchment and pristine bushland This and the other 15 Apex boreholes should never have been approved for exploration.

Apart from the extensive bushland clearing and risk of pollutant waste water, exploration will lead to applications for commercial extraction - an enterprise that should never be allowed in such a highly biodiverse conservation and water catchment region. The risk of methane & heavy salt poisoning the catchment, combined with subsidence is far too great .

It should also be noted that borehole AI19 is stated as a Borehole type 3. The current EA statement only briefly refers to early clarifying documents, however Type 3 Boreholes (as per Apex Energy's documentation) require hydraulic fracturing (fraccing) as the drilling will take place on unworked coal seams devoid of goaf gas.

Name: Felix Bronneberg

Address:
318 Gipps Rd

Keiraville,

NSW, 2500

IP Address: cpe-121-213-205-181.lns16.cht.bigpond.net.au - 121.213.205.181

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

This message is intended for the addressee named and may contain confidential/privileged information. If you

are not the intended recipient, please delete it and notify the sender.
Views expressed in this message are those of the individual sender, and are not necessarily the views of the Department.
You should scan any attached files for viruses.

From: Sally Chapman <yarras.sal@gmail.com>
To: <plan_comment@planning.nsw.gov.au>
Date: 26/02/2011 8:04 am
Subject: Apex Eneregy a/19 Borehole Expansion SUBMISSION

Dear Major Projects Assessment Committee,
I make this submission regarding Apex Energy's A/19 Borehole Expansion request, currently under consideration.

The proposed A/19 Borehole is to be located in pristine bushland that is also an essential remaining wildlife corridor. Extensive clearing will be required for the development.

Most significant of all is the fact that the Borehole is to be established in a key Sydney water catchment. Past experience shows that exploration leads to approvals for developments that should never occur. Sydney has already been forced to build a desalinisation plant to secure water supplies for an ever expanding population, yet we are willing to place our water supply in potential jeopardy.

The contamination of groundwater supplies is an identified risk in the process of "fraccing". The BTX chemicals used in the chemical process are known carcinogens. Additionally, the leaching of methane gas has serious health and climate effects.

My deep concern regarding this issue stems from the fact that my aged mother lives in Warren, Pennsylvania. This is a scenically glorious area being made unfit for human habitation by fraccing to extract "coal seam gas". The health and amenity of many communities have been severely damaged by this industry. Anecdotal evidence of similar consequences for landholders and communities in Australia is becoming overwhelming.

Assessors, this is an industry with serious issues to face. The process of "fraccing" is fraught with unacceptable risk for a significant water catchment. The haste to cash in is not seemly under the circumstances. The resource will still be there, waiting, when the environmental and health issues have been solved.

I hope you will consider these comments when making your determination.
Yours truly,
Sally Chapman
PO Box 230
Wauchope NSW 2446
(02) 65877244

From: Ben Crosby <crosby.ben@gmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 11/02/2011 11:31 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 11th February 2011 23:31:20

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Ben Crosby
Email: crosby.ben@gmail.com
Phone: 0404053872
Address: 1 Richard Ave Earlwood NSW 2206

From: Sarah DANIEL <sarahs_not@hotmail.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 5:22 pm
Subject: Online Submission from Sarah DANIEL (object)

Coal seam gas mining should simply not be considered. There is no purpose into exploration into this dangerous practice that is being marketed as the answer to our reliance on dirty coal. It is no better. The chemicals used are highly toxic and there are very high possibilities of these contaminating important water systems that we rely on for survival.

In places where Coal seam gas mining has gone ahead there have been issues that have followed such as gas leaking into ground water. This is dangerous for those who live around it but also continues to produce CO2 emissions that Coal seam gas mining has promised to limit.

The health of people and the land should come first over these mega companies and their false quick fixes to climate change.

There is substantial technology and resources to be producing clean renewable energy in abundance. It is time to move away from these unsustainable methods, we cannot risk more damage to our ecosystems. I want to see a just transition to green power, not another step into this down ward spiral that is putting us at risk.

Thank you for your time, please now let?s not waste the future.

Name: Sarah DANIEL

Address:
8 Blackall st Newcastle

IP Address: d110-33-206-76.mas801.nsw.optusnet.com.au - 110.33.206.76

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: "Charlotte Davis" <charlotte.e.davis@gmail.com>
To: <information@planning.nsw.gov.au>
Date: 3/29/2011 9:44 am
Subject: protest proposed expansion of Apex Energy's coal seam gas exploration

To Whom it may concern, Department of Planning,

I realise that I am a little late with this feedback on your proposal, but I believe there is the possibility of having my concerns forwarded nonetheless.

I would like to strongly protest the proposed expansion of Apex Energy's coal seam gas exploration. This is a dangerous and highly unregulated industry. This proposed Apex expansion is apparently just one of scores of new applications being considered or that have recently been approved. Apex Energy's coal seam gas (CSG) project in the Illawarra is of particular concern as it is in a Sydney drinking water catchment area. Apex currently has approval for 15 exploration bore holes and this new additional borehole could potentially involve the dangerous 'fraccing' procedure.

Other points I would like to make are:

- The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.

- Extensive bushland clearing will be necessary around the well site

- Exploration approval will lead to applications for full scale extraction which should never be allowed in the area

- Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.

- The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.

- There is potential for the highly dangerous fraccing procedure to be used.

Please stop this expansion of dangerous coal seam gas mining in a Sydney drinking water catchment.

Yours sincerely,

Charlotte Davis

From: Steven C Dillon <sc.dillon@qut.edu.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 10/02/2011 7:11 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 10th February 2011 19:11:44

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Steven C Dillon
Email: sc.dillon@qut.edu.au
Phone: 0418127788
Address: 37 Stanhope St Mt Gravatt 4122

From: Juliet Dingle <juliet@skymesh.com.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 22/02/2011 10:08 am
Subject: Gas Project - Additional Borehole Modification - Assessment 22nd February 2011 10:08:11

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

There are too many unknown consequences of gas seam mining associated with groundwater quality and quantity. These complex gas/water systems should not be tampered with at the risk of thousand year impacts, let alone immediate threats to livelihoods of locals and human health.

The gas mining companies should not be allowed to make enormous profits and breach MSDA and pollution regulations at the cost of our present and future wellbeing.

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Juliet Dingle
Email: juliet@skymesh.com.au
Phone: 0400206221
Address: 557 foxground rd foxground 2534

From: Maurice Dowson <dowson@fishinternet.com.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 10/02/2011 11:17 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 10th February 2011 23:16:53

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

The film GasLands exposed the hitherto unrecognised risks to public health, drinking water supplies and un-audited releases of methane to the atmosphere. Methane is more than 20 times more potent as a Greenhouse Gas than CO2, thus a dangerous contributor to Climate Change, and the IPCC should be called upon to quantify and comment on, methane releases from the thousands of \\\\\\\'fracked\\\\\\\' drill sites in the USA.

Clearly, \\\\\\\'fracked\\\\\\\' seams can release uncollected methane and toxic chemicals over large areas, and over the \\\\\\\'longer-term\\\\\\\', in an uncontrolled manner.

The general public will be horrified to learn of the risks to their drinking water supplies sourced from the Illawarra Escarpment areas.

Who will be held responsible, and accountable, for subsequent public health problems, should they arise, and with what penalties if litigation ensues?

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Maurice Dowson
Email: dowson@fishinternet.com.au
Phone: (02)42941312
Address: 38 Longview Cres Stanwell Tops, NSW 2508

From: Trevor Edmond <trevor@pawmedia.com.au>
To: <wollongong@planning.nsw.gov.au>, <hunter@planning.nsw.gov.au>, <informa...
Date: 3/29/2011 1:38 pm
Subject: Concern about drilling for gas

To whom it may concern.

Despite the decision already made I would like to submit my concern to the proposed expansion of Apex Energy's coal seam gas exploration.
There is global concern about the impact of the technology and methods employed to extract gas from rock and coal seams. Much of this has to do with the contamination of groundwater. I consider any threat to the purity of ground water to be reason enough to halt any exploration in regions that are considered to be sensitive.
There are insufficient regulations in place to protect a critical resource that is increasingly becoming scarce. Apex's application poses a threat to Sydney's water supply and should be halted immediately.

Other points I would like to make are:

- The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.
- Extensive clearing of fragile bushland will be necessary around the well site
- Exploration should not be allowed as it leads to expectations of full scale production.
- Overseas experience has shown ground water contamination and its impact on human and animal health to be considerable.

Natural gas or Coal Seam Gas exploration should not be permitted until there is absolute guarantee that it will have no impact on ground water and the environment

Yours sincerely,

Trevor Edmond

email trevor@movinglines.com.au
mob: 0418635990

From: Kim Feil <kimfeil@sbcglobal.net>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 15/02/2011 2:01 pm
Subject: Online Submission from Kim Feil (object)

Please refrain from approvina nay drilling untilt he EPA water study is completed. Also here in Texas the air tests are showing that the setback has an inverse relationship with pollution fallout. 300 fet are bypassed and 600 ft folks has tested positive for BTEX chemicals. Today an environmental tester said that 1,500-3,000 ft setback shows for example benzene has higher levels than closer tot he site. Do not devalue property and people's lives by drilling-find sustainables to be the real longterm solution. The Cornell study by Professor Howarth shows that natural gas may be as dirty as coal. I tried to send a picture of the YWCA at UTArlington University which is within 300 ft of a drill site contianing 22 wells behind that fence. A resident within 600 ft tested positive for BTEX. Here is the infrared video of the hydrocarbons also (radium is invisible) http://www.youtube.com/watch?v=7p-G36wAONc UTA vapors

Name: Kim Feil

Address:
409 N Elm, Arlington Texas 76011 USA

IP Address: ppp-70-247-161-87.dsl.rcsntx.swbell.net - 70.247.161.87

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Heather Fisher <heatherblue99@hotmail.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 21/02/2011 9:15 am
Subject: Online Submission from Heather Fisher of private (object)

I would like to record my strong opposition to any drilling for gas exploration in this area. The concern is that our water supply and ground water will become irrevocably contaminated and we simply cannot risk any more environmental damage. We must act to prevent this damage before it happens. Helensburgh and district is still reasonably clean and safe, thanks in part to the vigilance of the community, and we need to keep it that way.

Name: Heather Fisher
Organisation: private

Address:
31 The Crescent Helensburgh

IP Address: cpe-58-167-49-218.lns10.ken.bigpond.net.au - 58.167.49.218

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Heather Fisher <heatherblue99@hotmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 23/02/2011 11:08 am
Subject: Gas Project - Additional Borehole Modification - Assessment 23rd February 2011 11:08:31

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Heather Fisher
Email: heatherblue99@hotmail.com
Phone: 0417009651
Address: 31 The Crescent HELENSBURGH NSW 2508

From: IAN FLETCHER <ian.fletcher@live.co.uk>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 23/02/2011 9:02 am
Subject: Online Submission from IAN FLETCHER of NONE (object)

- The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.

- Extensive bushland clearing will be necessary around the well site

- Exploration approval will lead to applications for full scale extraction which should never be allowed in the area

- Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.

- The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.

- There is potential for the highly dangerous fraccing procedure to be used.

Name: IAN FLETCHER
Organisation: NONE

Address:
42 TUNNEL RD

HELENSBURGH NSW 2508

IP Address: cpe-121-217-252-47.lnse3.cht.bigpond.net.au - 121.217.252.47

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Wendy Fuller <narrabushcare@yahoo.com.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 6:19 pm
Subject: Online Submission from Wendy Fuller (object)

Dear Sir,

This is my personal submission against the proposed Apex coal seam gas exploration and project in Sydney's drinking water catchment.

Approval for exploration will inevitably lead to requests for full scale mining and this could lead to catastrophic consequences for this pristine catchment area.

People have been excluded from this area for many years to ensure its pristine nature for the benefit of the people.

Allowing any exploration or possible future mining is not in the best interests of the people.

Name: Wendy Fuller

Address:
9 Bombora Crescent

Mollymook NSW 2539

IP Address: - 123.208.163.140

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: patricia Gauci <patriciagauci@hotmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 21/02/2011 12:32 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 21st February 2011 12:32:16

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

Please please dont do this , its NOT worth wrecking our environment even more !!!

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
patricia Gauci
Email: patriciagauci@hotmail.com
Phone: 0437540790

Address: 2b robertson Helensburgh 2508

From: justin guest <j.guest@web.de>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 21/02/2011 11:39 pm
Subject: Online Submission from justin guest (object)

I am against this project being carried out in a catchment area because of concerns about contamination of ground water. There are numerous cases of groundwater contamination occuring internationally and also now in Australia in conjunction with such gas extraction proceedures. Even if the risks are considered low, I would expect prudence to be exercised in a water catchment area in a country where conserving water is of such vital importance.

Name: justin guest

Address:
17 ocean breeze drive lennox head nsw 2478

IP Address: cpe-121-217-40-16.lnse1.cht.bigpond.net.au - 121.217.40.16

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Benjamin Hammond <pie_and_all_that_jazz@live.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 15/02/2011 5:03 pm
Subject: Online Submission from Benjamin Hammond (object)

It is beyond comprehension that the APEX request for another bore hole in a water catchment is even being considered in the first place. Yes we need energy, but we need water to live more, especially with alternate and cleaner energies available and less high-risk areas for mining. Exploration in water catchments is a terrible idea, even more so when its in the middle of beautiful bushland which will need to be destroyed. I plead with you not to put Wollongong's and Sydney's water, environment and health under threat by approving a bore hole which may be used for coal seam methane extraction giving the adverse health effects which are proven to be caused by the process of fracking and the Environmental impact that it has had on ground water.

Name: Benjamin Hammond

Address:
17 Allenby Street, Doonside, NSW

IP Address: - 119.225.183.85

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Catherine Hensen <cathyh44@gmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 14/02/2011 4:06 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 14th February 2011 16:05:53

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Catherine Hensen
Email: cathyh44@gmail.com
Phone: 0242618072
Address: 49 Cachia Blvd Horsley 2530

From: Karin Hensen <kenroz@aapt.net.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 13/02/2011 10:02 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 13th February 2011 22:02:15

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

CSG is not an alternative to coal. It will increase, not decrease, Greenhouse Gas emissions. The extraction of CSG using the highly contentious fracking technique, has the potential to irreversibly contaminate our water supplies. Obviously opening cracks in the surface rock can only further exacerbate the loss of water from dams. Very recently its has emerged that despite one of the wettest years in a decade, water levels in Woronora Dam dropped from 41% to 33% from Jan 2010 to Jan 2011. It is the only main Sydney dam to record a drop; others in the same period have risen on average from 51% to 74%.

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Karin Hensen
Email: kenroz@aapt.net.au
Phone: 0242942968
Address: 11 The Cresecent Helensburgh 2508

From: Karin Hensen <Kenroz@aapt.net.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 13/02/2011 9:34 pm
Subject: Online Submission from Karin Hensen of n/a (object)

CSG is not an alternative to coal. It will increase, not decrease, Greenhouse Gas emissions. The extraction of CSG using the highly contentious fracking technique has the potential to irreversibly contaminate our water supplies. Obviously opening cracks in the surface rock can only further exacerbate the loss of water from dams. Very recently its has emerged that despite one of the wettest years in a decade, water levels in Woronora Dam dropped

Name: Karin Hensen
Organisation: n/a

Address:
11 The Crescent

Helensburgh

2508

IP Address: c-59-101-39-231.hay.connect.net.au - 59.101.39.231

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Nikki Hensen <nikki.h.nl.au@live.com.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 8:34 pm
Subject: Online Submission from Nikki Hensen (object)

I don't believe Apex should be allowed to threaten my drinking water and increase the risk of fire in my local area.

Name: Nikki Hensen

Address:
11 The Crescent Helensburgh

IP Address: c-59-101-121-11.syd.connect.net.au - 59.101.121.11

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Nikki Hensen <nikki.h.nl.au@kive.com.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 22/02/2011 8:38 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 22nd February 2011 20:38:08

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Nikki Hensen
Email: nikki.h.nl.au@kive.com.au
Phone: 04 4294 2968
Address: 11 the Crescent Helensburgh 2508

From: Ron Hensen <ron.hensen@bluescopesteel.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 4:17 pm
Subject: Online Submission from Ron Hensen (object)

- The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.

- Extensive bushland clearing will be necessary around the well site

- Exploration approval will lead to applications for full scale extraction which should never be allowed in the area

- Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.

- The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.

- There is potential for the highly dangerous fraccing procedure to be used.

Name: Ron Hensen

Address:
49 Cachia Blvd Horsley

IP Address: bslsydpims01.net.csc.net.au - 202.53.198.82

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Yvette Johnson <dave.sidebottom@bigpond.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 8:51 pm
Subject: Online Submission from Yvette Johnson (object)

I strongly object to this gas project. The environmental risk is too great. The risk to our ground water and water supplies is too great. The risk to the local community of Helensburgh, Otford and Stanwell Park is unacceptable.

This is the first paper work I have seen in relation to this project and I received it today 22nd February 2011, one day before the submissions close. The date on one of the forms was 2007. I object to the fact that there has been no consultation with the community until now.

If I wished to do what this company wants to do in the Water catchment area there would be outrage.

Methaine gas is more detrimental to the environment than carbon dioxide and this company is wanting to extract it near our community. It is counter productive to find other forms of energy which is more destructive to the environment than coal.

I do not wish this or any company to be putting chemicals into the ground near our water sources and ground water.

Name: Yvette Johnson

Address:
261 Princes Highway, Helensburgh NSW 2508

IP Address: davids77.lnk.telstra.net - 120.151.210.21

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Anne Kennedy <annkenn@bigpond.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 11/02/2011 10:06 am
Subject: Gas Project - Additional Borehole Modification - Assessment 11th February 2011 10:05:40

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Anne Kennedy
Email: annkenn@bigpond.com
Phone: 02 68223007
Address: YUMA, Billeroy Road Coonamble NSW 2829

From: Charmaine Knight <charmaineknight@iprimus.com.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 15/02/2011 8:32 pm
Subject: Online Submission from Charmaine Knight of Department of Human Services/ Concerned Member of the Community (object)

I am very concerned regarding the proposal and its devistation it will place on the environment and surrounding communities as well as the additional traffic with trucks on our roads which are not adequate to support this proposal.

Name: Charmaine Knight
Organisation: Department of Human Services/ Concerned Member of the Community

Address:
5 Longview Cres

Stanwell Tops NSW 2508

IP Address: 75.158-26-211.dynamic.dsl.syd.iprimus.net.au - 211.26.158.75

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Leila Kraushaar <kalindriel@hotmail.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 23/02/2011 4:22 pm
Subject: Online Submission from Leila Kraushaar (object)

I strongly object to the application being considered.

I am concerned that we have not completed sufficient research into coal seam gas mining to establish whether or not it is safe, and assess what implications it will have on the environment.

I believe that companies who are investing in this are likely to cut corners in order to maximise profits while opening up our communities to massive potential risks.

I do not want you to risk our environment and my family's health so that mining companies can deplete our natural resources and make substantial profits.

These resources belong to the people of NSW, and you owe it to all of us to ensure that the technology is safe before you approve it, and also to ensure that the people of NSW get appropriate rewards for their resources and for assuming the risks.

I do not think that there is any legitimate need to allow this kind of development. I do not believe that the general impression that the Government would like more money, justifies the potential risks and the depletion of resources. I think that it is a bad investment decision to proceed now, when these commodities may have significantly higher values in the future.

I am terrified of the potential environmental consequences of expansion of gas exploration and mining. Having seen a recent 4 corners program into the myriad of problems being faced by Queensland land owners, I believe this technology is either not ready to be used, or that companies are not bothering to utilise the technology safely.

The stakes are too high to risk environmental catastrophe for a relatively small short term gain.

Thankyou.

Name: Leila Kraushaar

Address:
88 Cowper Street

Port Kembla NSW 2505

IP Address: 146.43.70.115.static.exetel.com.au - 115.70.43.146

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Eleanor McPhee <emcphee@iinet.net.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 10/02/2011 3:59 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 10th February 2011 15:59:33

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Eleanor McPhee
Email: emcphee@iinet.net.au
Phone: (02) 90296144
Address: 157 Parkes Street Helensburgh 2508

From: Daniel Osborne <oz_250@hotmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 21/02/2011 1:47 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 21st February 2011 13:46:20

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Daniel Osborne
Email: oz_250@hotmail.com
Phone: 0414239333
Address: 93A The Crescent Helensburgh 2508

From: Anthony Phillips <aphillips2@vtown.com.au>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 14/02/2011 6:25 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 14th February 2011 18:25:26

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Anthony Phillips
Email: aphillips2@vtown.com.au
Phone: 0242941874
Address: 101 the crescent Helensburgh 2508

From: Susanna Rennie <susanna.rennie7@gmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 8/03/2011 2:51 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 8th March 2011 14:50:37

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

- The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.
- Extensive bushland clearing will be necessary around the well site
- Exploration approval will lead to applications for full scale extraction which should never be allowed in the area
- Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.
- The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.
- There is potential for the highly dangerous fraccing procedure to be used.

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same

principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Susanna Rennie
Email: susanna.rennie7@gmail.com
Phone: 0420220658
Address: 2515

From: Guy Reynolds <noopernipe@yahoo.com.au>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 7:30 pm
Subject: Online Submission from Guy Reynolds (object)

I object to the proposal on the following grounds;

-The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.

- Extensive bushland clearing will be necessary around the well site

- Exploration approval will lead to applications for full scale extraction which should never be allowed in the area

- Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.

- The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.

- There is potential for the highly dangerous fraccing procedure to be used.

Name: Guy Reynolds

Address:
74 Asquith St

Silverwater

NSW, 2128

IP Address: 124-169-17-82.dyn.iinet.net.au - 124.169.17.82

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Dr Paul Rustomji <pauls2@internode.on.net>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 22/02/2011 1:20 pm
Subject: Online Submission from Dr Paul Rustomji of Self (object)

To whom it may concern:

I wish to lodge an objection to this proposal on the basis that there is, in my opinion, considerable potential for negative impacts upon water quality from coal seam gas exploration in the Illawarra. This is of particular concern given the location of the exploration area being in a designated Special Area/water supply catchment area.

There is a growing body of evidence that coal seam gas extraction has significant negative water quality implications that cannot be entirely avoided even through compliance with "best management practices". this is partially due to the spatially distributed extraction methodology (ie. lots of bores spread across the landscape). There also exists the potential for detrimental impacts upon groundwater aquifers.

Apex Energy has indicated they wish to substantially expand their Coal Seam Gas extraction in southern NSW which I oppose on environmental grounds.

I would like to see this specific proposal rejected. I would further like to see all future coal seem gas exploration and extraction rejected before the potential negative impacts from coal seam gas extraction expand further beyond the limited footprint they already have.

Regards

Dr Paul Rustomji

34 Georges Road

Otford NSW 2508

Name: Dr Paul Rustomji
Organisation: Self

Address:
34 Georges Road

Otford NSW 2508

IP Address: vpnc-022.nsw.csiro.au - 130.155.80.22

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Simone Seeley <connors_mummy@live.com>
To: Clay Preshaw <clay.preshaw@planning.nsw.gov.au>
CC: <assessments@planning.nsw.gov.au>
Date: 15/02/2011 5:12 pm
Subject: Online Submission from Simone Seeley ()

The AI19 borehole is in a key Sydney water catchment and located in pristine bushland.

Extensive bushland clearing will be necessary around the well site

Exploration approval will lead to applications for full scale extraction which should never be allowed in the area

Coal seam gas extraction and exploration is dangerous. There are proven and serious risks including contamination of groundwater and water supplies, and leeching methane causing carbon emissions and human health impacts.

The area is home several endangered wildlife species and forms part of the essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal SCA.

There is potential for the highly dangerous fraccing procedure to be used.

Name: Simone Seeley

Address:
2/15 Oxford St

Cambridge Park NSW 2747

IP Address: d220-239-141-119.bla801.nsw.optusnet.com.au - 220.239.141.119

Submission for Job: #4449 Additional Borehole Modification
https://majorprojects.onhiive.com/index.pl?action=view_job&id=4449

Site: #877 Apex
https://majorprojects.onhiive.com/index.pl?action=view_site&id=877

From: Heather Seigh <hasleigh@gmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 27/02/2011 9:20 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 27th February 2011 21:19:34

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Heather Seigh
Email: hasleigh@gmail.com
Phone: 0242943626
Address: 1/6 Walker Street Helensburgh 2508

From: Greer Taylor <greer@greertaylor.net>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 13/02/2011 4:42 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 13th February 2011 16:42:02

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

fracking puts the environment at risk - it puts our water at risk we cannot go back once the damage has been done - it is not worth it. Please do net allow this to go ahead!

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Greer Taylor
Email: greer@greertaylor.net

Phone: 0409663373
Address: 72 Murray Park Rd Figtree 2525

From: "Timmerman, Julius MR" <Julius.Timmerman@defence.gov.au>
To: <plan_comment@planning.nsw.gov.au>
Date: 7/03/2011 11:19 am
Subject: Submission to Additional Borehole Modification (Apex Energy) - Exhibition Application Number: MP 07-0103-MOD 1 [SEC=UNCLASSIFIED]

UNCLASSIFIED

22 Wilson St
Lawson NSW 2783
7th March, 2011

Submission to Additional Borehole Modification (Apex Energy) -
Exhibition Application Number: MP 07-0103-MOD 1

We oppose this project. We oppose coal seam gas mining outright. It is dangerous to the environment and our health and must be stopped immediately.

* The AI19 borehole is in an important Sydney water catchment area and located in pristine bushland.
* Extensive bushland clearing will be necessary around the well site.
* Exploration approval will lead to applications for full scale extraction which should never be allowed in the area.
* Coal seam gas extraction and exploration are dangerous. There are proven and serious risks including contamination of groundwater and water supplies as well as the leaching of methane causing carbon emissions and human health impacts.
* The area is home to threatened species and forms part of an essential remaining wildlife corridor linking the National Parks to the Illawarra Escarpment and Dharawal State Conservation Area.
* There is potential for the highly dangerous fraccing procedure to be used.

Thank you.

Julius & Felicity Timmerman

IMPORTANT: This email remains the property of the Department of Defence and is subject to the jurisdiction of section 70 of the Crimes Act 1914. If you have received this email in error, you are requested to contact the sender and delete the email.

From: Jeremy Townend <jeremytownend@bigpond.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 13/02/2011 2:54 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 13th February 2011 14:54:27

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look forward to the Premier personally intervening to stop this project.

Yours faithfully,
Jeremy Townend
Email: jeremytownend@bigpond.com
Phone: 0247842979
Address: 2780

Major Projects
NSW Department of Planning

Peter Turner
9 The Ridge
Helensburgh
NSW 2508

Date: 23 February 2011
By email: clay.preshaw@planning.nsw.gov.au

Submission to the Assessment of the Apex Energy Illawarra Gas Project Additional Borehole Modification Application

To whom it may concern, thank you for the opportunity to comment on the Apex Energy application to expand its current Gas Exploration Project.

My understanding is that this project was approved by Director General Sam Haddad, following delegation by then Planning Minister Christina Kenealy in September 2009 under Part 3A of the NSW Environmental Planning & Assessment Act 1979. The original project application was made in 2007 and the delegation took place in March 2009.

Tony Kelly is now the NSW Planning Minister and he has recently acknowledged that "*...exploration for a coal mine doesn't really disturb the soil whereas an exploration for coal seam gas is basically the same as if you actually go ahead and get the gas out*."

Clearly the assessment of the exploration well proposal should include an assessment of that well then becoming a production well. It would be folly to approve a gas mining exploration well without assessing whether the project area was suitable for subsequent gas extraction by horizontal hydraulic fracturing or fracking. Apex Energy documents indicate that fracking would be used at the well for which approval is being sought, well AI19, should that well prove commercially viable. An application by a commercial enterprise for an exploration well in an area known to contain methane gas is in effect an application for production mining in that area. Further, as is now recognised in the US and UK, the full project envelope and its likely cumulative impacts have to be taken into consideration, and not just the individual well being considered for approval. A 'case by case' approach is inadequate, irresponsible and not in the public interest. A recent edition of the ABC Four Corners documentary series has highlighted the 'foot in the door' approach of gas mining companies.[1]

Following a report from the Department of Environmental Protection, the New York State Assembly in late last year called a halt to shale gas mining in New York's catchment areas, while the US Environmental Protection Agency under takes an investigation into the impacts and risks.[2] Similarly, a report from the Tyndall Centre at Manchester University has called for a halt on shale gas mining in the UK[3], and the UK Energy and Climate Change Committee has just begun an inquiry into shale gas mining in the UK.[4] Shale gas and coal seam gas (CSG) mining have in common the technique of horizontal hydraulic fracturing, or 'fracking'. Apex documents show that the company will use fracking at the A19 well and other wells should they prove commercially viable, as is anticipated. While the National Water Commission (NWC) has flagged its concerns and states "*Potential impacts of CSG*

developments, particularly the cumulative effects of multiple projects, are not well understood."[5], to date there has to date been no formal and independent federal or state investigation onto the impacts and hazards of fracking. The federal Water Minister Tony Burke has been given advice from his department warning the industry could damage water supplies and cause land subsidence.[6] A study of CSG mining in Queensland by J.P. Morgan suggested the environmental costs arising from the industry may undermine its viability.[7]

The Apex project variation application has been lodged in an atmosphere of increasing community awareness of the impacts and risks of coal seam gas mining. A moratorium on coal seam gas exploration and mining in the Illawarra, NSW and Australia should be put in place until an independent and comprehensive inquiry establishes the requirements and boundary conditions for environmentally safe and financially viable operations. The broader impacts of gas mining must also be considered, including the green-house gas footprint.

Impacts and Hazards

The impacts and hazards associated with CSG mining and fracking are increasing well known and are increasingly causing public concern and indeed alarm. This reflects the disturbing insights provided by the award winning film length documentaries Gaslands and Split Estate, and a high level of local media coverage of the issues. The impacts and hazards include:

- Aquifer contamination by fracking fluid additives and contaminants leached from strata, including naturally occurring radioactive materials. It's recently been reported[8] that only two of the more than twenty chemicals used for fracking in Australia have been assessed by the national industrial chemicals regulator. In NSW there is currently no regulation of fracking.
- Catchment contamination by so called produced water returned to the surface for storage or treatment. The amount of fluid returned varies between 15 and 80 percent of that injected.
- Drainage of surface waters and aquifers. Departmental advice to the federal government expresses concern that the Great Artesian Basin aquifers may not recover for 1000 years.[9]
- Sourcing, use and contamination of very large volumes of water that will subsequently require treatment. Each stage in a multi-stage hydraulic fracturing operation requires some 1 to 2 megalitres of water and the entire multi-stage fracturing operation for a single well requires around 9 to 29 megalitres of water. A single site might have six production wells, requiring between 54-174 megalitres of water for the first fracking operation. The fracking may later be repeated.
- High levels of truck traffic associated with water delivery and/or its removal for treatment.
- Rig noise in the vicinity of dwellings.
- Methane gas emissions from leaking wells, inadequate capping of abandoned wells, ground fissures, storage tanks and gas pipelines.

- Methane is a highly flammable gas and the Apex Energy gas wells are in a high conservation value area that will suffer increasing numbers of severe bush fires as a result of global warming.
- Methane is some 21 times more potent a green house gas than is carbon dioxide.

Illawarra Context

The new well is identified as AI19 and is located within the upper reaches of the Forest Gully catchment, and is within a Sydney Catchment Authority Special Area. The envelope of the Apex Energy project submitted in 2007 (07_0103) encompasses PEL 442 and PEL 444 and CCL703 though a joint venture agreement with Peabody Energy. Apex documents from 2010 relevant to and discussing the joint venture and its future confirm Apex aspirations to mine gas in CCL703, with the cooperation of joint venture partner Peabody.[10] These plans include pipelines and a gas fired power station near Darkes Forrest. CCL703 includes the Metropolitan mine expansion area approved in 2009, and his are lies under Woronora Dam and is catchment water ways, including the Waratah Rivulet. The now damaged Waratah Rivulet has in the past supplied about 29% of the water flow to Woronora dam.

The project for which Apex Energy is now seeking an expansion was approved in 2009, the same year that the Metropolitan Coal Project proposal to expand the Helensburgh coal mine was approved, again following delegation by then Planning Minster Keneally. That is, both projects were being assessed by the Department of Planning at much the same time. Although in the same area of the Illawarra, neither project assessment and approval makes reference to the other. It is now widely known that the Metropolitan Mine expansion proponents, Peabody Pacific, are joint venture partners in the Apex Energy project and that Peabody have sought to keep their association with the gas mining project hidden from public attention in order to avoid scrutiny and hindrance to their project application and mining activities in the area.[10][11] This included the temporary withdrawal from the Apex Gas exploration Project application of three well sites on areas operated by Peabody, specifically to avoid any " ... *possible disruption to the then Metropolitan mine Part3A (now approved)*" and " *Subsequently Peabody asked Apex if it would remove the three planned wells on CCL703 from its application so as not to provide added complication for the mine in its planning approval process.*" The intention being to reinstate those three wells at a later date. That the two projects were each considered for approval in isolation, knowing their relationship, reflects a serious lapse of responsibility on the part of the NSW Department of Planning.

The response from Apex[12] to the Sydney Morning Herald reporting of the Apex, Peabody and Department of Planning discussions, directly contradicts Apex documents, and so calls into question their credibility.

The Southern Coalfield Inquiry (SCI) and the 2009 NSW Planning Assessment Commission review of the Metropolitan Coal Project (MCP) make clear the damage caused by longwall mining in the Illawara, and this includes ruptured and drained watercourses, and the release of methane and carbon dioxide gases. The 2009 mine expansion review notes "*The environmental consequences for watercourses impacted by subsidence can be severe. There*

is abundant evidence of this in the reaches of the Waratah Rivulet that have been undermined by previous longwalls." The Waratah Rivulet is within CCL703, where Apex Energy aspires to mine gas, including the use of fracking.

Gases released by mining activity travel upwards through any cracks in the strata and may escape from surface fissures. Where the cracks emerge under surface waters, gas bubbles can be seen. The Southern Coalfield Inquiry documents include photographs of gas bubbling out of the Cataract and St Georges rivers.

The southern coal fields suffer both conventional and non-conventional subsidence, and the MCP review makes it clear that non-conventional subsidence is poorly understood and cannot be reliably modelled or predicted. The expansion of the Metropolitan mine is therefore an experiment being conducted in an important catchment area with little real understanding of the acknowledged risks. The introduction of gas mining in the same region will compound the manifest risks associated with longwall mining, and an assessment of a gas mining project must surely include any compounding or multiplier effect arising from coal mining in that same region.

Not only must the full project envelope be taken into consideration when assessing the Apex project modification application, the full context of the project must be taken into consideration and this includes coal mining operations and impacts in the area.

The MCP review notes "*The potential loss of catchment yield was a strongly contested issue that could not be resolved beyond doubt on the information available. However, the Panel's view is that the risk of any significant loss is very low unless a major geological discontinuity is encountered during mining that provides a direct hydraulic connection between the surface and the mine workings. This is considered unlikely*." The introduction of fracking in the same area may well provide a sufficient geological discontinuity. The current low level of the Woronora Dam has resulted in speculation of mining related damage[13], and the Metropolitan Mine is known to contain high volumes of water. Fracking in the same area compounds the risks to the Illawarra water catchment.

Green House Gas Emisisons

The recently released Tyndall report[3] on shale gas mining in the UK observes "*If carbon emissions are to reduce in line with the Copenhagen Accord's commitment to 2°C, urgent decarbonisation of electricity supply is required*." Investment in gas fired power stations, with a likely working lifetime of more than 20 years, will delay the introduction of renewable energy sources and so hinder or oppose rapid reductions in GHG emissions. Gas combustion can only be a low carbon energy source if coupled with carbon capture and storage technology (CCS) and there is little or no prospect of that being deployed on the scale required in the short to medium term, if at all. The Tyndall report points out that in an expanding global economy gas fired power stations are more likely to augment than replace coal fired power stations. It's also worth noting that the Federal Governments Cleaner Future for Power Stations programme does not include gas fired power stations.

While electricity generation from gas combustion produces around half as much carbon dioxide as does coal combustion, recent preliminary full life cycle studies suggest any potential benefit is significantly undermined, and perhaps negated, by energy consumption for well operations, truck movements, produced water treatment, and the leakage of methane gas from well sites, surface fissures, containers and pipelines. Referring to the same study, the World Coal Association recently made the same observation in a submission to the shale gas inquiry initiated by the UK Energy and Climate Change Committee and now underway.[14]

Apex plans recognise that CSG and goaf gas in the new Metropolitan Mine workings have high levels of carbon dioxide. They would mix this gas with gas having higher methane content from other Apex mining sources. Doing so would add to the green house gas burden of the Apex gas.

NSW Regulation of Coal Seam Gas Mining

Coal seam gas mining and fracking are essentially unregulated in NSW. There is a restriction on well placement; CSG companies cannot drill a well closer within 200m of homes or within 50m of orchards, vineyards, rivers or streams. However, this does not include horizontal drilling which may extend several hundred meters from the central well. While Premier Keneally proclaimed “"*tough new rules for coal seam gas exploration*" in December 2010, in reality they are largely ineffectual and change little:

- The requirement for the NSW Department of Industry and Investment to only "take into consideration" Department of Energy Climate Change and Water recommendations is much the same as was previously required of the DoP and is entirely inadequate. Given the risks, DECCW should have a matching approval role.
- There is no significant change to community notification and consultation processes.
- There is no requirement for documents to be made public, such as new work plans and the Review of Environmental Factors documents. Fundamentally the approval process remains opaque.
- There is no commitment to ban the use of BTEX fracking fluid additives; these additives have been banned in Queensland.
- There is no commitment to develop legislation governing CSG mining.
- There is no commitment to halt CSG mining while a cumulative environmental impact assessment is made for each of the effected regions in NSW.

Concluding Remarks

The Apex Project modification application is not just an application for an additional exploration well in the northern Illawarra catchment area. It’s effectively an application for confirmation of the implicit determination made in the original Apex project approval, that the northern Illawarra is a suitable location for full production coal seam gas mining essentially collocated and undertaken concurrently with longwall coal mining. Apex documents make this clear, and a ‘case by case’ assessment is in adequate as experience in the US and now Queensland has demonstrated.

Previous reports and reviews have highlighted the lack of knowledge and understanding of the risks associated with these activities. Past approvals have been in effect an expression of hope that everything will turn out 'OK'. The consequences of such hope being misplaced are dire. There must be a moratorium on CSG mining related activity in the Illawarra until the risks are better understood. This assessment must include the risks to water supply and the emission of green house gases arising from all mining activity in the region – including GHG arising from domestic combustion and the combustion of exported coal and gas.

Peter Turner.

References

1. http://www.abc.net.au/4corners/special_eds/20110221/gas/default.htm

2. (a) http://www.nyc.gov/html/dep/html/press_releases/09-15pr.shtml (b) http://www.reuters.com/article/2010/08/04/us-newyork-gas-idUSTRE67358R20100804?type=GCA-GreenBusiness (c) http://email.sheldon-silver.com/mail/util.cfm?gpiv=2100066227.42773.0&gen=1

3. http://www.tyndall.ac.uk/shalegasreport

4. (a) http://www.parliament.uk/business/committees/committees-a-z/commons-select/energy-and-climate-change-committee/news/sg1/ (b) http://www.publications.parliament.uk/pa/cm201011/cmselect/cmenergy/writev/shale/sg02.htm

5. http://www.nwc.gov.au/www/html/2959-coal-seam-gas.asp?intSiteID=1

6. http://www.abc.net.au/news/stories/2010/11/24/3075262.htm

7. http://www.smh.com.au/business/coal-seam-gas-a-risk-jpmorgan-20101215-18xzw.html

8. http://ntn.org.au/2011/02/21/call-for-moratorium-as-report-finds-fracking-chemicals-have-never-been-tested-for-safety/

9. http://qcl.farmonline.com.au/news/state/agribusiness-and-general/political/csg-plans-approved-despite-red-flag/2005328.aspx

10. http://bit.ly/TEC_Apex_Met_venture_paper

11. http://www.smh.com.au/environment/coverup-secret-plans-to-mine-gas-20100922-15n0p.html

12. http://www.apexenergy.com.au/recent-news/apex-energy-has-responded-to-the-sydney-morning-herald-s-recent-articles-in-a-letter-to-the-editor-the-letter-can-be-sean-at-the-following-link/

13. (a) http://www.dailytelegraph.com.au/property/underground-mine-cracks-drain-dam-water/story-e6freztr-1225996743162 (b) http://www.planning.nsw.gov.au/DesktopModules/MediaCentre/getdocument.aspx?mid=639

14. http://www.publications.parliament.uk/pa/cm201011/cmselect/cmenergy/writev/shale/sg02.htm

From: Denis Wilson <peonyden@gmail.com>
To: Director General <plan_comment@planning.nsw.gov.au>
Date: 12/02/2011 12:56 pm
Subject: Gas Project - Additional Borehole Modification - Assessment 12th February 2011 12:56:23

Mining and Industry Projects
Department of Planning
GPO Box 39
Sydney NSW 2001

Fax: (02) 9228 6466
Email: plan_comment@planning.nsw.gov.au

Subject: Gas Project - Additional Borehole Modification - Assessment

Reference: MP.07 0103 - MOD 1

Dear Director General,

I oppose Apex\'s proposal.
It will risk contaminating the groundwater - an integral part of the water supply, which is supposedly being protected by the SCA.
It is not.
Denis Wilson
Chairman
Australian Water Campaigners

I call on Department of Planning to reject this amendment to the previous approval granted to Apex Energy NL for the purpose of additional exploration and gas monitoring borehole with associated infrastructure and site access.

I call on Department of Planning to immediately stop all Part3A applications.

I call on Department of Planning to include ALL previous submissions opposing inappropriate development in this area including:
- 1994 Helensburgh Commission of Inquiry;
- various rounds of submissions from 1995 to 2009 to Wollongong City Council on the rezoning of 7d lands at Helensburgh, Otford and Stanwell Park;
- over 3,00 submissions against the 2010 Willana Report; and
- the latest submissions in response to the Wollongong City Council "Preliminary Review Report" which total over 18,500 submissions.

Which total well over 45,000 submissions on these environmentally sensitive lands.
I also refer Department of Planning to Premier Keneally's decision to stop the Tillegra Dam in the face of 2,800 submissions against that project.

I quote "The project is not in the public interest" and "...the precautionary principle should be invoked..." and "...uncertainty about the impacts of the project..." and "...is of the view that the proposal is not in the public interest and should be refused..."

If 2,800 submissions can mobilize a Premier to stop a dam, Department of Planning must apply the same principles used by Premier Keneally in the Tillegra Dam and STOP this project entirely - construction has not started on Sydney Catchment Authority lands and NOW is the time to make sure it NEVER happens.

A two week period for submissions on such an important issue is clearly not in the public interest. I look

forward to the Premier personally intervening to stop this project.

Yours faithfully,
Denis Wilson
Email: peonyden@gmail.com
Phone: 02 4885 2725
Address: PO Box 3158 Robertson, NSW 2577

Apex Additional Borehole Modification

Application MP 07-0103-MOD 1 January 2011

Comments by Dr Ann Young

Qualifications

I am a geoscientist with 40 years experience, and retired as Senior Lecturer from the University of Wollongong in 2002. I am the author of academic books on sandstone landforms, soils and environmental management. I have contributed as a member of the public to the inquiries into the Southern Coalfield and to major project assessments in the region. I am currently a member of the CCC for Illawarra Coal's Dendrobium mine.

Objection

I object to the approval of this proposal on several grounds:

- Apex NL has not demonstrated its ability to deliver acceptable environmental outcomes for the project 07-0103 already approved
- there is no provision for community scrutiny of the existing project and thus no community confidence that an environmentally valued area is being protected
- the environmental impacts, especially on swamps and under extreme rainfalls, may be significant
- approval further encourages the company to expect to develop resources in a highly sensitive area (as shown by its listing under SCA and National Parks & Wildlife Service) and indeed in an area from which another company has just withdrawn following public outcry.

Performance of already approved drilling operations

The Project 07-0103 approved in September 2009 envisaged a 3-year project, base on an 11 week period for each of 15 boreholes. The Approval for the Project required, among other matters, a water management plan, an erosion and sediment control plan, and a vegetation clearing and rehabilitation plan. Also, within one month of the approval, the environmental monitoring plans and a summary of monitoring results of the project were to be publicly available on the company's website. The website http://www.apexenergy.com.au/illawarra-region/ describes the assets in PEL 444 and 442 but has no information about any activities. I understand that the company submitted an AEMR in September 2010 stating that no fieldwork had taken place. Presumably this is still the case.

Necessary conditions on approval

In my submission on the previous Project, I asked for several safeguards, as repeated below.

> I ask that any approval of this project include conditions as follows:
>
> - a detailed and workable rehabilitation plan be established for each site
> - **drilling at a site should not commence before the previous site has been cleaned up, re-shaped where necessary, mulched or otherwise protected from rainfall and wind erosion, and seeded or planted to begin re-vegetation.**
> - **extracted groundwater should be assessed for volume, quality and likely geological stratum source**

- **the proposed sites be re-assessed to prioritise them in order of likely significance so that if possible, fewer sites will be drilled**
- **a clear coordinated strategy for environmental monitoring by relevant authorities be imposed on the company, with approval for continuing operation dependent on satisfactory environmental management. Ideally, a community consultative committee to involve other stakeholders should be part of this strategy.**

To my mind, these were minimum and reasonable safeguards and I was disappointed that the Minister did not incorporate any of them into the previous Approval, other than that for a rehabilitation plan. But the reality is that at present, we have NO information about how well the company can protect what is a highly valued environment. Yet the proposed A119 is in a SCA Special Area, an area from which the general public is rightly excluded and subject to heavy fines if found trespassing. There is therefore no opportunity for the public to view the operation or to become aware if there are issues of concern.

Proximity to an upland swamp

The location of the proposed borehole A119 is constrained by the old workings and geological anomalies below the site, and its proximity to the upland swamp has been taken into account. However avoiding damage to the swamp depends on the runoff controls and especially any stored subsurface water being contained. The controls may well be in accordance with set standards but I reiterate and emphasise the concerns I expressed in respect to the original project and I quote:

> p 2. **Although the drill sites are mainly near or on existing tracks, and the total area to be cleared is not large, this does not mean that environmental impacts are negligible**. As the Google images on pp 20-26 show clearly, only Al14, Al16 and Al18 are on wooded ridges. All other sites are beside upland swamps, and a 50-60m radius of disturbance as indicated on p31 would encroach into the swamps. This means that there would be a significant increase in the existing disturbance, and the additional impacts of compaction and channelled runoff across the surface. Also, **while many of the sites lie beside existing fire trails, these trails are not heavy duty access roads. To give the drill rigs and other large vehicles access along them is likely to cause significant widening and disturbance**, especially for the work-over rigs (p40). This project will NOT simply operate without any noticeable change in the local environment. Similarly, the comment that these corridors would be used for subsurface reticulation of any developed wells (p9) glosses over the impacts of the traffic needed to dig trenches, lay pipes etc. And as is shown by Figure 3.5 (p32) and the details of sumps etc on p 56, **there will be drains, bunds and levelled areas constructed, not just a small area 'cleared'.**
>
> p32. There is too little detail here to judge the impacts of groundwater transfer to the surface. For example, there is no indication of how much groundwater make is expected. This is

not a small issue. **The groundwater is expected to be contaminated, as detailed on p52. If this is to be removed by tanker, where is it to be sent? If extreme rainfalls cause an overflow, what will the impacts on the nearby environment be?**

The sensitivity of the area

The proposed borehole is in an environmentally sensitive area. The location maps (figures 1 and 2 of the main document) give no indication of this. Yet in the Appendix dealing with flora and fauna (p 33), the location is - properly! - shown as very close to the Dharawal State Recreation Area and the major swamps of that protected area such as Iluka and Dahlia Swamps. Another company has just withdrawn application for longwall mining under these areas, and I appreciate that Apex envisages no significant subsidence if full-scale gas extraction were to occur in the future.

BUT the problem is that extraction of any gas reserves proven from the area would involve very significant surface disruption. How closely spaced would extraction boreholes be? How much surface disruption would there be also from connecting pipelines to transport the gas, and from access roads for maintenance vehicles and tankers to remove contaminated water from bunds? Even if the pipes are laid in trenches, the trenches need to be cut and then revegetated. Would there need to be power lines to each drillhole/ pumping point? Where would the material taken from multiple boreholes be disposed of? The approved exploration project will disturb 9 ha in total, of which about half is undisturbed native vegetation. And even the 'disturbed' areas are largely re-grown from previous disturbance. Obviously a full-scale development would require many holes in undisturbed native vegetation. **The bushland in much of the area is pristine because it has been set aside for water catchment. Are we now to undo this good by permitting extensive surface disruption?**

It is not good enough to simply argue that any such considerations can be left to the future when another major project application would be necessary. The reality is that companies, having received permission to explore and to prove up reserves, expect to be given permission to develop those resources. **The present application values this one borehole as having a capital investment value of $1 million, and the original project was valued at $7.4 million. The company must be carrying out the project in clear expectation of approval to develop**.

Conclusion

I did not object to the previous proposal. However after more time to learn about the process of coal seam gas mining, better appreciation of the environmental consequences of full-scale development and disappointment that the conditions in the approval given gave no community scrutiny, I certainly object to this application being approved.

Dr Ann Young
4 Roxburgh Ave
Thirroul NSW 2515

FirstName	LastName	City	State	Postcode	Individual Additional Comments
Donna	Russell	Lilyfield	NSW	2040	I want to look to the future and follow safe methods - not make environmental messes that have no vision. I want to leave my grandchildren a healthy future not make $$$ for mining companies.
Heidi	Ross	Lamington	Qld	4285	We have major concerns about the need to protect Australia's ecological communities. Connectivity and habitat preservation has always been the highest priority - even to Government. For this reason we question the necessity of the above development. Australia has extensive supplies of csg - do we really need to put this controversial and as yet relatively untested practices into valuable countryside. It is not as if there are not other options.
Greg	Thompson	Smiths Lake	nsw	2428	
Leah	Hobbs	Australia	2474		
monika	neff				
Clem	Stanyon	Ivanhoe	VIC	3079	Seriously, are you insane - drilling in a drinking water catchment? Put your effort into renewable energy, no matter how much the Gas & Coal lobbies are paying you to do otherwise.
Karen	Hanegan				
Claudia	Cortizo				Please consider the long term implications of CSG mining in this region. As more pure water is contaminated the more it is essential to preserve it. He high risk of contamination is not worth the value of uncontaminated water. This industry is self regulated and there are questions regarding radiation, air pollution and endangered wildlife that MUST be addressed! Thank you
Minnie	Watts	Tempe	Arizona	85282	
Jackie	Juno	UK	TQ13 9AQ		
Justine	Seymour				
Karen	Connellan	Select	Australia		

Alison	Short	Stanwell Park	NSW	2508	As an Arborist currently studing Land and Conservation, I believe the the saline affected soils would be devastating to the environment. The native flora in these areas will not tolerate the introduced saline and WILL DIE,the territorial fauna and especially the endangered wildlife are dependant on the soil micros as well as the flora for survival, not to add the introduction of salt tolerant weed species that already threaten our bushland. This is really disturbing that this could be allowed to happen in our own back yards and plead that our last words wont be "I told you so". Alison Short
Clare	Peach	Barden Ridge	NSW	2234	
Bronwen	miller	vic	australia		
Andrew	Murray	Woonona	NSW		
Vincent	Bicego	Australia	2518		
Nicola	Trulock	Kurrajong Heights	NSW	2758	
Kerrie	Delfino	NSW	Australia		
Kerrie	Delfino	Helensburgh	NSW	2508	
Michael	Gill	Moruya Heads	N.S.W	2537	
Mary	Phillips	Helensburgh	NSW	2508	
Lynda	Staker	Mackay	Queensland	4740	Put the lives of people and the welfare of the environment before Gas company's greed.
Radhiah	Chowdhury	2560			
Richard	Jones	Thirroul	NSW	2515	PLEASE STOP!
Sharon	Lewis	Thirroul	NSW	2515	
Jonathan	Hull				
Lisa	Nolan	Londonderry	NSW	2753	Please protect our precious country and say no to fracking
Helen	Storey	Chillingham	NSW	2484	
Michael	Smith				
David	Tait				
Jessica	Macleod	Balmain	NSW	2041	
Kate	Peters	qld	Australia		
Bronwyn	Williams				
johnny	mitrevski				

Lisa Leila	Vassilakoglou	Austinmer	NSW	2515	
Ronald	Brear	NSW	Australia		
anna	chevalier	Thirroul	NSW	2515	I have three young children. Please don't ruin their health and futures by using this method of gas extraction.
alexi	polden				
Hayley	Schultz	Wollongong	NSW	2500	
Adam	Ziesing	Leichhardt	New South Wales	2040	
Kaz	Lederer	STANWELL PARK	NSW	2508	As a mother of two primary school children, I took my kids to the STOP-CSG-Illawarra rally on 15-May. The kids listened and drew pictures of evil coal seem gas miners and drills turning the water BLACK. That image was apparent from the eyes of babes, yet the Gov't fails to see this. Wake up and smell the roses (while we still have them).
James	Dawson				
Alex	Hargraves				
bruce	dellit	Austinmer	nsw	2515	
Alan	Gare	NSW	Australia		
Lindsay	Tuggle	Austinmer	NSW	2515	
trevor	hudson	bellambi	nsw	2518	unbelievably stupid
Jen	Pope	Coledale	NSW	2515	
Peter	Perkins	Macquarie Fields	NSW	2564	Stick your bore hole up your "b" hole. This struggle is about peoples rights over corporate greed. Legally they may have the right but morally they have no rights at all. Our morality on this issue must triumph over the complete insane greed of the gas miners.
Ann	Brown	Mt Ousley	NSW	2519	We need clean water in the future and sustainable use of our very special environment.
Jasper	Kitschke	Thirroul	NSW	2515	
Vera	Rupa				
jenny	Davis	Austinmer	nsw	2515	
Sarah	Lambert	Woonona	NSW	2517	

Andy	Hrelja	2233			To say I am appalled at the thought of "fracing" being allowed in the Sydney catchment is an understatement. My brother is involved in the oil industry and is intimately familiar with "fracing". He was shocked when I mentioned to him that this was being considered within the Sydney water catchment area. Add to this the fact that us "normal" folk i.e. not the ones standing to make billions in profit from this exercise and therefore able to "lobby" (grease palms) strongly, can't even set foot on this land without facing a huge fine is a real slap in the face. It just shows were government priorities lay. All I can hope is that as this disgusting proposal was okayed by the previous (corrupt and totally incompetent) State Government, the new Government will see beyond the short term $ signs and look longer term to the true impact such an endeavour will have on the environment and communities surrounding this area. And all going well, reason will prevail. Please, stop these areas being raped by a select few for a few more $. And in case
Andy	Hrelja	2233			To say I am appalled at the thought of "fracing" being allowed in the Sydney catchment is an understatement. My brother is involved in the oil industry and is intimately familiar with "fracing". He was shocked when I mentioned to him that this was being considered within the Sydney water catchment area. Add to this the fact that us "normal" folk i.e. not the ones standing to make billions in profit from this exercise and therefore able to "lobby" (grease palms) strongly, can't even set foot on this land without facing a huge fine is a real slap in the face. It just shows were government priorities lay. All I can hope is that as this disgusting proposal was okayed by the previous (corrupt and totally incompetent) State Government, the new Government will see beyond the short term $ signs and look longer term to the true impact such an endeavour will have on the environment and communities surrounding this area. And all going well, reason will prevail. Please, stop these areas being raped by a select few for a few more $. And in case
Janet	Schofield	NSW	Australia		

Clem	McMurray	Lindfield	NSW	2070	If Australia becomes a reflection of what has now happened in the US as far as fracking is concernedd, it will be the beginning of leverage which will see farmers leaving their land. Apart from the health risks which at this stage appear to be overlooked, it appears to be a short route to making a fast buck for the mining companies and the tax office. Regards.....Clem McMurray
Keith	Horton				
Douglas	Wyght	Stanwell Tops	NSW	2508	This is an unnecessary, short sighted, and deeply foolish threat to our water supply (and health) especially given NSW has invested in alternate water supplies due to shortages. It beggars belief that someone can present such a proposal given we can live without CSG but cannot live without water. Any attempt to suggest that alternate water will be supplied if contamination occurs should be a blunt admission that the risk is unacceptable.
Peter	Erdmann	Austinmer	NSW	2515	
davi and frances	lyon	wollongong	NSW	2515	
julie	small	Australia	2515		
Chris	Wilson	2515			
Megan	Rowlatt	Aust	2500		
Lisa	Byleveld	Thirroul	NSW		
karen	Dinsdale	DARKES FOREST	NSW	2508	We as residents , depsite what Apex claim , do NOT want this to EVER happen , nor should it even have been considered in such a proteced area.
Melissa	Brown	NSW	2515		
Lorraine	Dowler				
Cheryl	Pearson	Helensburgh	N S W	2508	Are you that hungry for energy that you are prepared to risk the lives of our future children and wildlife species and all who live within the areas of this gas mining???? Be prepared for the consequences in years to come (you will reap what you sow). DON"T DESTROY WHAT IS LEFT OF OUR PRISTINE WATERS AND PROTECTED LANDS PLEASE!!!!THINK AGAIN DON"T GIVE INTO THE ALMIGHTY DOLLAR!!!!
Leonard	Conrad				

Thomas	Gaudry	NSW	Australia		As a 17 year old individual living in the Illawarra, I am EXTREMELY concerned with the proposal of coal seam gas mining in the Illawarra region and it's adverse effects on the environment, particularly the contamination and pollution of air and major water supplies. I believe more viable, environmentally sustainable options are available without compromising the safety and wellbeing of the biophysical environments.
suzi	krawczyk	budgong	NSW	2540	Please stop poisoning the environment and jeopardising farming.
Chris	Barker	Thirroul	NSW	2515	
Karen	Fullard				
Fiona	Jarrett	Helensburgh	NSW	2508	NO MORE..... YOU ARE IDIOTS TO LET THIS HAPPEN!
Andrew	Stanger				
Jodie	Russell	Thirroul	NSW	2515	
Scott	Russell	Thirroul	NSW	2515	
Sal	Sanzone				
Wendy	Roche	Stanwell Park	NSW	2508	I strongly object to Apex Energy 's ´┐¢plans for an additional coal seam gas borehole in the Illawarra. After watching the documentary Gasland this has opened my eyes to the dangers of this practice. There must be a safer way.
Clair	Langford	Keiraville	NSW	2500	I am most concerned about the potential health effects as well as loss of water supply
Clair	Langford	Keiraville	NSW	2500	I am most concerned about the potential health effects as well as loss of water supply
Hall	Murray	NSW	Australia		
Megan	Gillmore	Cordeaux heights	N.S.W.	2526	
Maaike	Van Herp	Australia			
Carol	Watson	Figtree	NSW	2525	
patricia	kahler	Basin View	nsw	2540	Eventually we will need to move away from practises such as this, for the health of ourselves and that of our natural environment. Please help to make that change now! Please Protect Our Natural Environment That Sustains us all!
Mary	Barron	coledale	nsw	2515	This action is utterly unacceptable. As a local land owner, who has not been consulted about the destruction of my local community, I would like to emphasise my complete disapproval for any action to be taken on the coal seam gas works.
Katrina	Marshall	2515			

Meredith	Stanton	Australia	2453		Coal seam gas exploration and extraction, like coal mining, is driven by an energy market and fails to consider the long term impacts on our environment, rural and urban communities. This ad hoc approval process is unethical and only serves the mining companies while failing to consult communities and environmental degradation.
Jon	La Forgia	West Crouden	S.A.	5008	Pollution of ground water is not an option.
Carolyne	Wildsoet	Earlville	Queensland	4870	
Elizabeth	Livanos	NSW	Australia	2291	
Shaylen	Snarski				STOP DESTROYING OUR EARTH!!!!!!!!!! IT IS NOTTTT AN OPTION!!!!!!!!!! But all you all care about is money, what will become of you, your name and your family when you live and die for greed..... You are either the problem or the solution, you CANNOT be both, your choice which way you want to spend your life, unfortunately, others have to deal and live with YOUR choices, including those closest to you, and their kids long after you've gone
Michael	Lightfoot	ACT	2615		
Lisa	Calvert	Australia	2119		
Karen	Connellan	Tasmania	Australia		
Brian	Mason	NSW	Australia		
Michele	Calvert-Branch	Mt Tomah	NSW	2758	
Benjamin	Long	Thirroul	NSW	2515	
Jennifer	Kokoska	Corrimal	NSW	2518	Please take haste. This is an urgent matter. Please don't allow exporation take place putting our bushlands, wildlife, water talbes, and ecosystem at risk. We need them all to survive! Be on the winning side for everyone! Thank you!

Robert	Attard	HELENSBURGH	NSW	2508	Hi,My name is Robert and I live in the Illawarra region. I have some concerns regarding the possibility of Gas drilling / Fracking in the local area. My wife is just about to have our first baby and I am seriously concerned with the technology used in this process. I would like to say that I am not an expert or really understand what type of drilling is currently being used. However, from what I am reading, I have major concerns. I have worked in research and development of advanced polymers for 6 years of my life and I am currently a senior manager of a 22 Billion dollar company in Sydney and I have bought a house in Helensburgh to enjoy the local natural environment. I would like to understand direct from Apex on how they are managing the environmental risks. I would like to understand more about the technology Apex are using and what studies if any they have completed on the impact on drinking water and so forth. I have read the fracking process is not going to be used from Apex website; if this is the case, what process will be used and what is the impact to the environment. Where are the reports so I can be informed?Kind Re
robert	banting	ryde	New South Wales	2112	Given the highly toxic nature of the chemicals used in fraccing, the idea of using them in a catchment area can only be described as insane. This could wind up poisoning all the residents of Sydney and surrounding areas. Complete and utter greed motivated insanity.
Rob	A				from the apexenergy.com.au website. Apex is an Australian coal seam gas (CSG) and coal mine gas (CMG) exploration company with a bright future in cleaner energy. Its is NOT CLEAN Energy gas is not clean. We are not stupid - This is not the future of the planet. Please take action.
Kerry	Hourigan	2518			I don't support any mining in the Syney Water Catchment area. I consider 'fraccing' to be far to hazardous and risky and it should not be used for any reason anywhere.
Wendy	Shaw	Casuarina	NSW	2487	Although I don't live in Sydney I love to visit often. As people can get cheap airfares to visit often, this action could ruin not only the water quality and environment,but tourism also. Sydney is really fortunate to have so many national parks and waterways on its doorstep. It would be crazy to risk this for possible short term gain - and is it gain for a foreign owned company that does not care about the wonderful attributes that Sydney has?

michael	crighton	austinmer	nsw	2515	Putting our water supply at any risk for principally private and foreign profit is madness.
Tim	Gooding	Coalcliff	NSW	2508	Please leave the Illawarra Escarpment alone!
Lisa	Martin	Wollongong	NSW	2500	
Ruth	Rogers	Colorado	United States		
Nathan	Stratton	Wollongong	NSW	2500	
zio	ledeux	erskineville	nsw	2043	stop this rot. it makes no sense. will the gas companies clean up after they have destroyed the land? i think not. and what about t he water catchment areas? csg is wrong for so many reasons!
Lindy	Howard	Ashfield	NSW		Drinking water protection is surely a priority in this country
Stephen	Curtain	Robertson	NSW	Australia	I completely object to this project. I recently watched the 'Gasland' doco and I am very disturbed about this unsustainable energy source and its devastating impact on human and environmental health. I look forward to a response to how you can 100% assure that there is NO unsafe impact what so ever with this practice. Regards, Stephen
Lynda	Bailey				please stop destroying this land
Sam	Short				Due to the information I have read and seen on tv I oppose the addition of this form of mining. It seems to be a way of continuing our reliance on fossil fuels instead of finding better more efficient forms of renewable options.
Brian	Hardaker				
john	corker	Thirroul	nsw		I am very concerned about the lack of knowledge about the risk to our underground acquifers caused by CSG fracking. There is plenty of evidence of damage in other parts of Australia and it's not repairable. We are talking about our long term water supplies. The whole process should be stopped.
Greg	Rogers	Bangor	NSW	Sutherland	There has to be a better way to provide energy.
lorraine	parker				

malika	maddox	NSW	Australia	2515	Please do not build any boreholes!!!! Especially here on the unstable escarpment and precious water catchment areas. Not just here. Don't build them anywhere!! What you are proposing is toxic and potentially life threatening. It is unforgivably, morally, irrevocably evil, for the cold hard sake of a cheap fast dollar. Once the water ways are polluted, how much money will it cost, if at all possible, to rectify or replace?Shame on you for even considering this type of energy, when there are much better alternatives.Would you give your children contaminated water to drink?Watch Gasland.It's on DVD. Can you be unbiased or are your values compromised?
Chris	Edmond	Towradgi	NSW	2518	This practice must be stopped I ask the question, how is Apex Energy allowed to carry out this destructive exploration which threatens the environment as well as the risk to our drinking water in Sydney Water Catchment when I get a $300 fine for riding my bicycle on a management trail in the Sydney Water Catchment area where I ride to appreciate the pristine woodland forest
Karen	Kencalo	Yanderra	NSW	2574	No more coal seam gas bore holes
Peter	Kencalo	Yanderra	NSW	2574	No more coal seam gas bore holes
Luke	Kencalo	Yanderra	NSW	2574	No more coal seam gas bore holes
Alex	Kencalo	Yanderra	NSW	2574	No more coal seam gas bore holes
Emerson	Kencalo	Yanderra	NSW	2574	No more coal seam gas bore holes
Fiona	Henson				I can't imagine the amount of money involved in coal seam gas, but as I always say, "Greed is going to finish off this planet."
Sylvain	Goumand	NSW	Australia	2508	
Sylvain	Goumand	NSW	Australia	2508	
Andrea	Edlinger	NSW	Australia	2482	Australias environment is very fragile and there are very few Conservation areas left. I am a bush regenerator and student of environmental science. The damage to this pristine area is a crime not only against the wildlife and flora, but also against the people of Australia.We have a responsibility towards present and future generations.Don't let us down !!!!
Justin	McKinnon	Australia	2517		The lack of environmental assessment and apparent recklessness of CSG exploration and extraction is of great concern. Increasingly our community is feeling disempowered and threatened by this as it expands under our noses. threatening our water supply in an arid country?! Its ludacris. Act now.

Nathanial	Harris	Austinmer	NSW	Australia	In the current state of global warming and climate change coupled with the technological ability to produce recyclable clean energies such as solar, wind, hydro and even geo-thermal energy, why would an intelligent human being implement a plan to dig down into the Earth (in beautiful areas further), risking further pollution and damage to it? Yes, Natural gas produces far lower amounts of sulfur dioxide and nitrous oxides than any other hydrocarbon fuel and Carbon dioxide produced is 117,000 ppm vs 208,000 for burning coal. Carbon monoxide produced is 40 ppm vs 208 for burning coal. But this is merely the lesser of two evils. It seems that this is a 'quick fix' to keep the 'sheep' satisfied and warm with gas and to maintain our high quality of life. But really, if funds are used now to produce these clean, recyclable green energies, yes there will be an outcry by many present-hedonistic liberal conservatives, about economic instability, but the future of our planet will be placed in less jeopardy than the current one we are intending to leave to our next
Michael	Hanney	Coledale	NSW	Australia	When are we going to make decisions for the right reasons, namely the long-term sustainability of the environment and biodiversity? This technology can be even more damaging to the environment then current fossil fuel technologies. This is a step backwards and not forwards. It is shameful.
Matthew	Trezona	Otford	NSW	Australia	DONT DESTROY OUR NATIONAL PARKS
gina	lopez	petersham	Select State	2049	Dear Ministers, I object to Apex Energy 's plans for an additional coal seam gas borehole - AI19 on Sydney Catchment Authority, drinking water catchment and pristine bushland
rebecca	stavrou	2044			I am at a loss at to why your mining companies feel the need to do further damage instead of spending your budget on research into cleaner and more sustainable energy sources.
Uta	Fischer				I object to Apex Energy 's plans for an additional coal seam gas borehole - AI19 on Sydney Catchment Authority, drinking water catchment and pristine bushland This and the other 15 Apex boreholes should never have been approved for exploration.
Karen	McDougall	Otford	NSW	2508	Save the enviroment for future generations

jacinta	rheinberger	thirroul	nsw	2515	Please go away, we don't want this shit in the illawarra or anywere for that matter. I am a conservationist and we need to preserve what little bushland that the planet has. the animals don't need to suffer due to your greed and we don't want the risk of our water being polluted and our air having toxic fumes floating around, the evaporation ponds which evaporate the toxic waste into our atmosphere which then in turn spreads the toxic water around when it rains polluting massive amounts of freshwater. there are other safer alternatives look into those instead. it surprises me to this day that the risk of endangering peoples health and environment still doesn't matter. This will not happen and our community is strong and we will fight till the bitter end.
jacinta	rheinberger	thirroul	nsw	2515	Please go away, we don't want this shit in the illawarra or anywere for that matter. I am a conservationist and we need to preserve what little bushland that the planet has. the animals don't need to suffer due to your greed and we don't want the risk of our water being polluted and our air having toxic fumes floating around, the evaporation ponds which evaporate the toxic waste into our atmosphere which then in turn spreads the toxic water around when it rains polluting massive amounts of freshwater. there are other safer alternatives look into those instead. it surprises me to this day that the risk of endangering peoples health and environment still doesn't matter. This will not happen and our community is strong and we will fight till the bitter end.
Lucie	Fisher	Otford	NSW	2508	No Coal Seam Gas Mining!
Julia	Fountain				The government has a responsibility to make public all the risks inherent in this venture.
Caroline	Toomey	Vizcaya	Spain		Australia already has a very high extinction rate. Cutting up a wildlife corridor such as this one in a high biodiversity area is horribly shortsighted and irresponsible.
Mark	Musil				The risk of contamination of Australias largest city's water supply is much too great a chance to take considering millions of people depend upon it to survive. Don't be foolish and allow Apex Energy to put millions of peoples' health at risk for profit.

Julie	Drew	AUS	2575		Exploration information should be delivered to all addresses in the local area. We have no information from the local Wingecarribee Shire COuncil
Ron	Macmaster	Coledale	NSW	2515	Dear Minister, LISTEN to the voice of the people. This is OUR land and not specifically yours to do as you wish.
Brendan	Leo	NSW	2500		I know that you will come under a lot of pressure from highly paid lobbyist representing the various vested interests who will talk about lost jobs, the state of the economy and environmentally responsible mining but you need to stand up to them. Go and watch the documentary Gasland to get an idea of the destruction this form of extractive industry creates. The mining of coal seam gas using fracking amounts to nothing less than environmental vandalism that will ruin our underground aquifers and hence our water quality forever, yes forever. If this goes ahead in less than 20 years we will look back and think how stupid we were as a nation to allow such destruction in the name of company profits. The profits will be gone and the destruction will remain!!!!
Nicholas	Grace	NSW	2026		This is a time for protecting the treasury of our natural resources, not for plundering them for short term profit with harmful side effects on the interdependent ecology we all live in. Thank you for your wisdom
wilson	cidral				
Chris	Williams	Wombarra	NSW	2515	No new gas infrastructure proposals should be approved, we need to shift now to renewables
Nancy	Urban	Farmborough Heights	N.S.W.	2526	
Rose	Ezold				
Val	Wallington	STANWELL PARK	NSW	2508	This is not an industry we can "try it and see". Once our water is contaminated it is too late to do anything, and the chemicals which can come out of the ground even without chemicals being used in the fracking process do NOT break down.
Debbie	Harman				
Naomi	Dunn	NSW	2516		
Louise	Hatton				
Juliet	Ramsey	Sydney	Australia	2024	
Robert	Keyzer	Bundanoon	2578		
Peter	Needham	NSW	2515		It is disturbing that this sort of activity should be even contemplated in such an area. In whose name is this being done?

Stephanie	Schulze	Helensburgh	NSW	NSW 2508	
Lucia	Fischer	Otford	NSW	2508	
Cohen	Brown				
kelly	miller	helensburgh	nsw	2508	Please don't destroy any more of our area
Narelle	Happ	NSW	2508		
Ann	Gunning	corrimal	NSW	2518	
Virginia	brousse	moss vale	2577		
Helen	Donovan	Austinmer	NSW	2515	
Kamala	Kennedy				
Lisa	McHardy	Stanwell Park	NSW	2508	
Joyce	Wilkie	Gundaroo	NSW	2620	
Flona	Bury				
Marie-Claire	Demers				We want a moratorium on CSG mining and a total ban of 'fracking' practices. WATER before PROFITS !!!
angela	sands				
Helen	Gordon	Thirroul	NSW	2515	
Suzanne	Greeven	Thirroul	NSW	2515	As a practising Buddhist I strongly object to more exploitation of resources. Me and my family would rather use less of everything. When will we stop looking for "solutions" to get more energy and remove the source of the trouble: unending human greed. Understand that not everyone in Australia wants to have 1 tv per person, 1 four wheel drive etc etc. Look at what happened in Japan? That is not a natural disaster, it is man made!!!
Catrina	Sturmberg	NSW	2250		It is ludicrous to even consider fraccing, or coal seam gas exploration anywhere, let alone in Sydney's water catchment. That the citizens of Australia even need protest such developments is a testimony to the failure of government.
Miriam	Bos	Hill Top	NSW	2575	
Nick	Watson	NSW	2508		Please please stop coal seam gas exploration occuring in our conservation areas
Katie	Cooper-Wares	Stanwell Park	NSW	2508	
Susan	Ambler	2780			This would be truly crazy in Sydney Water Catchment land. This is Sydney's drinking water.
Thorsten	Kulp				
lesley	sammon				
Alison	Clouston				
Abby	Pfahl	Rose Bay	NSW	2029	

John	Spira	Austinmer	NSW	2515	
Gro	Frolund	2022			
stephen	hamper				
Joanne	Kennedy				
Vicky	Marquis				
Vicky	Marquis	NSW	2037		
Alexander	Hromas	Hunters Hill	NSW	2110	
shakti	burke	kyogle	nsw	2474	Protect water supply for now and for the future.
adriana	mansueto	nsw	2330		
Penny	Pfahl	Paddington	NSW	2021	
Martin	Harris				
Nyema	Hermiston	Mittagong	NSW	2575	Heavy metal and chemical poisoning is already a public health problem. The current rate of global consumption of natural resources is not sustainable in the long term. Investing in conservation is far more sensible
David	Turner	KATOOMBA	NSW	2780	
Denise	Howes	High Range	NSW	2575	I am particularly concerned by this project as I hear it will quite literally happen in our back yard. Yet the only information that has been sent to us (the landholder) has come from the local council who oppose the scheme!
David	Hay				
Sally	Hay	Mittagong	NSW	2575	
Genevieve	Hromas	Petersham	NSW	2049	
David	Mills	NSW	2038		
Jo	Pfahl	Bowral	nsw	2576	
Neil	Fox	Nowra	NSW	2541	
Caroline	Davis	Berry	NSW	2535	As at least six states in the US have already reported ground water contamination are we too negligent, uncaring to learn from others "mistakes".
Jennifer	Fox	Ashfield	NSW	2131	
Jess	Moore	Wombarra	NSW	2515	There are much cleaner and safer technologies available. The government should be encouraging the development of wind and solar, not encouraging the expansion of a dangerous industry, particularly in environmentally sensitive areas vital to the region's drinking water supply.
Patricia	Scott-Wandmaker	Mittagaong	NSW	2572	
Susan	Locke	NT	0872		
Will	Bligh				

Hamish	Stewart				The government needs to clearly demonstrate that coal seam exploration will NOT have adverse effects on the water table, when all the evidence currently shows the exact opposite.
Charlotte	Davis	2575			
catherine	wernick	welby	nsw	2575	
Hilary	Balmond				
Julian	Wolkenstein	Exeter	NSW	2579	
Lucinda	Turner	Welby	NSW	2575	
Fernanda	Maia Campos	Bowral	NSW	2576	
Richard	Allen				
Lisa	Allen				
Ann	Mackay	Bowral	NSW	2576	
Annalise	Scanlan	Bowral	Nsw	2576	
Kate	Lavender				let us LIVE in peace ! NO MORE MINING GET YOUR INCOME ELSEWHERE !!
Craig	Swallo				
Jacinta	Tonkin				
Kaye fuller	Donnan	Berrima	2577		
jo	henderson	Robertson	NSW	2577	
kelly	o'connor	Stanwell Park	NSW	2508	
Glenda	Fardell	Helensburgh	nsw	2508	I am in total dismay and paralysed by fear for the total disregard for the local community. This COULD literally be a matter of Life or DEATH. I hope not another James Hardie lawsuit.
Robert	O'Connor	2508			I am struggling to comprehend the level of deception and double standards from the Coal Seam Gas industry and local and state governments. We cannot even hike in sydney Water Catchment areas and yet if there is a dollar in it for the government we can go ahead with Coal Seam Gas. Have some respect for local communities and stop threatening our health and water supplies as well as the wildlife. Local children and visitors play in the creek/lagoon that runs past my house. This same creek has it's source on the escarpment where several wells are planned. When the wells have a problem how is this going to impact the creek and anyone unfortunate enough to be in it when the polluted water arrives? There are plenty of renuewable non polluting sources of power, why go with a destuctive polluting one?
Vanessa	Mercer	Helensburgh	NSW	2508	

patricia	gauci	helensburgh	nsw	2508	Please dont do this, it will be devastating, we REALLY NEED to consider our food and water supply
Karyne	Gough	Wollombi	NSW	2325	
annabel	whitten	st peters	nsw	2044	Please stop this madness!! Our precious water catchment should be a complete 'no go'zone. Obviously the people making these decisions have no children, because they don't actually care about our future.
Susie	Martin				
Alison	Smith	NSW	2508		I think the money that will be brought in from the CSG mining will be spent on health care, water purification and paying legal compensation to people in the future all resulting from the CSG mining in the first place!!! Quick fix, quick buck solution always come back to bite HARD. STOP CSG MINING NOW!
Amanda	Onus	Coolac	N.S.W.	2727	
Deb	fairbairn				
Stephanie	Buckle	Fairlight	NSW	2094	
jean	kittson	mosman	nsw	2088	
JAne	Jory				
Trish	Sherbon				
Lucy	Purchas	Mosman	NSW	2088	NO!NO! and NO!
Denis	Wilson	Robertson	NSW	2577	Drinking water must be protected from poisonous contamination of groundwater. This application ought be rejected. If it is not, then the the NSW Department will be held accountable. Denis Wilson Chairman Australian Water Campaigners Inc
Isabella	MArtin	mosman	NSW	2088	
kim	martin	mosman	nsw	2088	
Melanie	Hendry	Dulwich Hill	NSW	2203	
Peta	James	Dulwich Hill	NSW	2203	
Peta	James	Dulwich Hill	NSW	2203	
elaine	smith	helensburgh	NSW	2508	

kathe	Robinson	Wedderburn	NSW	2560	Unless an adequate analysis is undertaken by governments about the serious and long term effects of coal seam gas mining in Australia these will come back to bite us. Present thinking about mineral resources and mining in Australia is dangerously inadequate and lacks the courage to contest the short term interests of mining corporations.
Timothy	Gooding	Coalcliff	NSW	2508	I am particularly disturbed by the prospect of mining on the Illawarra Escarpment, above the line of coastal villages, which will be the unfortunate victims of any adverse consequences of mining procedures.
Ian	Hoy	Helensburgh	NSW	2508	Please think beyond the money and think about our kids and their future. It's more important than the gas.
Amber	Badger	Helensburgh	nsw	2508	
Rachel	Shoemark				
Jennifer	Brown	Willoughby	New South Wales	2068	
Gabrielle	Adamik				
Janine & Todd	Stewart	Helensburgh	NSW	2508	
Kate	Heffernan	nsw	2508		
Valerie	Churchill	Helensburgh	NSW	2508	
alix	delaney	nararar	nsw	2250	
Miriam	Hammonds	Helensburgh	NSW	2508	
KRISTY	SMITH	HELENSBURGH	NSW	2508	
Katrina	Gulaj	Stanwell Park	NSW	2508	We live in a pristine area.Lets keep it that way.Too much to lose.
Mal	Anderson	Coffs Harbour	NSW	2450	
Nicola	Shafer	Helensburgh	New South Wales	2508	WE SAY NO TO APEX BUSINESS !
Allan	GREEN	BARDEN RIDGE	NSW	2234	I was horrified to find out that coal seam gas exploration (and presumably future mining) has been approved for the Woronora Dam catchment area. I am vehemently opposed to any such activity in these supposedly protected areas with their preserved environments and the unpolluted water resources they provide. Damage to bushland and the very rock layers they rest on is forever. Coal and gas is not
Jamie	McGarva	Dapto	NSW	2530	
Rick	Warr	Wombarra	NSW	2515	I can't believe that this has been allowed by our Government. If so, it's not a Government I support. Why are we fracturing our mother earth without a care for the impact on pure ground water?
kerryn	valeontis	baulkham hills	nsw	2153	How can you put untested chemicals into the ground, so close to our water supply? what are you thinking?

Monica	Engel	Robertson	NSW	2577	
Carolyn	Mutch				
Luis	Trujillo				
Christine	Keane	NSW	2508		It's almost incredible to believe that the Government is approving CSG mining around a major water catchment area. I am strongly opposed to the proposal to allow CSG mining in the Helensburgh area, given the information available on the adverse effect this mining can have and the lack of government monitoring of drilling sites.
Elizabeth	Trujillo	Thirroul	NSW	2515	
Nina	Risi	WARILLA	NSW	2528	
Kevin	Brinsmead	HELENSBURGH	NSW	2508	
Jacque	thoms	2508			
Sandra and Mark	Jones	Coalcliff	NSW	2508	Can't believe that this government continues to talk about carbon taxes in an effort to convince voters that it cares about the future of our environment and then goes ahead and facilitates something like this!
Sabine	Hauth	Woonona	NSW	2517	Having lived for over 20 years in the far northern Illawarra (Austinmer), I am fully aware of the biodiversity of the whole area. We need sustainable behaviour to keep this important nature strip.
Lindsay	LECKEY	STANWELL PARK	NSW	2508	
David	McCarthy	Stanwell Tops	NSW	2508	
amy	garbutt	warilla	nsw	2528	
amy	garbutt	bulli	nsw	2519	
paul	murdoch	stanwell park	new south wales	2508	Is there any way we can stop this madness
Sam	Leckey	Stanwell Park	NSW	2508	
Megan	Armstong	Stanwell Park	NSW	2508	How can you ethically act for the good of the nation when this process is not 100% sound. Who in their right mind would allow a mining operation to rape more resources from the earth when the water of Sydney maybe compromised. Sorry after the fact will be too late. Think of the future not just respond to the will of the multinational international corporation. This is our land, our people, our fauna and flora.
Margaret	Hopkins	Gymea	NSW	2227	It is difficult to comprehend the absence of any sense of responsibility by Apex Energy. The actions proposed are sheer environmental vandalism.
amanda	walsh				We cannot eat or drink money! Comprende'?
Kevin	Brinsmead	Helensburgh	NSW	2508	
Emma	Clayton	Helensburgh	NSW, Australia	2508	

Ben	Walsh	Kanahooka	NSW	2530	Coal seam Gas is still such an unknown, why would we drill in such a vulnerable area as this. I believe we need natural resources, but let's make mining responsible. Gas wells leak, we have our communities drinking water here, the extra traffic, the holding ponds, fire hazards, the chemicals used. All these are reasons to stop CSG and look into more sustainable energy sources. Ben Walsh.
Pauline	Denney	Coalcliff	NSW	2508	Do not destroy the environment we live & work in Pauline & Roy
Susanna	Rennie				It is unacceptable that there has been no public consultation prior to the approval of the 15 coals seam gas wells for development in the northern Illawarra. On this basis any approvals should be rescinded pending a public inquiry.
Susanna	Rennie				It is our understanding that there was no public consultation prior to the approval being granted for the 15 coal seam gas wells in the northern Illawarra. This is unacceptable. Notice of pending approval was not made public, this is also unacceptable. On this basis, the approval of the 15 CSG wells for development must be rescinded forthwith and a public inquiry instigated.
Suzy	Gneist	Flaxton	Queensland	4560	
Gerald	Bartlett	Gunnedah	N.S.W.	2380	We don't at any fraccing in NW NSW, either. It's all bad news - no amount of monet will compensate for a poor result!
Danin	Kahn				
Simon	Fuhrer	nsw	2508		It's not all about money!
Stephen	Campbell	Helensburgh	NSW	2508	The proposal to develop CSG in Sydney's water catchment is preposterous. Please put a halt to this development by whatever means you have available. thanks.
Nathaniel	Pelle	Stanmore	NSW, Australia	2048	The ecosystems that surround our spreading cities are precious for their contribution to biodiversity and environmental stability. Their preservation is of vital importance as we look to retain the capacity of the land to support the growing population. The importance of fossil-fuels pales in comparison to the importance of the region's long-term sustainability. Sustainability is a matter of fundamental physical limits, economic needs are flexible and temporary.
cris	payne				
Eleanor	McPhee	Helensburgh	NSW	2508	Who on earth could possibly think it would be a bright idea to do coal seam exploration in a water catchment area?!? Gasland should be required viewing for all the policy makers dealing with this issue!
Jill	Merrin	Austinmer	NSW	2515	

Jill	Cockram				The Four Corners program was enough to indicate what could happen when gas companies are given permission to perform damaging activities around large farms let alone our water catchment areas. For heavens sake, No! NO! NOOOO!
Victoria	Matthews	Nambucca Heads	NSW	2448	
Victor	Teixeira	Berkeley	NSW	2506	
Cath	Blakey	Mangerton	NSW	2500	Our drinking water is a renewable resource if we look after it - it's not like desalination plants are a viable alternative to healthy catchment areas
Gerard	McDonell	Otford	NSW	2508	It seems to me that no-one really knows what the real implications are for the future. Our children can't afford to deal with mistakes made now for short term monetary gain.
karen	bampton				
Paul	Spyris	Mascot	NSW	2020	
Jennifer	Brewer	NSW	2042		
Monika, Klaus & Kristofer	Kopicki	St Peters	SA	5069	In the last 20-30 years the damage we have seen first hand, done to Australia's precious & fragile eco system is visibly obvious to our family as we travel the length & breadth of the country. What happens after the current craze for coal seam gas? Should we mutate now? Greedy developers can never replace the naturally sustainable environment that we've lost.
Erland	Howden	NSW	2780		
Sandra	Johnston	Helensburgh	NSW	2508	
suzanne	Sinclair	hervey bay	QLD	4655	
Caroline	Baum	NSW	2515		
Jenelle	McWilliam	Stanwell Tops	NSW	2508	Our environment needs to be our number one concern and to look to other forms of energy, solar etc.
Adrienne	Erwin				This is a short sighted goal. We cannot allow this to progress.
Pamela	McCabe	TAHMOOR	NSW	2573	
BRAD	INNES	TAHMOOR	NSW	2573	
John	Parkinson	Wollongong	NSW	2500	
Heather	Fisher	2508			
David	Murray	Gwynneville	NSW	2500	the chemicals used to fractinate methane are highly toxic and must not be allowed to contaminate groundwater
Ken	McCarthy	Stanwell Park	NSW	2508	
Heather	Sleigh	Helensburgh	NSW	2508	
Lisette	Tatnell	Coledale	NSW	2515	

Marion	MacKinnon	NSW	2500		This is irresponsible and destructive.
Kristie	Kentwell				
Rozalia	Pocius	Thirroul	NSW	2515	
sandra	Tan				
Barbara Jan	O'Donoghue	North Ryde	NSW	2113	
Lizzie	Buckmaster	Coledale	NSW	2515	
Elyssa	Mackie				
Jen	Pope	Coledale	NSW	2515	
Lyn	Bradley	Crows Nest	NSW	2065	More transparency from the govt and miners and reports on the damaging effects, not just reports by miners and those employed by the miners.
Judith	Tuggle	Austinmer	NSW	2515	
Emma	Rooksby	2519			
Gabriele	Downie				
Lindley	Berrie				
Denise	Prowse	Keiraville	NSW	2500	Who do these mining companies think they are? They come in take over our land, where do they get permission, from Governments who are out of touch with many of the people. It is the people of Australia's land and they do as they please with our land. Bad luck if it stuffs up the environment for thousands of years, who cares as they've made lots of money and that is the only real God for a lot of these mining companies and people these days.
Bill	Claridge				Please don't let these greedy people destroy our heritage
Julie	McAlpine				
Lesley	Imber	NSW	2229		
Yasmin	Funk				
Adam	Littman	Otford	NSW	2508	
Kerrie	Delfino	Helensburgh	N.S.W	2508	This has to be stopped in farming and water catchment areas. There seems to be no end to the greed of these companies. Do they or our goverments ever stop to think about the long term future of this country or just their immediate greed.
Brianna	Smith	Austinmer	NSW	2515	No further exploration should be carried out anywhere in Australia until a fully independent government enquiry has been conducted.
Leonie	Kennedy				
Doug	Frank	2768			We are nuts, short term gains with no real understanding of the long term impact. This is driven by blind greed that will hurt our future generations

rae	jacobson				
Dallas	de Brabander	ACT	2602		I request that you please tell me what you will do to prevent the damage to the environment and to the water catchment that this activity will do. I look forward to your response.
PETER	SMITH	Austinmer	NSW	2515	
Ross	Dearden	Bulli	nsw	2516	
Miguel	Heatwole				What an unbelievably poor idea! To threaten a city's drinking water for the sake of a fossil fuel that threatens the entire world.
Peter	Marsh	Bulli	NSW	2516	Hands off my kids future!
Kaye	Osborn	Corrimal	NSW	2518	Water is a valuable resource, especially in these times of uncertain rainfall. The Catchment area in the general area of the Southern Coal Fields is already riddled with mines. Damage to water ways may take 30 or 40 years to become apparent. We all have a responsibility to future generations to protect this area. I am shocked and appalled at the negligence of a government that approved these boreholes.
Sharon	Byard	Austinmer	NSW	2515	
Kathe	Robinson	Wedderburn	NSW	2560	If the resources of this country are not controlled by way of more sophisticated analysis it will end up being a clapped out old quarry inhabited by cane toads. There needs to be a complete rethinking about the way present global production sustains an unsustainable future. The irrationality of the present 'rational' approach is extraordinary.
peter	moran	oak flats	nsw	2529	
Neill	McCarthy	Warilla	NSW	2528	
Barbara	Sterling	Mittagong	N,S.W.	2575	Mining of Coal in this catchment area is totally inacceptable
Denis	Doherty	Surry Hills	NSW	2010	four corners should be enough warning for you!
Terri	Creagan				
Kenneth	Ogilvie	Campbelltown	NSW	2566	shame!
Warren	Creswick	Windang	NSW	2528	I was feeling sorry for the residents of Qld but now realise this is happening to us as well!!!
Genevieve	Tait				

Leila	Kraushaar	Warilla	NSW	2528	I am concerned that we have not completed sufficient research into coal seam gas mining to establish whether or not it is safe, and assess what implications it will have on the environment. I believe that companies who are investing in this are likely to cut corners in order to maximise profits while opening up our communities to massive potential risks. I do not want you to risk our environment and my family's health so that mining companies can deplete our natural resources and make substantial profits. These resources belong to the people of NSW, and you owe it to all of us to ensure that the technology is safe before you approve it, and also to ensure that the people of NSW get appropriate rewards for their resources and for assuming the risks.
Mike	Malherbe	Stanwell Park	NSW	2508	
stephen	whitehead	Helensburgh	NSW	2508	
naomi	whitehead	Helensburgh	NSW	2508	
Julie	Marlow				
Glen	Jackson	port kembla	nsw	2505	This issue has made me furious. How dare any government body put at risk MY water supply and MY environment. When will we learn that these "gold rush" developments too often lead to badly thought through decisions, expensive clean up opperations and environmental effects that can not be reduced or rewound once they are present. It is foolish mony grubbing at a time when we need true leadership and investment in renewables and alternative energy.
Denise	Farrier	Austinmer	NSW	2515	I am strongly opposed to any coal seam gas borehole operation anywhere but particularly in this valuable natural area. I am very worried about the process of fraccing and the damage it can do to the environment. I was shocked to watch a report on ABC's 4Corners program and to see that safety standards in QLD have not been carried out by operators there. I believe this process is extremely damaging to people's health and to our natural enviornment.
Steve	Whistler	NSW	2515		
Jo	Cox	Cheltenham	NSW	2119	All departments of the State and Federal Government need to check whether their planners have genuine competence in their fields. These planners have ignored some of the most vital aspects on which their decisions should have been based.
Sue	Brittain	Corrimal	NSW	2518	
Barbara	Smith	Ulladulla	NSW	2539	

susanl	sergent	Fairy Meadow	NSW	2519	Clean water is more precious than "gold" essential to sustain life for millions of humans and living beings for now and whilst the Earth remains habitable.Poison the water destroys us our ecology our future generations very survival.These criminals must be held accountable.The Labor Fed Govt, The NSW Labor Govt.the mining companies.With the full force of the law bought down upon them.Climate Change will accellerate at the release of methane gas the worst greenhouse gas. The Govt is willing to sacrifice our very existence for short term profits they are human being too and their families depend on clean water too.
Miranda	Hartcher-O'Brien				
chris	harper	grafton	nsw	2460	
Diana	Covell				
Sally	Radford				
Mical	McNeilly				It just goes to show how low & corrupt the worlds corporations have become the fact that $$ is above are the Health and Environment of human beings.
Lynda	Bowden	NSW	2508		
Brian	Brady				There must be a point when even politicians must see that the future of our children and grandchildren is held within the locked up bounty and wealth of having a clean enviroment. Why trash their future? Lets put our efforts into renewable energy which creates jobs and keeps the evironment clean. Dont let the vandals loose in the northern escarpement of the Illawarra.
howard	corfield	tarrawanna	nsw	2518	I can think of few short term gain processes more dangerous to the long term viability of fresh water ground and surface water resources essential for maintaining both human urban, rural and natural systems. Please do not allow either the exploration for coal seam gas,which, if granted could lead to the widespread production of coal seam gas in the Sydney catchment. I would ask you to consider the two basic principles behind environmental law-intergenerational equity and the preventative principle (no application using potentially harmful processes or having harmful outcomes should be approved unless it can be shown conclusively by the proponents that it will be benign)when debating the advisablity of coal seam gas extraction exploration/commercial deveolment in the Sydney Basin for short term commercial gain
Greg	Hampton	Austinmer	New South Wales	2515	

Merilyn	Wineera	Peakhurst	NSW	2210	
Andy	Zakeli	Oak Flats	NSW	2529	
Lynn	Coyle				
Malcolm David	Farrier	Austinmer	NSW	2515	After seeing the Four Corners' programme on coal seam gas extraction, I am extremely concerned about this proposal. As an environmental lawyer currently finishing off the 5th Edition of the Environmental Law Handbook (Thomsons), I intend to take a particular interest in the legal aspects of these developments. David Farrier
Robyn	Christofides	Coledale	NSW	2515	This process is an environmental disaster waiting to happen. Please do not allow this to proceed.
Gavan	Hassett	Randwick	NSW	2031	
Judith	McGrath	NSW	2508		
Craig	Golding	Bowral	NSW	2576	It's 2011 and after all we've learned from the U.S experience of coal seam gas extraction by "fracking" you allow this practice to persist and force it down the throats of the Australian people - Shame on you! When are Australian politicians ging to put more value on the Australian people than they do on big business? Fuck off to all of you and coal seam gas extraction. We will not be voting for you at the next election or at anytime thereafter!
Lisa	Davidson				
Pat	Kennedy				
Karen	Cummings	Sydney	NSW	2515	please take steps to secure our catchment areas-the evidence is overwhelming that long wall mining is already undermining the area. International studies caution against coal seam boring.
karen	kennedy	NSW	2508		
Georgia	Phillips	Stanwell Park	New South Wales	2508	sorry about the typo. please change last two words to "coal gas" As a former member of WIRES, I quit trying to do the dirty work, cleaning up from pressures of reduced habitat. Also I am quite sure water quality will be affected. Drinking water in other areas where this fracturing takes place had made the water poinsonous. Save lives.

Stewart	Cunningham	Helensburgh	NSW	2508	I am dead set against this application....having seen Four Corners on the ABC 21st Feb.....there is no way I am prepared to risk our environment and water here in the Illawarra.
Rodney	Agha	Enmore	NSW	2042	
Jon	Roberts				
Rod	Plant	Corrimal	NSW	2518	No fraccing under our catchment - 4 Corners showed the damage already caused to the Great Artesian Basin - moratorium on CSG!!
Marcel	Mulder	Helensburgh	NSW	2508	
David	Grdeen	Coledalewater from? there is no reversal once pollution i	NSW	2515	If the gas seam "fracking" liquids affect the quality of our drinking water, where will we get our drinking water from?
Wendy	Mulder	2508			
Nicola	Lobwein				
Mark	O'Brien				
andrea	obrien				
desley	hennessy				
Patricia	Underwood	Leichhardt	NSW	2040	
Mary	Hawkins	Kanahooka	NSW	2530	
Margaret	Hamon	Bawley Pt	NSW	2539	
Sean	Corrigan	Trinity Beach	QLD	4879	
Catherine	Edwards	Helensburgh	N.S.W	2508	
emma	clayton	NSW, Australia	2508		
LeeAnne	Crisp				
john	Fuller	Concord	NSW	2137	No to caol seam gas, the bush is scarce & our water is too important, considering the experience of others.
Jacqueline	Zantiotis	Palm Beach	Qld	4221	ALL life in all its different forms DEPENDS on clean, safe and uncontaminated water including artesian ground water. Life does not exist on gas including Methane. 4 Corners program on 21/2/11 re Queensland showed how ignorant, & irresponsible governments are. Just as greed for more $$$$s brought about the global financial crisis and effect on economies. Likewise the same is going to happen again but even worse human health, animals and agriculture ruined which in turn affects all areas of economies. This will be caused by those companies chasing more $$$s who can't be trusted and with the approval of governments. Chemicals used in exploration and production are toxic and cant't be be removed from the water and are residual - will affect all life.
Nikki	Hensen				

Michael	Carney	Woodend	Victoria	3442	Dear Ministers,After watching the ABC Four Corners program on the 21st Of February I am deeply concerned at the long term effects of this type of resource mining.I believe an immediate cessation of this type of recovery of gas is needed until full evironmental impact study, water catchment study and accurate Material Safety Data sheets are presented concerning the chemicals used in this process.Water table damage, pollution and lowering is long term and the effects could be felt for generations.Peoples health and existence is not about making the numbers look good in the budgets and employment.Make a stand and ask for a halt until more is known on the long term issues.SincerelyMike Carney
john	jeayes	Port Macquarie	NSW	2444	
Irene	Tognetti				
Lesley	Ayling	Stanwell Tops	NSW	2508	
Jean	Tucker	Mackay	qld	4740	
Mark	le Gras				
Dianne	Piggott	Helensburgh	NSW	2508	
Michelle	Higgins	Mittagong	N.S.W	2571	
Graham	Routledge	Sydney	NSW	2229	
Robin	Wilson	Helensburgh	NSW	508	
Tony	Strang	Wollongong	N.S.W.	2500	
Jaime	Plaza				I find it hard to believe that after all the evidence against this mining activity any consideration to its approval could be considered, very arrogant attitude! I guess money talks and people's feelings don't come into this equation.
Claire	Wilmott	NSW	2205		
Catherine	Wilson	Thirroul	NSW	2515	vI have recently seen studies about the negative environmental effects of csg boreholes and vehemently oppose their use in the valuable environmentally sensitive area proposed.
pamela	wilson	Cordeaux Heights	NSW	2526	
Frances	Burnham	AUSTINMER	NSW	2515	
Nicole	Cody				

kathryn	hazlewood	moss vale	nsw	2557	i have many family and friends living in the area i am also formly of woronora heights
michael	crighton	austinmer	nsw	2515	
Cheryl	Stevns	Broke	NSW	2330	I object to coal seam gas EVERYWHERE! The legislation, they hide behind, passed way back in the sixties, must have been invented by a madman. If said person is still alive, he/she should be strung up!
Bruce	Simpson	St Ives	NSW	2075	Whatever happened to the promise of greening Australia with renewable energy. We must stop this mindless destruction of our environment and greed of big business, under the guise of"It is for your benefit".
Samantha	Hill	Cronulla	New South Wales	2230	
Warwick	Erwin	Stanwell Tops	NSW	2508	No wells drilled yet on SCA land - Stop them altogether. No Drilling. There has been No Community Consultation by ANYONE.
Stephen	Darcy	Port Kembla	NSW	2502	
sarah	folwell				
PAUL	DEGNEY	Arncliffe	NSW	2205	
melanie	duncan	nsw	2508		
Christina	Pender	Crows Nest	NSW	2065	
VICTORIA	CHITHAVONG	HELENSBURGH	NSW	2508	If you are to go ahead with this, will NSW pay for the region's drinking water once it is rendered dangerous for consumption? Maybe there should be a levy for that since it obviously has not been researched thoroughly and thought through.
Barbara	Pelczynska	Bendigo	Victoria	3550	
Terrill	Nordstrom	Wollongong	NSW	2500	
Barbara	Pelczynska	Bendigo	Victoria	3550	Preservation of Biodiversity is of paramount importance for our well being and existance - we cannot live without natural ecosystem services that provide us with fresh water, air, fertile soil and all we need for our living
Alan	Stevns				Uncontrolled and unregulated Methane gas exploration and extraction must be stopped. Time to change the Part3 Act
Matthew	Begaud	nsw	2517		
Edward	Watkins	Toorak	VIC	3142	

Anne	Ware	Kirrawee	NSW	22232	
david	bowers	helensburgh	nsw	2508	
Ruth	Harvey	Coledale 2515	NSW	2515	
Holly	Daniels	Menai	NSW	2234	
Saroeuth	Ven				
Gina	Krohn	Helensburgh	NSW	2508	It is critical that, as elected representatives of the people, you listen to the voice of the people. CSG is not an acceptable alternative for our energy needs. It is certainly not worth the destruction of the environment in which we live.
John	Wiggin	North Gosford	NSW	2250	I object to all forms of coal seam gas extraction because of the toxic chemicals used in the process and the possibility of contamination to the water table
Pamela	Mackie-Schneider	Bulli	NSW	2516	Last night I watched 4 Corners and was dismayed by the serious environmental damage that can easily occur due to csg exploration and fraccing. The risks are way too high. Why risk current and future generations by destroying our finely balanced environment? Please stop Apex Energy and say 'NO' on your citizens' behalf to the approval they seek for an additional csg bore.
Marcia	Lamarr				
Phillip	Driver	Helensburgh	NSW	2508	If a Land Owner who has land in the catchment area cannot build a house how can it then be deemed ok for industry to build a gas plant?.
Todd	Hunter				
Kim	Barrett	Stanwell Park	NSW	2508	
Ann	Lomas				
MARILYN	MURPHY	BENSVILLE	NSW	2251	
Lauren	Holmes	2508			Please don't ruin our Water Catchment and precious National parks environment, endangering wildlife and bushland for generations to come.
sammy	mahler	helensburgh	nsw	2508	please protect our enviroment and think about the future of our children with regards to there health and there enviroment..
Peter	Savvides	Sylvania	NSW	2224	Minining in any way so close to a city will destroy the health of future generations - selling our children's lives for thirty pieces of silver. Shame on us for doing so.
Meryl	Bradford				
Kris	McIndoe	Helensburgh	NSW	2508	I urge you in the strongest manner to reconsider these plans which will put our precious local environment at risk. Kris McIndoe

Christine	Gilbett	NSW	2508		
Rachel	Smith	2756			
Alison	Smith				Don't destroy our pristine bushland. Big companies just dont care. Please go away and leave the area alone. Soon there will be no beautiful places people can go and enjoy. Look how disgusting Newcastle was with all the industry along the foreshores. We dont want to go down that path.
Amber	Badger	Helensburgh	NSW	2508	
Lyn	Beinat	Gisborne	vic	3437	
Garnet	Salkeld	Helensburgh	NSW	2508	
Megan	Salkeld	Helensburgh	NSW	2508	Please, leave the beautiful landscape alone. We do not need this going on around us. We moved to this beautiful part of the world to escape city smog and pollutants. Find somewhere else to do your dirty work.
Hamish Danks	Brown	Noosa Heads	QLD	4567	I'm a former resident of the Illawarra who appreciates the natural heritage of the Escarpment and am loathe to see any proposal for coal seam gas & hydraulic fracking which would devestate this area & impact on Sydney's water supply.
kirsty	stauce	stanwell Tops	nSW	2508	
Perry	Theophanous	Illawong	NSW	2234	Please help save our natural environment, not just stay there and watch the mad grab for cash!
Merike	Johnson	Kawungan	Qld	4655	We don't really need coal seam gas. Therefore we don't have to destroy every bit of the natural environment for something that is not essential.
Jill	Walker	2516			I hate your greed and hope you are all treated as badly as you deserve at election time. You deserve to be destroyed as you are destroying the Earth.
Anthony	PHILLIPS	Helensburgh	NSW	2508	
Kath	Clarke	2577			
Ross	Perry	Cromer	NSW	2099	v
Kevin	Kennedy	Helensburgh	NSW	2508	I am particularly worried about the use of chemicals in the process. The recent 4 corners programme (21st Feb) revealled that almost all of the Data Safety sheets for the chemicals in use were years out of date. This is totally unacceptable.
Peter	Dowell	nsw	2508		
Marlo	Dowell	nsw	2508		
Chris	Ballantyne	Qld	4659		
Graham	McLean	Stanwell Park	NSW	2508	
Neville	Arrowsmith	Bellambi	NSW	2518	
Ian	Scandrett	Moss Vale	NSW	2577	I oppose all further drilling.

Scott	Shillinglaw	Stanwell Park	NSW	2508	Please do not do this here, it is too close to population centres and protected lands. This should not be allowed, especially if the majority of residents are against it.
John	Dowley	OTFORD	NSW	2508	
Guillermo	Lunardi	Como	New South Wales	2226	
Rodney	Inglis	Helensburgh	NSW		
Mke	dugan	Wollongong	NSW	2508	
Ashleigh	Schiralli				I am appalled that mining techniques such as ´┐¢fracking´┐¢ are condoned in Australia, following evidence of its detrimental effects set by international precedents. Our native flora and fauna should be protected at all costs... not to mention the local community. Avarice really is the root of all evil.
Stephen	Flint				
Pauline	Treble	Otford	NSW	2508	I STRONGLY oppose coal seam gas extraction and the use of fraccing fluids in the Sydney Water Catchment area.
Tadgh	Duffy	WOMBARRA	NSW	2515	Having watched the 4 Corners documentary on this, i am horrified that the State Government would allow drilling to happen in residential areas.
IAN	FLETCHER	HELENSBURGH	NSW	2508	This is not only a catchment area, but borders the Royal National Park, Australia's oldest and the world's second oldest national park, and Garrawarra State Recreation Area, formed to preserve one of the last remaining areas of Gondwanan rainforest. Please protect it.
Gregory	O'Driscoll	Helensburgh	NSW	2508	You people don't care about conservation all you do is give lip service and then let these mining companies do as they please, beware the revolution.
justin	guest				

Ian	Napier	POKOLBIN	NSW	2320	This has got to stop before we have a similar ecological disaster as I see developing in QLD. Premier, in your last days in office, why not stand up for something that we can respect at last? Give the coal seam gas miners a message - and its not too far from what Tony Windsor has proposed recently, but it shows a little stomach to make a decision now. Let us plan for where they can explore - not grant PELs over the state that offer about 75% contiguous geographically coverage of our state without due diligence to a balanced allocation - parks, water resources, agricultural lands, tourism areas etc. Lets get control back from the miners. After all - if you look at the inflated claims of jobs and carbon benefits for longer that 10 minutes, one realises they are duping us. Cheers
steve	arch				
scott	gibson	moss vale	nsw	2577	I'd like life to be able to continue not be poisoned by those deluded by greed and profit who have deny the ecological reality n which we live.
Therese	Finch	Helensburgh	NSW	2508	I strongly object to any coal seam gas exploration in the Helensburgh area or anywhere in NSW.
peter	hilderson	Stanwell Park	NSW	2508	
Stuart	Porter	Bulli	NSW	2516	
dennis	clift	Port Macquarie	NSW	2444	
Ian	Carroll	Stanwell Tops	2508	2508	
Susanna	Pearson				
Bernard	Hibbard	Stanwell park	Nsw	2508	
Shona	Lee	NSW	2030		
Gae	Anderson	Coogee	NSW	2034	It's alarming that fifteen bore holes have been allowed to go ahead. Enough is enough. We do not want anymore drilling in this water catchment region.
Jenni	Muscat				
Libby	HIGGIN	NSW	2034		
tom	currie	bundanoon	nsw	2578	
Peter	de Graaff				
Sue	Moran	Oak Flats	NSW	2529	

Margaret	Whyte				I really fear for the future of our beautiful country. Will we have anything to hand on to future generations.
Natasha	Parish	Mullaley	NSW	2379	We should not be expanding the use of fossil fuel because these energy methods are too damaging to the environment and life on earth. Our household is investing in renewables for the future of our planet and we are acting now to be responsible citizens and as a duty of care to the planet.
S	Fawaz				
Tom	Agar	Nsw	2508		
Naida	Wills	Rylstone	NSW	2849	Not only are we set to ruin our beautiful city of Sydney and ignore the water and wilderness needs of our community. But we also let overseas companies in to rape our land instead of their own land We just seem to be ignorantly for short term gain and long term pain (and poverty).
Bert	de Hosson	Burradoo	NSW	2576	Please leave our wilderness areas alone.
Benjamin	Streat	2042			
Renee	Abrahams	Alexandria	NSW	2015	I spent 22 years of my life growing up in this area. It would be such a tragedy to have the enviroment impacted with this Bore. The effect it will have on the Flora and Fauna, as well as the local residents is horrendous. Why jepoardise this beautiful part of land for $$$$
Ian	Penman	Sutton Forest	NSW	2577	The proposal to clear substantial bushland and the potential pollution of our underground water supply is a total nonsense. Coal should not be viewed as more valuable as water, and the idea of extracting coal at the significant risk of polluting our subterranean aquifers is totally abhorrent to me and everyone else I have spoken to in this area.
christine	tilley	mittagong	New South Wales	2575	
Graham	Brown	Gungal	N.S.W.	2333	I am fully opposed to coal gas and all the climate problems that it entails.
maria	duvollet	Berry	nsw	2535	
hannah	Riordan				
jeanne	highland	nsw	2535		
Ruth	Groom	Holwell	Tas	7275	
Amparo	Llanos	NSW	2086		This proposal if it takes place it is going to affect us all. Therefore, we should all oppose to it.
Erica	Murray	Marrickville	NSW	2204	In such a vast country, why are we attempting to mine in the middle of residential Sydney? Who is profiting from this.... and who is losing....
CECILE	BARRAL	Mittagong	NSW	2575	

Merryn	McKenna	Karaak Flat	NSW	2429	
Lynette	Jacona	Woonona	NSW	2517	
Marion	MacKinnon				
Helen	Anderson	Bundanoon	NSW	2578	More than enough damage has been done state-wide. These companies cannot guarantee no permanent ill-effects to underground water, agricultural land, our bushland, our native species and any housing/buildings whether on properties or in towns.
Robert	Keyzer	Bundanoon	2578		
Carol	Menzies	Newtown	NSW	2042	
Keli	McDonald	NSW	2380		I can not endorse any form of expansion of fossil fuel mining, coal, gas or uranium when there are so many other cleaner, greener alternatives. Reliance on fossil fuels for the esimated future demand seems to be not planning but reactive thinking. Australia has some of the brightest minds in the world surely we can do better than threaten safety of our surface fourna & flora and our ground water. two thirds of the country is desert - turn this into an asset and stop destroying the limited healthy ecosystems that we have.
Gail	Norris	Wollongong	NSW	2500	
Sally	Cavanagh	NSW	2441		
Carolyn	Lee				I'm appalled that this type of operation be considered, let alone allowed in such an environmentally-sensitive area. Please consider the long-term negative impacts that this type of exploration will have on this region, as well was further downstream.
Sean	Corrigan	Trinity Beach	QLD	4879	
david	fisher	nsw	2042		
Johnny	Glasgow	Stanwell Tops	NSW	2508	
Sue	Cook				
Dennis	Stanton	NSW	2133		
Susan	Hawick	Burradoo	NSW	2576	
Suellen	O'Brien				
Jamella	Hassan	randwick, Sydney	NSW	2031	I SAY NOOOOOOOO!
Eloise	Ross-Jones	Bundanoon	NSW	2578	
Fiona	Henson				
Frederic	Nowak	NSW	2943		
Ralph	Clark	Bundnoon	NSW	2578	
Marilyn	Streat	Exeter	NSW	2579	

Daria	Ball	Sutton Forest	NSW	2577	All farmers in the Southern Highlands are opposed to coal seam gas extraction and coal mining in the Sydney Water Catchment Area and across some of Australia's best farm land.
Garfield	Houston	Sutton Forest	NSW	2577	
Lin	Meeks	EXETER	NSW	2579	
Pam	Smith				As a grandparent and bush regenerator I can not stand by and watch as more of our catchment areas are depleted of their pristine bushland and biodiversity. The future wellbeing of people is inextricably linked to the wellbeing and maintenance of what little of our environmental resources remain. They are priceless and irreplaceable. Exploitation of these precious areas should not be allowed. It is time we celebrated, valued and preserved the contribution of these areas to a healthy future not approve actions that will lead to their destruction.
Nicky	Barry	NSW	2043		
Robin	Saker	Broke	NSW	2330	Don't ruin our environment for generations to come in the name of short term profits.
Chris	Blatch	Unanderra	NSW	2526	
Kenneth	Challenor	Bundanoon	NSW	2578	
john	mcdonald	yowie bay	nsw	2228	
Vincent	Bicego	2518			
Sandy	Gladwell	Stanwell Tops	NSW	2508	Please do not risk our environment - we as humans have already polluted & destroyed the biodiversity of plants & water.
Bin	Li				
Hein	Sturmann				
John	Seed				
Emma	Franz	Carlton	Vic	3053	
abby	dobson	elizabeth bay	nsw	2011	
Wendy	Suiter				
Claire	Burniston	Bowral	NSW	2576	water is life.
Betsy	Baker	Rozelle	NSW	2039	
Alan	Tomlinson				
Pam	Tomlinson	Rodd Point	NSW	2046	
Caroline	Davis	Berry	NSW	2535	Please protect our remaining bush for our grandchildren and succeeding generations if there are to be any.
Dale	Chalmers	Bundanoon	NSW		

Les	Mitchell	Kangaroo Valley	NSW	2577	
Warren	Holder	Gerroa	NSW	2534	
Andrew	Petersen	Gerringong	NSW	2534	
jane	collings	East Kangaloon	NSW	2576	
Joyce	Sebar				
petrina	tinslay	nsw	2021		This practice of fraccing destroys the water the environment, while using huge amounts of water in the drilling, and is an enviromentally unfriendly way of getting energy for the very short term. It is short sighted and wrong for this to go ahead.
Charmian	Eckersley	Eraring	NSW	2264	I strongly object to the approval of this bore.
Sue	Williamson				
Susanne	Charker	2577			
Desiree	Lucchese	Newcastle	NSW	2300	Nothing to add, extraction with due caution
Ruth	Hartcher	Bowral	NSW	2576	Please let us not take action that we bitterly regret, and that our grandchildren have to pay the price for.
ginn	symons	qld	4212		
Janet	Mayer	Foxground	NSW	2534	This proposal makes no sense ... The risks to water quality , biodiversity etc. etc. are far too great. It is time to put effort into renewable energy sources and stop trying to extract every last fraction of finite resource. Now is the time to make this change and stop procrastinating!
Alison	Viner	Clovelly	NSW	2031	
Shane	Simpson	Thirroul	NSW	2515	
Leah	Simpson	THirroul	NSW	2515	
Ron	Jones	Bundanoon	NSW	2578	
Susan	Hill	Sydney	NSW	2042	
Laurie	Barry	Bundanoon	NSW	2578	Having seen the film "gaslands" it was obvios that it is encumbant on all concerned to be aware of the health & danger to the environment posed by the fraccing of coal gas seams .
damian	bancks	2517			
Todd	Sowter	Asquith	NSW	2077	
Mark	Storey	Wollongong West	Australia	2500	
timo	tupala				
rosemary	kornfeld	mittagong	nsw	2575	
Debbie	King	Helensburgh	NSW	2508	

Ewald	Siegel				Coal seam gas is no better than filthy coal because the large amount of energy and resources needed to mine it and a significant amount of this powerful greenhouse gas is lost (without burning).
Anthony	Meaney	Summerland Point	NSW	2259	Tony Kelly-the Minister for Developer Donations, Leave Catherine Hill Bay and Gwandalan alone you moron.They've already been knocked back by the Land and Environment Court.Why not resign before March 26-do something useful for a change.
Graeme	Sanders	Bowral	NSW	2576	
Robyn	Murphy	Canowindra	NSW	2804	The mining/exploration companies seem to think becasue they offer people jobs that we should all bow down to them, NO WAY, there is more to life than ripping up our land, we only have this land and water once, SO LEAVE IT ALONE. It's not the companies to exploit, it's ours the community of NSW! Not every square inch of ground is to used for the companies benefit. I live here, I don't want this destruction-PISS OFF NOW.
Linda	Hopkins	Bunanoon	NSW	2578	
Ian	Webster	NSW	2579		Food security & water security are more than short term gains. They should not be compromised.
Sarah	Daniel	2300			
Daryl	Morris	Newtown	nsw	2042	What is more important food water environment or fossil fuels? Why the hell do I even have to ask this question? These must have priority over coal or gas.
Virginia	Reid	NSW	2300		please dont pollute what we already have without a damn good try at doing things alternatively!
Bruce	Pryor	Bundanoon	NSW	2578	We've been walked over for too long, by bureaucrats telling us these things are in our best interests. Pursue the renewable energies for christ sake,an alternative to the easy, highly polluting option!!!
Peter	Moran	Oak Flats	NSW	2529	
Suzy	Molyneux	Bundanoon	NSW	2578	We need a national approach to clean water, a huge increase in renewable energy, protect prime rural for food production, as well as the mining industry. However strict rules need to be applied to protect all.
Darren	Agar	Helensburgh	Nsw	2058	
Terrance	Flynn	Helensburgh	NSW	2508	Electricity produced from coal seam gas increases carbon dioxide levels in the atmosphere. It is just another filthy dirty power source.
Reginald	Wade	NSW	2578		
martyn	mordy	bundanoon	nsw	2578	
Glen	Merrett	Killarney Vale	NSW	2261	Save our drinking water, save the humans, you can't drink money!

Frances	Cairns	Russell Vale	NSW	2517	
Phil	Preston	NSW	2508		
Russell	Chiffey	Coffs Harbour Jetty	NSW	2450	
Melissa	Melissa	Stanwell Park	NSW	2508	This will be a major election issue for the electorate of Heathcote in the forthcoming state election -please take note
Judith	Tuggle	NSW	2515		
Maria	Macdonald	Bowen	QLD	4805	We have got to look after our waterways and say no to coal seam gas. Governments own reports have advised that the extraction of gas by fracking process is far too risky and worldwide investment banker J.P.Morgan have advised investors to stay away from this industry because it is to high risk. We need qualified Government reports to be done looking at renewable energy alternatives as clean energy options and stay away from polluting fossil fuels in all forms. Gas simply does not stack up as a clean alternative to coal.
Frances	Williams	Helensburgh	NSW	2508	
Justine	Suttorini	Cammeray	NSW	2062	
Andrea	Ward	Bundanoon	NSW	2578	
Sandra	Menteith				
Val	Ochalski	FIGTREE	NSW	2525	I would think that by now, with the present knowledge of the water issues in this country that such an enterprise could even be considered. I am shocked to hear of this proposition by Apex and even more shocked to hear that Sydney Water would allow such activities in its catchment areas....Shame
glen	whitbread	The Oaks	2570	2570	It is exhausting that still our leaders still do not understand the importantance of preserving and being connected with nature. What will they directly DO to us (people)when all natural lands are used up and developeded?
Annette	Wade	NSW	2578		
Cathy	Hensen	Horsley	NSW	2530	We need to stop it now before our pristine eco-system ends up like parts of the USA, virtually uninhabitable
Timothy	Hopkins				
LORRAINE	STOTT	n.s.w.	2577		it is time that governments and associated authorities persue the policies which look to the future rather than buckling under to pressure from large interest groups whose only motivation is short term profit over long term sustainability of the environment. An environment which, if things keep going the way they are, will be poisoned and bereft of everything which makes life beautiful.
Steve	Harrison	Balmoral Village,	NSW	2571	

Caroline	Graham	NSW	2569		The possibility that the SCA catchments will be damaged is appalling. Woronora Dam is only 30% full while all the others are over 70% - its major source of water,Waratah Rivulet, is damaged, because your department is always pushing for mining in the Special Areas, shameful !
maggie	churchwardm	bowral	NSW	2576	
Julie	Bennett				
Barbara	Ballas	Bundanoon	NSW	2578	
Rosemary	Page				
theo	wallis	perth	wa	6161	Coal is a "no-go"!!!
helen	archer	yerrinbool	nsw	2575	
john	fisk	yerrinbool	nsw	2575	
LUENA	BETTRIDGE	BUNDANOON	NSW	2578	
D J	WARD	Bundanoon	NSW	2578	
Belinda	Cole	2204			
roslyn	weiley	woollahra	nsw	2025	
Julie	Schellack	Bundanoon	N S W	2578	
Gill	Evans	Woonona	NSW	2517	
Grant	Blanchard	Canyonleigh	New South Wales	2577	There are alternatives to power generation that do not harm our beautiful environment. Once damaged, it will never return to its pristine condition.
Jess	Moore	Wombarra	NSW	2515	
paulo	albertonq				
Cressida	McNamara				
Sarah	CAINS	Mittagong	NSW	2575	It is irresponsible in the extreme and foolish, short-termism to endanger yet more natural water and bushland resources in a search for substitutes to fossil fuels. Surely the Thirlmere Lakes example is sufficient to call a halt to this damaging activity.
Lucy	Bainger	2579			This is a voting issue for me - I'll vote for whomever is prepared to back alternative energy sources that don't mess with the environment. Australian governments are missing the point while the electorates are trying to be heard. Support people and the earth - not coal.
Dawn	Jonas				As coal seam gas exploration is so detrimental to the environment it would be untenable for this to go ahead in a catchment and conservation area.
Liam	O'Hara	NSW	2575		

Sarah	CAINS	Mittagong	NSW	2575	It is irresponsible in the extreme and foolish, short-termism to endanger yet more natural water and bushland resources in a search for substitutes to fossil fuels. Surely the Thirlmere Lakes example is sufficient to call a halt to this damaging activity.
Helen	Rix	Bundanoon	NSW	2578	
David	Gunn	Bundanoon	NSW	2578	
Alex	Wisser				
Sylvia	Robyn	NSW	2579		
zio	ledeux	erskineville	nsw	2043	this is appalling. no community consultation look at all the other sites that have been mined . WHAT AN ABSOLUTE DISGRACE. your profit our loss
Bruce	Legge	NSw			For goodness sake, stop risking our precious water and wildlife corridor
Karen	Gray				
Jan	Shier	Bundanoon	NSW	2578	
Brian	Rapsey	Aylmerton	NSW	2575	
Valerie	Parker	NSW	2508		
Roz	Fidge	Bundanoon	NSW	2578	
Hannah	Hall	Sydney	NSW	2226	
Mrs Kerry	Gunn	Bundanoon	NSW	2578	
Margot	Derwent	Bundanoon	New South Wales	2578	Did you not see the documentary "Gaslands"? There are sufficient toxins in the air that we breathe without knowingly creating more. Stay away ...
Christine and Barry	Rowell Miller	Bundanoon	NSW	2578	
Margaret	Symonds				
Sid	Seiden	NSW	2539		When are we going to learn from our mistakes !The reserve that is left is barely enough to sustain any habitat & to allow this to proceed in a water catchment area defies all logic - they are doing it to make money & for no other reason !!! We have the technology to provide ourselves with clean renewable energy so WHY WHY WHY ??? !!!
Patricia	Guy	Bundanoon	NSW	2578	
Alexander	Sima	nsw	2029		

Joe	Friend	Braidwood	N.S.W.	2622	In the drought, from 1991-2007 Sydney water was proven to have Giardia contamination, usually regarded by bushwalkers as having been brought-into catchments by itinerant workers(and walkers!); no drilling' will obviate future Giardia contaminations , by stopping people from 'using the bush as their toilet/s'- so typical of mining /exploration staff in my lifetime of experience! JAFriend,retired scientist.
Karyne	Gough	Wollombi	NSW	2325	It is unconscionable and completely irresponsible to allow another borehole in this area for all the known and widely publicised reasons.
Nicole	Luhrs				
Peter	Lach-Newinsky	Bundanoon	NSW	2578	
Toni	McLean	Moss Vale	NSW	2577	
Tony	Hill	Bundanoon	NSW	2578	
mignon	steele	Bellambi	NSW	2518	
Terry	Moane	NSW	2447		
thomas	goodman				
Keith	Horton	NSW	2519		
Mirjana	Koernicke	Stanwell Tops	NSW	2508	This area should never ever be used for commercial exploitation or development = to environmental vandalism
Thomas	Dash	Bowral	NSW	2576	
Harry	Koernicke	Stanwell Tops	NSW	2508	I totally agree with the concerns indicated
Greg	Morgan	Fairy Meadow	NSW	2519	
James	Murphy				CSG extraction is a "one-off" cash injection for the companies exploiting it, however changes the earth sub-structure forever. Future generations will have every right to call us stupid and greedy. We must say "NO" to CSG.
sue	johnson				
Dr Susan	Collingridge	2576			
Geoff	Byrne	Bowral	NSW	2576	The supply of drinking water for Sydney is far more important than the extraction os methane for spurious puposes. To permit this activity is nothing short of vandalism.

Trevor	Stephens	stanwell park	nsw	2508	The need to do this 'extraction' is NOT WARRANTED, NOT NEEDED, and in view of the long, long, long time IRREVERSIBLE DESTRUCTION of the environment, long after this company and this government have gone. If this goes ahead, in all ignorance of the environment, and the local population... EXPECT RESISTANCE, TROUBLE, and in the long term.. no FINANCIAL GAIN.. the 'Northern Alliance' will be active to stop this... and the mining under and through the aquifers DESTROYING THE DRINKING WATER... be told! Heed the warning!
Steven	Douglas				
Michael	McCarthy	Otford	NSW	2508	
Lynn	Oakey	Bowral	NSW	2576	
Maree	Byrne	Bowral	NSW	2576	
Nicola	Speer				
j	hazzard				
kim	martin	mosman	nsw	2088	
Karen	Barnett	Otford	NSW	2508	
Sean	Gough				
Owen	Bailey				
sue	lansdown	thirroul	nsw	2515	
Katharine	Clarke				
Ron	Moore	Revesby	NSW	2212	
Christopher	Gladwell				
Katie	Bligh	4000			
Celia	Lewis	Wollongong	NSW	2508	Please please do not approve further exploration in the area. Come and see the area for yourself and yhou bwill recognise its immense natural relevance for human, flora and fauna.
Clare	Tuckerman	North Wollongong	NSW	2500	It is the height of foolishness to prefer the interests of resource extraction over secure, clean water supply and the other ecological benefits which the Sydney Catchment provides. Coal seam gas extraction is unacceptable in our catchment - the risks to the environment and to human health are unacceptable. Protect our bushland, protect our water supply.
Annie	Morris Wieland	2780			
Nathan	Shoemark	Helensburgh	NSW	2508	

Ben	Carew	Bondi beach	Nsw	2026	Enough of dirty energy already! We don't want it, climateprogress.org
Michelle	Jarrett	Engadine	NSW	2233	
Martin	Thrower				
Ron	Hensen	Horsley	NSW	2530	
Robert	Cunnington	Stanwell Park	NSW	2508	We need to know more about this technology before allowing such projects to proceed.
Alan	Roberts	Bentley	NSW	2480	It's long past time to cut fossil burning, get efficiencies in place quickly and build renewable infrastructure fast. We can't afford contaminated water - it's far too precious.
Emma	Blair	Helensburgh	NSW	2508	
Millie	Robinson	Figtree	NSW	2525	Natural gas acquisistioning processes such as fracking are environmentally degrading. The Illawarra can benefit long-term from more environmentally sustainable economical initiatives such as eco-tourism, or simply tourism to the illawarra area in which we have beautiful rainforests, swamps, beaches and park areas. Recking the environment seems a pretty reckless thing to do, and in the case of fracking which gets into the table water and catchment areas- is directly bad for our health. This is not just an environmental issue but a health issue. Fracking is a poor practice, and i will do whatever is necessary to ensureor prevent such a practice from being implemented in the illawarra. Kindest regards, Millie Robinson
Angela	Simmons	nsw			Please stop condoning the pollution and destruction of our conservation areas
Peter	Watson	sutherland	nsw		this area should be protected from any mining
Sue	Wilmott	Blackville	NSW	2343	
Peter	Reed	Austinmer	NSw	2515	
Karen	Bursill	Helensburgh	NSW	2508	This will only have a long term negative effect on the local community
David	Cooke	Bicheno	Tas	7215	
Perry	Theophanous	Illawong	NSW	2234	Other countries that have mined this way have paid the price with devastation of the waterways and land. Why are we allowing this mad grab at cash at the demise of our pristine land and water? look at what happened in the USA, why have we not learnt by these mistakes?? Put the environment and people first!
Molly	Furzer	Enmore	NSW	2042	I ask the NSW Govt to place a moratorium on coal seam gas mining so that an investigation can be placed to discover any potential negative effects to the environment and wellbeing of residents.

Jackie	Boyce	Otford	NSW	2508	
Susan	Goldrick	Fairy Meadow	NSW	2519	
jane	taylor	Coledale	NSW	2515	It's my view that neither major party can be trusted to say NO to Mining Companies and make policy in the public interest. But I'm forced to plead with you not to allow this disaster to happen.
Anthony	Robison	Kiama Heights	NSW	2533	Thank you
Bruce	O'Connor	NSW	2422		It is unconstitutional to poison the population ! This type of extraction method is proven to reduce water quality and is a major concern for health authorities. gas migration is unavoidable and uncontrollable . Please use the precautionary principle whern cosidering this application, and also the future generations.
Alan	Terrell	Berrima	New South Wales	2577	
Malcolm	Fisher	NSW	2093		It seems extraordinary in this era of increased environmental awareness that are fragile water catchments, forests and bushlands continue to be pillaged and exploited for polluting short term vested interests. Sadly our governments appear so weak and compliant to this destruction.
Rosemary	Nankivell	Quirindi	NSW	2343	Scientific research into emissions must be done. We are all aware of the contamination and depletion of water tables and the extensive damage done to aquifers but claims made by gas companies that CSG will lower the GHG is erroneous and unproven.
Guy	Reynolds	2508			
Bernard	Jean	Tewantin	Queensland	4565	
Jonathan	Moylan	2303			Expansion of fossil fuel industries will lead to increased gas emissions. The government has no right to sabotage my future and that of those of millions of other young Australians. We need to transition as quickly as possible to renewable energy.
Marc	pop	bondi	NSW	2026	
Neville	Arrowsmith	Bellambi	NSW	2518	Save the environment
John	Shewan				Where is our obligation to the Lord Jesus Christ to love one another including having respect His Creation? The more we destroy what He has given us and ignore His commandments the more we deserve to incur His displeasure and exacerbate His auto-response (Catastrophic Climate Change). The True Believers look forward to the Destroyers receipt of their much deserved reward on the imminent return of Our Lord Jesus Christ. Bring it on.
doug	mclean				
Geoff	Brown				

Peter	Kennedy	Muswellbrook	NSW	2333	
scott	sledge	NSW	2480		CSG is a desperate foolish venture that risks the future for us all.
Mark	Bryant	Cloncurry	QLD	4824	It is time to stop these greedy maniacs from destroying our fragile environment (mining companies and governments et al). Only when we have cut down the last tree and killed the last river will we realise we can't eat money.
Graeme	O'Brien	Bulga	NSW	2330	
Karin	Hensen	Helensburgh	NSW	2508	CSG is not an alternative to coal. It will increase, not decrease, Greenhouse Gas emissions. The extraction of CSG using the highly contentious fracking technique has the potential to irreversibly contaminate our water supplies. Obviously opening cracks in the surface rock can only further exacerbate the loss of water from dams. Very recently its has emerged that despite one of the wettest years in a decade, water levels in Woronora Dam dropped from 41% to 33% from Jan 2010 to Jan 2011. It is the only main Sydney dam to record a drop; others in the same period have risen on average from 51% to 74%.
Cheryl	Pearson	Helensburgh	NSW	2508	Don't let them destroy everything around us, when we've fought so hard to save it from destruction. Mother Nature is trying to do it's best on her own!! PLEASE DON'T SUCK THE LIFE OUT OF THE VERY PART OF HER THAT WE NEED TO EXIST!!!
Jill	Hawker	Terrey Hills	NSW	2084	Food and water are limited resources on this planet and providing adequate supplies of both will be an increasing challenge. It is important that all planning takes into account our future food and water security as well as protecting our environment.
Maureen	Magee	Mangerton	NSW	2500	
Rachelle	Cameron				
Emma	Rooksby	Mount Pleasant	NSW	2519	
Caroline	Pontello	Helensburgh	NSW	2508	
John	Krey	Bulga	NSW	2330	
Fiona	Jarrett	Helensburgh	NSW	2508	APEX Must be stopped.....
Geraldine	Wood	NSW	2508		
ian	McLeod	Sth Aust		5277	Please slow down and do the science
Adrian	Scipione	Otford	NSW	2508	
Rosemary	Simmons	Otford	NSW	2508	
Robert	O'Connor				
Peter	Taylor				

mick	carroll	sydney	nsw	2508	this should not be allowed to be done any where near residential areas and risk peoples health just for a quick dollar.this stupid state labor goverment has let this happen. i will never vote for them again in my lifetime.
Michael	Ehrlich	Helensburgh	NSW	2508	
Bernie	Baer	Otford	NSW	2508	
Greer	Taylor	Figtree	NSW	2525	
Kate	A				
Amanda	Groves				
Karen	McDougall	Otford	NSW	2508	Keep our drinking water clean don't contaminate it!!!!!!
Brenda	Dobia				
Adam	Jarrett	Sydney	NSW	2508	This type of mining has failed by poluting the ground & water table in the past, why are we letting this happen in the Illawarra not to mention next to the oldest national park in the world the(Royle National Park).If this goes ahead it will be the begining of the end of this natural beauty.Adam Jarrett
Carolin	Window	Darlinghurst	NSW	2010	
Dr Adam	Lucas	Sydney	NSW	2203	The inappropriate haste with which these approvals for coal seam gas exploration have been granted clearly indicates that NSW Labor has completely lost touch with the public interest, and cares only about supporting its industry and union mates, while lining its coffers with mining industry and coal union donations. Show some gumption, stop approving these applications, and start developing an ethical energy policy that moves us away from fossil fuels as a matter of urgency.
julie	jackson	boonah	qld	4310	
Bill	Cashman				
tracey	noonan	nsw	2508		
paola	cassoni	alpha	qld	4724	
yoshie	mcdonnell				
keri	james				
Rob	Fakes	Stanwell Park	NSW	2508	
Jaden	Harris	NSW	2099		
W.	Fuller	Mollymook	NSW	2539	This is insanity!
Ulrike	Schnabel				
Amanda	Harris	2515			
John	Spira	Austinmer	NSW	2515	

Valerie	Perfect	STANWELL TOPS	NSW	2508	Does anyone in Government who gives approval to these Companies for coal seam gas exploration and extraction really care about the environment especially in such pristine areas and Sydney drinking water catchment area?
zio	ledeux	erskineville	nsw	2043	this is wrong. it has been shown to have a major impact on the environment , peoples livlihood and the drinking water of hundreds of thousands of people. THIS SHOULD BE ILLEGAL!
Ray	Robinson	Corrimal	New South	2518	The ALP State government is not serving or protecting the people and voters of New South Wales by destroying Australian public ownership of energy and placing it in the hands of Communist China, via Hong Kong, and also putting at risk the food chain security of Sydney and the Illawarra, via water resources. Ministers - you do not have a mandate to disenfranchise voters and our future by these rapacious acts.
Samantha	Lucas	Canberra	ACT	2612	If as much money was put into Renewable Energies we would not have to continue digging holes throughout our beautiful land for more mines!!!!
Robert	Evans	Bulga	NSW	2330	We are going through the same coal gas extraction issues in the Hunter Region & I would hate to see a pristine area such as this damaged perhaps forever as a result of coal gas exploration & future possible commercial extraction. The time has come when we must stop raping the environment!
Kim	Hann	Broke	NSW	broke	I would also like to add that coal seam water also contains large volumes of heavy metals including, but not limited to, cyanide, arsenic, mercury, lead and cadmium - which accumulate in sediments and then bio-accumulate in the food chain. Along with this, there are also high amounts of radioactive substances including - but not limited to - radium, uranium and strontium. These heavy metals and radionuclides do not belong in or near drinking water supplies.
Sabrina	Barry	Woollahra	NSW	2025	
robert	barry	Woollahra	NSW	2025	The State Government needs to urgently map the States land to ensure the States most productive land is protected.There is a need to undertake an independant study on the effect of CSG mining on aquifers and water contamination.
Nicholas	Watson	Otford	NSW	2508	please stop any mining or gas mining in our conservation areas - we must preserve the bushland for our air, water and future
Lee Tran	Lam	Ashfield	NSW	2131	
Liane	Rossler				
Ben	Watson	Otford	NSW	2508	please don't let these csg companies destroy our bushland or poison our water
Fiona	Martin	Thirroul	NSW	2515	

Raymond T	FROST	Surtton Forest	NSW	2577	Dear Ministers, I object to Apex Energy 's plans for an additional gas borehole - AI19 on Sydney Catchment Authority, drinking water catchment and pristine bushland This and the other 15 Apex boreholes should never have been approved for exploration. Apart from the extensive bushland clearing and risk of pollutant waste water, exploration will lead to applications for commercial extraction - an enterprise that should never be allowed in such a highly biodiverse conservation and water catchment region. The risk is far too great .
Andrew	Murphie	Sydney	NSW	2041	
Jennifer	Harley				I am extremely concerned at the lack of political vision & leadership in regard to preserving our water resources and agriculutral land across our State & Nationally.
isabel	mcintosh	2015			
Julie	Reed	Austinmer	NSW	2515	
Angela	Fagerstrom	Helensburgh	nsw	2508	how is the waratah rivulet? need we say more.
Toni	Porter	ST PETERS	NSW	2044	
Maurice	Dowson				The film GasLands exposed the hitherto unrecognised risks to public health, drinking water supplies and un-audited releases of methane to the atmosphere.Methane is more than 20 times more potent as a Greenhouse Gas than CO2, thus a dangerous contributor to Climate Change, and the IPCC should be called upon to quantify and comment on, methane releases from the thousands of 'fracked' drill sites in the USA.Clearly, 'fracked' seams can release uncollected methane and toxic chemicals over large areas, and over the 'longer-term', in an uncontrolled manner, even AFTER commercial extraction/collection of methane has ceased.The general public will be horrified to learn of the risks to their drinking water supplies sourced from the Illawarra Escarpment areas.Who will be held responsible, and accountable, for subsequent public health problems (should they arise), and with what penalties if litigation ensues, perhaps through 'Class Action'?
Rebecca	Bower			2131	
Jana	DeGrand	76226			
Cherie	Saxby			2170	
Stefanie	Leung				
Robin	Benton	NSW	2773		

Wayne	Reid	Sunshine Coast	QLD	4552	
Alison	Gorddard	Rothbury	NSW	2320	
Kim	Tilley	Abbotsbury	NSW	2176	We need to preserve the few pristine bushland areas left in the Sydney region, not exploit them! In addition the detrimental risk incured by such exploration methods to the Sydney catchment, far outweighs financial gain!
Kade	Smith	Thirroul	NSW	2515	
Sarah	Moles	Goomburra	Qld	4362	
Anne	Picot	NSW	2044		it is a shameful not to mention dangerous gap in our planning processes that exploratory mining/drilling action is not subject to environmental controls
Denis	Wilson	Robertson	NSW	2577	The Board of the SCA does not support drilling in the Catchment. Why is this application being progressed? Drilling through the aquifers int he Catchment will contaminate the water supply for Sydney. How stupid are you, if you even consider this application? Disallow it now.
julie	white	Vic	3109		
Anna	Keohan	MARRICKVILLE	NSW	2204	NO MORE drilling for fossil energy, ALL money and efforts should be directed towards developing sustainable energy sources NOW! It CAN be done, and we can't wait anymore ... until our environment is devastated, our health compromised, our future uncertain ... and the legacy we leave is poisoned by our greed and short-term "quick fixes" now.
Rosalind	Warden				This industry is not clean and it is not green. It cannot be allowed to proliferate anywhere near Sydney or other populated or productive areas. The risks are too great, and the processes and repercussions not fully understood. Have some courage and stop this development.
Juraj	Chmelik				
Annie	Wright	Sydney	2044		
Meg	Leathart				This plague is all over our state and threatening what little biodiversity remains. It is short term gain with long term consequences. We had an exploratory bore dug in the pilliga forest. We had heavy rain and the tailings dam broke. This saline and polluted water killed a large area of what was healthy forest. This was only for exploration! Apex energy needs to move into renewable forms of energy and get out from the grip of the fossil fuel monster!

sharyn	cullis	Oatley	NSW	2223	I cant believe the short term stupidity of governments who pursue anything other than passive, clean renewable energy sources! Coal Seam Gas is not a viable alternative to coal. Its extraction causes the disturbance and poisoning of groundwater. This whole proposal in a drinking water catchment is wrong, wrong, wrong. How about a simple answer to my simple question. What do you think is more important, drinking water or coal seam gas?
Carol	Brandman	NSW		2508	These types of applications in sensitive areas should never be allowed as the risks are too great.
zio	ledeux	erskineville	nsw	2043	
Sally	Chapman	Wauchope	nsw	2446	
Francis	Fielding				
Adele	Carrall	NSW		2423	
Kim	Feil				
Natasha	Watson	Otford	NSW	2508	It is ridiculous that Apex Energy were ever granted approval to explore for csg in such precious conservation areas, especially since the next step = commercial, would be disastroys for the region

Clay Preshaw - Apex Energy 16th Borehole Application - False data claims invalidating 16th borehole application and project

---

From: "Greg Petty" <gapetty@bigpond.com>
To: <Clay.Preshaw@planning.nsw.gov.au>
Date: 7/25/2011 2:57 PM
Subject: Apex Energy 16th Borehole Application - False data claims invalidating 16th borehole application and project
CC: <information@planning.nsw.gov.au>, <wollongong@planning.nsw.gov.au>, <Brett.Whitworth@planning.nsw.gov.au>, <heathcote@parliament.nsw.gov.au>, <leeevans@bigpond.net.au>, <Michael.Bullen@sca.nsw.gov.au>
Attachments: L110621.pdf; Apex Dr Short Email.pdf; Apex Babister Comment 16th Amendment.pdf; DOC200711-20072011163920.pdf

---

The Director General
N.S.W. Planning – Head Office
23-33 Bridge Street
(GPO Box 39)
Sydney NSW 2000

Attention: Mr. Clay Preshaw

Dear Director General,

Subject: **Additional Borehole Modification (Apex Energy)**
Illawarra Coal Measures - The proposed modification involves an additional exploration and gas monitoring borehole with associated infrastructure and site access.

I note the **Additional Borehole Modification (Apex Energy)** is still under review pending Minister approval.

As I submitted an application for comment on this modification, I seek leave to amend my application with additional supporting data just available.

The data supplied to support the Apex Energy Additional Borehole Modification Environmental Assessment application is now deemed to be ***FALSE***.

To support this claim, I enclose an email (Apex Email Dr Short.pdf) sent by the Apex consultant responsible for preparing the section of the Environmental Assessment upon which the Department is currently evaluating the modification; *"were incorrect as you identified at last Friday's meeting"* and *"the durations were one and two hours (respectively) – not the 6 and 10 hours stated, and the estimated runoffs (after allowing for an appropriate initial and continuing loss) were mistakenly quoted as the rainfall".* In short and as incontradictable support of the false information; *"I accept full responsibility for missing those errors as I had actually reviewed that part of the EA before release".*

The consequences of these cumulative errors are a failure "*would correspond to a failure of the at site bunding on average every 61 days instead of the 20 years presented in the Environmental Assessment".*

This statement is in respect of the original Environmental assessment for the Apex Energy 15 bore holes. The full hydrologists report upon which the above is based is attached (L110621.pdf).

In order to state the application for the A**dditional Borehole Modification (Apex Energy)** is also incorrect, I refer the Department to compare the two Apex Environmental Assessments for this same project. Both applications use a generic 42mm rainfall. However in further correspondence with an independent hydrologist, the actual rainfall for the **Additional Borehole Modification (Apex Energy)** is indeed 146mm, not 42mm in the report. This correspondence is attached (Apex Babister Comment 16th Amedment.pdf).

The consequences of the incorrect data set used are exponentially significant. I quote the report of WMA Water: "*The IFD estimates presented in APEX Energy NL Environmental Assessment are grossly in error and significantly underestimate the 20 year 6 hour volume. While there is insufficient information in the Environmental Assessment to reliably determine the impact of this assessment on bunding performance the 42 mm value presented in the report would correspond to a failure of the at site bunding on average every 61 days instead of the 20 years presented in the Environmental Assessment".* In straight mathematical terms, instead of one in 20 years, the breach would occur 120 times in 20 years. This is extremely significant given the location of the borehole to the Sydney Catchment Authority land and the adjoining Woronora Dam.

This error has NOT been previously detected by the Department of Planning in its own report, "***MAJOR PROJECT ASSESSMENT: Apex Gas Exploration Project (07_0103)*** *Director-Director-General's Environmental Assessment Report Section 75I of the Environmental Planning and Assessment Act 1979 September 2009".*

In the Executive Summary of this Major Project Assessment, it states, *"The Department has assessed the project application, EA, submissions on the project and Apex's response to submissions in accordance with the relevant requirements of the EP&A Act, including the objects of the Act and the principles of ecologically sustainable development. Based on this assessment, the Department is satisfied that the project can be managed in a manner that would not result in any significant impacts on the environment or surrounding land owners".*

Furthermore at ***"3.6 Statement of Compliance*** *Under Section 75I of the EP&A Act, the Director-General's report is required to include a statement relating to compliance with the environmental requirements for the Project. The Department is satisfied that the Director-General environmental assessment requirements have been complied with".*

Clearly on the basis of the errors in the Environmental Assessment, the Department cannot claim to have adequately and competently conducted a specialist review of the report when the applicant is now stating it has "*missing (sic) those errors".* As the residents have been contending, there will be a significant impact on the environment and surrounding land owners, a statement that the Department cannot claim now to be true.

<u>I request the approval the 16th borehole be refused based on the false information provided by the applicant</u>.

In support of this request, I refer the Department to the advice obtained from the Environmental Defenders Office (EDO) dated 20 July 2011 (DOC200711-20072011163920.pdf) wherein the EDO advises the Department *"In relation to the PELs granted, it would be difficult to prove the total*

rainfall estimates in the Assessment were made with actual knowledge that they were false or misleading. It may be easier to establish or infer knowledge in relation to the current borehole application before the Department of Planning as Dr Short has admitted the falsity in relation to the March 2009Assessment and should make amendments to any current applications"

Should the Department be unwilling to act, the residents note the advice under the heading *"Private Prosecution in the Local Court".*

I request the approval for the Apex 15 boreholes be suspended pending further investigation. I would appreciate to meet the Department and Minister as a review of the Petroleum Export License (P.E.L) has similarly been breached as well as other errors of fact have been uncovered during our investigation.

As the Department will acknowledge, there has been considerable disquiet by the community surrounding the transparency of the Coal Seam Gas industry and the previous government policies. In light of Apex's consultant's admission of the error in the Environmental Assessment, given the time lapse between the acknowledgement of the error and the Amendment Application, has Apex notified the Department of the errors in both EA's?

I look forward to your prompt reply given the significance of the area upon which work is contemplated.

Yours sincerely
Greg Petty
130 Walker Street
Helensburgh NSW 2508
(0407) 473 889

25 July 2011