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Project	Gloucester Gas Project	From	Michael Ulph
Subject	Community Consultative Committee	Tel	4941 2841
Venue/Date/Time	Thursday 13 <sup>h</sup> October 2011 Gloucester Country Club, 10am – 12pm	Job No	21/17714
Copies to	All attendees		
Attendees	Ian Shaw – AGL Lands Officer Toni Laurie – AGL Land and Access Manager Mark Bonisch – AGL Operations Manager Kate Harper – AGL Geologist Ben McVeigh – AGL Geophysicist Rod Williams – Community Representative Anna Kaliska – Mid Coast Water Clr Paul Hogan – Mid Coast Water Clr Karen Hutchinson – Great Lakes Council Clr Gerry Germon – Gloucester Shire Council Garry Smith – Barrington, Gloucester, Stroud Preservation Alliance Ed Robinson – Lower Waukivory Residents Group Michael Ulph – GHD (Facilitator) Lilen Pautasso – GHD (Assistant Facilitator)	Apologies	<b>Naomi Rowe</b> <b>Sally Whitelaw</b> <b>Marnie Johnson</b> <b>David Mitchell</b> <b>Tim Hickman</b> <b>Terry Kavanagh</b>

Topic	Action
<b>1. Michael Ulph</b> <i>Welcome and Acknowledgement of Country</i>	
<b>2. Meeting agenda</b> <ul style="list-style-type: none"><li>• Matters from the previous meeting (including actions)</li><li>• Project Update</li><li>• 3D Seismic presentation by Kate Harper (AGL Geologist) and Ben McVeigh (AGL Geophysicist)</li><li>• Community and Stakeholder Engagement Plan</li><li>• Youth Mentoring</li></ul>	



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### 3. Actions from the previous meeting

AGL clarified the action regarding the use of the term 'exclusive' in relation to CCC members. Mark Bonisch and Ian Shaw clarified that it was fine for a representative to be part of the CCC meeting, however the intention is not to have an alternate group delegate occupying committee time being updated on previous discussions. The regular representative is responsible for this update prior to the meeting. The CCC is able to determine other potential groups to be represented and select a representative.

**Toni Laurie to prepare a response to the CCC question regarding control measures proposed for groundwater with high salinity. This should include a number of options for managing the water.**

**AGL to clarify terms of reference.**

**Naomi Rowe to follow-up the 'arbitrary' complaints management query from the previous meeting.**

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### 4. Project Update

Toni Laurie briefed the CCC about the seismic work as part of the overall Gloucester project. AGL are currently in the stage of receiving access approvals and land approvals for the work from affected landowners. The seismic surveys were approved and it is estimated that in a week to 10 days AGL will start intrusive work to get access to those sites.

**AGL to implement a method to improve the clarity of the term 'Waukivory' so that there is no confusion in the communication.**

**CCC: can we change the term 'Waukivory to make it less confusing?**

AGL agreed to investigate whether this was possible.

Toni Laurie explained some of the details for the project for 2012 including surveys and irrigation trials. The latter will require approval and so it is anticipated it will start next year.

**CCC: Where will this work be done?**

Toni explained that they will be working more towards the southern area of the project however this is subject to change. There are a number of options but the properties identified as requiring the work have been confirmed.

**CCC: Will there be a Christmas break or will you work through the holidays?**

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Mark: There will mainly be seismic testing during this period however there may be a 10-14 day break over the Christmas and New Year period.

**CCC: Do you have maps of the areas you will be looking at to show?**

Yes.

Toni Laurie and Kate Harper demonstrated the seismic map and explained the different locations for seismic testing.

**CCC: So, in the last fortnight have there been any changes in your plans, including the pipeline?**

Toni: No. The pipeline has been approved by the government and hasn't changed.

**CCC: I've had people tell me that they have been told the pipeline route has changed.**

Toni: This is not true because the government has approved the pipeline location under part 3A. I can guarantee that any changes would be mentioned to the CCC before any decisions were made or approvals sought.

Toni Laurie stressed that this information was not true and advised that if the CCC have any concerns whatsoever that they endeavour to tell the local AGL members so that complaints don't go through long processes.

**CCC: It would be good if AGL could make sure that, if confusion like this is occurring that they advertise or buy a spot in the paper. There is not enough advertising or media presence. You need to be on the 'front foot' and you need to do the right thing by the community as well as your CCC members.**

AGL assured the meeting that the pipeline plans have not changed and that, should any changes be required the CCC would be the first to know. AGL also mentioned plans to develop a greater presence in the media.

**CCC: There has been one complaint that I've heard of. Has that been dealt with?**

Toni Laurie: Yes it has.

Toni explained the details of the Stroud Road meeting and how the complaint mentioned was lodged to AGL. Toni explained that this complaint was sent to the head office (not local office) and referred to a

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landowner who claimed he couldn't sell his property due to the project. Toni explained that this property was not affected by the project and that the concern was brought about as a result of the meeting. The complaint has since been dealt with and the landowner received a personal response immediately.

**CCC: That's excellent and I accept that. But when you hear this through the community you start to get really concerned and you start to doubt yourself. The reason for this is because you have two influences – the direct influence of this project and then the amount of information out there about the issue. It's often hard to keep track and to know what's true when hearing the discussions with the community.**

Mark and Toni expressed that AGL will need to aim towards ensuring that the right information is out there so that that confusion doesn't occur and there isn't as much concern. Toni confirmed that this is something that AGL is developing and spending a lot of time developing through the CCC and focus group meetings.

In order to address the concern expressed by members of the CCC Toni offered to show them a map of the confirmed pipeline route. The CCC accepted this offer.

Toni explained the location of the pipeline by demonstrating it on a map and indicating key locations. Toni also explained Black Camp Road will be upgraded for access to lay the pipeline in the area. Some members of the CCC enthusiastically received this information about the upgrading of the road. Toni also highlighted that other members of the community were pleased with this upgrade as indicated on some of the easement agreements received by AGL this month.

**CCC: Why are you crossing over Stroud road?**

This is to avoid the river crossings and it was deemed to be better from an environmental perspective to avoid these areas.

**CCC: How far away is the groundwater study?**

It is somewhere around November but I would have to clarify that.

Mark Bonisch went into detail about the irrigation trials and how they would run. CCC members indicated a desire to know a bit more about the irrigation trials.

**CCC: So, what is your time frame for the whole project?**

Toni: Unfortunately it's hard to say because it's basically unknown. As outlined by the Department we have 5 years to commence the project otherwise it lapses. Our current plan is commercially driven and depends on the gas supplies and demand. Overall there are contracts involved with gas so it will be based entirely on when the gas is

**AGL to circulate hard copies of the maps shown during the CCC meeting. These maps are of the pipeline location and the 2D seismic testing areas. AGL to add town names and key locations for easy reference.**

**AGL to clarify the dates of the groundwater study.**

**AGL to provide the document that is currently awaiting approval to interested CCC members.**



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required. In saying that, the power generation is there and so it may be the first thing we kick start. At this point it is a little unknown.

Mark: And this is something that would be clarified with the conditions of consent.

**CCC: So you've got a couple of years still to go?**

Toni/Mark: Yes, definitely and we have numerous conditions to adhere to and approvals to obtain before the project can commence. So within that 5 year period we will seek to obtain approval and meet those conditions so that we can work towards that 5 year timeframe.

**CCC: What happens if the department gives you more conditions?**

My understanding is that the commencement of the project is defined in the conditions of the approval. In terms of the management plans we can't do anything without prior approval so if there are more conditions than those AGL will have to meet those conditions. We can't start anything until it can be proven that we have met those conditions.

**Meeting break commenced at 10:15am.**

**Meeting recommenced at 10:20am.**

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**5. 2D and 3D Seismic testing presentation (Kate Harper and Ben McVeigh)**

Michael Ulph introduced Kate Harper and Ben McVeigh from AGL who presented about 2D and 3D seismic testing. CCC members were shown a detailed presentation that included images of geological formations, models and results of the different seismic testing types.

**CCC: How accurate is the 2D data?**

Ben: When you get this data it is highly interpretive and so you can get completely different results. The problem is if you don't record good data and don't process it with an open mind it can be wrongly interpreted.

**CCC: How do you interpret this with a swept preference?**

. By changing the frequency range in recording (sweeping), We control the resolution of data that goes into processing Different frequencies show different seismic characters.

**CCC: Do you use any explosives during this testing?**

No. Because of the level of penetration that we require and the locations that we are investigating we do not require any of this. We don't use any dynamite.

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**CCC: Those images you have up on the screen, do they pick up any water?**

No it's purely geological. All these pictures are picking up are the changes in densities between various different structures in the profile

**CCC: How does it compare to other testing?**

There are many benefits. 2D is cheaper, it's quicker and it requires fewer shots into the ground to obtain the data. 3D is great because you get more qualitative information. 3D allows you to see the geological formation between the lines that the 2D picks up. 3D gives you a lot more information and a better understanding of the area.

**CCC: So what are the dark shaded areas? Are they coals?**

Yes, that's right. We have to do more investigations to get that information but yes, they would be the coals.

**CCC: Is the top of the cube the surface?**

No, at the surface you can only record pure noise. This image is about 1.2 kilometres deep.

**CCC: What area does that cube represent?**

It's about 10 kilometres by 5 kilometres.

Ben explained that testing goes over a long period of time to ensure there is a clear understanding of the geological formations. The information from one location isn't necessarily the same at another location so extensive testing will be done for the project.

**CCC: In the areas where you do 2D testing, does that mean you won't be drilling there?**

No, not necessarily. Because we do 2D doesn't mean we don't drill there, but testing would be undertaken to decide whether drilling is required in that location.

Kate explained the coal seam model. The model shows a number of faults due to compression. This model indicates where you can drill and provides more confidence when drilling.

**CCC: And the scale is about the same? 10 kilometres?**

Yes, it's a little bit shorter but roughly yes.

**CCC: What sort of thickness are you looking at there?**

It will vary in different areas; the thickness hasn't been incorporated into that model. We can't use the seismic tests to find out the thickness of the seams. As we drill we gather more data and can have a better understanding of the thickness of the coal seams.

Kate discussed the 'slip faults' and 'thrust faults' that form due to compression. These faults are indicated on the model. Kate went on to explain the 'cartoon' cross sectional model of the geological

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formations. Ben explained that the faults move laterally which means that the coal seams don't move too much. The orange zone indicated on the fault model was identified as the 'target zone' for the project.

**CCC: When you're talking about fracking and other drilling. Can you be sure that migration won't happen?**

The basin is in compression and it is assumed that this regional stress is forcing the faults to be sealed shut.

We drill with fluid that keeps pressure on the formation so no gas will flow. After the well is drilled it is lined with steel casing which is pressure cemented in place up the annulus. This isolates different geological formations that the well intersects.

Coal is softer than the surrounding rock and has natural cleats and fractures. When fracture stimulating coals the fluid pumped into the formation takes the path of least resistance which is along these natural cleats and fractures within the coal. The frac job is carefully designed and monitored so that fractures into the surrounding rock is minimised.

**CCC: How long does it take for a migration movement?**

Natural migration of gas is a million-year movement.

**CCC: So this won't change during the times that you're testing?**

No not at all. The main migration period has actually passed so this won't happen during the testing phase for the project. So what we're talking about here is that we don't really have migration because we're targeting the coals.

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**6. Stakeholder Engagement Management Plan (SEMP) –  
Presented by Toni Laurie on behalf of Naomi Rowe**

Toni explained how the SEMP was discussed with the CCC at the previous meeting. Toni went on to explain how the CCC requested separate focus group sessions to occur in order to further develop the SEMP. Toni outlined how these requested focus group sessions were run by GHD and presented a Powerpoint slide of the findings.

Toni also explained that the final draft of the SEMP is not ready due to extra work required and an additional focus group session planned for Stroud Road. This focus group was organised after AGL identified a gap in consultation with Stroud Road.

**CCC: In response to your presentation we're happy that AGL are providing information however, in saying this, the community**

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**also has a responsibility to keep informed. We can have this in place but if they don't put in the effort there's no more excuse.**

Toni: yes, but we are making sure that we have implemented the right communication styles so that we capture everyone.

**CCC: I went to the first session and the feeling was that everyone thought the project started really well but then it went downhill.**

Toni: Yes and that's what the results have captured. We understand this is a significant issue and from this point forward we are using this feedback to get it right.

**CCC: Can I suggest that the final draft SEMP is sent to the CCC before the next meeting?**

Toni: Yes. 4<sup>th</sup> November is the date we're aiming to get this to the CCC in time for the next meeting.

**Michael Ulph (GHD)  
to speak with Naomi  
to ensure the final  
draft SEMP is  
distributed  
appropriately**

**CCC: If the CCC is happy with the plan, where does AGL stand in being happy with this?**

Mark: This plan will be signed off and will be approved at a local level and then it will go up to a higher level.

**CCC: So a higher level can't turn around and say 'no' to this plan?**

Mark/Ian: No because they're not here. We're here. We've pushed for this ourselves and have taken a totally different approach by engaging someone to help us to get this right. We want this to happen and we want it to succeed which is why it's important to us.

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## **7. Youth Mentoring**

Ian Shaw explained the youth mentoring program and discussed the aims to assist young people in the community.

**Meeting closed at 12:15pm**

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## **10. Next meeting**

17<sup>th</sup> November, 2011.

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**Michael Ulph**

**GHD – Stakeholder Engagement**