

# MEETING MINUTES



MINUTES OF: Arrow Surat Community Reference Group  
 HELD AT: Toowoomba Regional Council Library  
 DATE: 26 May 2016  
 COMMENCEMENT TIME: 9.00am

<b>Present:</b>	<p><b>Carey Bradford</b> – ATP Compliance Manager  <b>Simon Gossmann</b> - Groundwater Manager  <b>Peta Tucker</b> – Community Relations Manager</p> <p><b>Ian Hayllor</b> – Landholder  <b>John Hughes</b>- Project Officer CSG Compliance Unit; DNRM  <b>Cr Nancy Somerfield</b> - Councillor, Toowoomba Regional Council  <b>Trudi Bartlett</b> – Member Services Manager, Dalby Chamber of Commerce  <b>Matt Paull</b> – Policy Director, APPEA</p> <p><b>Presenters:</b>  <b>Darryl Phillips</b> – Maintenance and Asset Power Manager  <b>Suzanne Ferguson</b> – Principal Government Relations Officer  <b>Nick Gifford</b> - Environmental Lead Well Delivery and SNB  <b>Brydie Hedges</b> – Community Engagement Lead (Member of AIFL Committee)  <b>Richard McLean</b> – Senior Land Liaison Officer ( Member of AIFL Committee)  <b>Chris Wicks</b> – Development Planner (Member of AIFL Committee)</p>
<b>Apologies:</b>	<p><b>MINUTES: Tania Marshall</b> - Secretariat</p> <p><b>Jordan Peach</b> – Australian Lot Feeders Association, Mort &amp; Co – proxy provided, however unable to attend  <b>Mary O'Brien</b> – Regional Manager, Cotton Australia  <b>Graham Clapham</b> – Central Downs Irrigators Ltd  <b>Lee McNicholl</b> – Chair, Basin Sustainability Alliance  <b>Pat Weir MP</b> – Member for Condamine  <b>Sarah Due</b> – Regional Manager, Agforce</p>
<b>CHAIR:</b>	<b>Leisa Elder</b> , Vice President External Relations and Tenure Management
<b>DISCLOSURES</b>	None recorded

	<b>Joint Meeting - ASCRG &amp; AIFL Committee</b>	<b>ACTION/ SUGGESTIONS</b>
<b>ITEM 1</b>	<p><b>Welcome – Leisa Elder</b></p> <ul style="list-style-type: none"> <li>Leisa Elder welcomed attendees</li> </ul>	
<b>ITEM 2</b>	<b>Safety moment – Skin Cancer – Chris Wicks</b>	
<b>ITEM 3</b>	<p><b>Arrow Update – Leisa Elder</b></p> <ul style="list-style-type: none"> <li>As part of the senior management changes under the Shareholder Agreement, a new Chief Operating Officer, Ivan Tan, will commence next week.</li> <li>Current COO Mike Grieve will be working for Shell Australia, based in Perth as VP Non-Operated Joint Ventures reporting to the Shell Australia Country Chair</li> </ul>	
<b>ITEM 4</b>	<p><b>Project Update – Dave Munro</b>  <b>Daandine Expansion Project:</b></p> <ul style="list-style-type: none"> <li>Provides a 60% increase in Daandine CGPF production capacity.</li> <li>All three new compressors are now fully commissioned, handed over and the plant is running in steady state. This will boost operating capacity by about one-third.</li> <li>Project temporary office facilities have been demobilised.</li> <li>Flaring occurred through commissioning of the new compressors.</li> <li>Neville Wirth (AIFL Committee) asked if the gas produced was going to export. Dave Munro advised that some would be for export and some for domestic use.</li> </ul> <p><b>Kogan North Field</b></p> <ul style="list-style-type: none"> <li>Completed drilling nine 'twinned' wells on 3 May 2016.</li> <li>Completion of the wells is planned to commence late May 2016.</li> <li>Surface facilities construction will commence in Q3, 2016.</li> <li>The wells were twinned using existing well pads and targeting different coal seams.</li> <li>Ian Hayllor asked if the wells were still in the Walloons. Dave advised that they were just targeting the Juandah and the Taroom coal measures.</li> </ul>	

	<p><b>Meenawarra Pilot</b></p> <ul style="list-style-type: none"> <li>• This is in old pilot with pipelines back to Tipton.</li> <li>• It has been historically difficult to operate.</li> <li>• Arrow will be restarting the well in order to gain more production data.</li> <li>• The well will start pumping week commencing 30 May 2016.</li> <li>• Trudi Bartlett asked if this work would require further staff. Dave Munro advised that it was within existing contracts.</li> <li>• Ian Hayllor asked where the pilot was connected to. Dave Munro advised it was connected to the Tipton Field.</li> </ul> <p><b>Braemar 2 – Darryl Phillips</b></p> <ul style="list-style-type: none"> <li>• Currently undertaking major overhaul.</li> <li>• This is the first overhaul of this nature.</li> <li>• Overhaul scheduled to take 43 days and nights.</li> <li>• At peak of workforce there will be 60 contactors on site.</li> <li>• A de-stacking shed was constructed to move the turbine into for the overhaul.</li> <li>• The majority of the workforce is from Australia; with Siemens specialists from Germany providing technical instruction.</li> <li>• Temporary site works and facilities have been constructed on site.</li> <li>• Safety performance – two minor first aid cases.</li> <li>• Chris Wicks asked how much power the plant generated. Darryl Phillips advised it was a 450MW plant. Producing enough electricity to power 45,000 houses which is about 6-7% of Queensland’s power needs.</li> <li>• Nev Wirth (AIFL Member) asked what is the expected life of the maintenance? Darryl Phillips advised that this was a 45,000 equivalent operating hour maintenance. The turbine would have another overhaul at 84,000 hours. The planned life of the plant is 30 years. Also have a process of circulating refurbished parts to other turbines as required</li> <li>• The next major outage would be 2019-2020.</li> <li>• Nev Wirth asked if the plant could be monitored for efficiencies and efficiencies gained also through minor maintenance activities eg hand washing of blades. Darryl Phillips advised the plant is continually monitored for efficiency and performance. Part of recommissioning is to compare results to those prior to the shutdown.</li> </ul>	
<p>ITEM 5</p>	<p><b>Project Update – Planned Engagement – Brydie Hedges</b></p> <ul style="list-style-type: none"> <li>• Proposed community engagement sessions to be held in late July 2016 in Wandoan, Miles, Chinchilla, Dalby and Cecil Plains.</li> <li>• These engagement sessions are to provide an update on Arrows operations including:             <ul style="list-style-type: none"> <li>○ Ongoing domestic gas activities</li> <li>○ Planned survey activities – ecology surveys across the basin</li> <li>○ Research including Lone Pine Interconnectivity Trials and Tipton Seismic survey findings</li> <li>○ Ground Water Monitoring Bore program.</li> </ul> </li> <li>• Nancy Sommerfield asked how these engagement sessions would be advertised.</li> <li>• Brydie Hedges advised that advertising in local papers, local community newsletters, mail outs and emails to landholders would be undertaken.</li> </ul>	
<p>ITEM 6</p>	<p><b>Water monitoring – Simon Gossmann</b></p> <p><b>UWIR -</b></p> <ul style="list-style-type: none"> <li>• Simon Gossmann provided an update on the UWIR from 2012. Arrow was required to undertake monitoring at 11 sites with 29 monitoring points.</li> <li>• The 2016 UWIR requires Arrow to undertake 11 monitoring sites (some sites have changed or have been delayed) and 30 monitoring points in 2016. 4 sites have been completed with 8 still to be done.</li> <li>• There can be several monitoring points within a physical site.</li> <li>• There has also been a request to install 4 sites by 2018. One of these sites has been completed.</li> <li>• One site at Wandoan has been delayed.</li> <li>• A question was raised if the Springbok Sandstone is in contact with the Walloon Coal Measures – The Springbok overlays the Walloons except where it has been eroded. At many locations the Springbok Sandstone has a very high content of mudstone and siltstone with very low permeability. This tends to locally isolate groundwater contained in the formation.</li> </ul> <p><b>In response to a query at the March meeting from Lee McNicholl re depths for the UWIR monitoring site 28 -</b></p> <ul style="list-style-type: none"> <li>• Located 14km west of Dalby.</li> <li>• 2012 UWIR required 4 monitoring points             <ul style="list-style-type: none"> <li>○ Springbok Sandstone and Walloon Coal Measures (3 monitoring points)</li> </ul> </li> <li>• 2 monitoring bores already drilled and completed</li> <li>• Springbok Sandstone was not present so 2016 UWIR moved this monitoring</li> </ul>	<p><b>Provide information to Lee McNicholl – Tania Marshall</b></p>

	<p>point to site 29 to the west.</p> <ul style="list-style-type: none"> <li>• Condamine Alluvium (57m deep) separated from first coal seam of Walloon Coal Measures (103m deep) by 54m of clay (80%), siltstone (12%) and sandstone (8%).</li> </ul> <p><b>Water Bore Construction Types</b></p> <ul style="list-style-type: none"> <li>• Arrow has developed a Basis of Design for ground water monitoring bores which outlines standard designs for groundwater monitoring bores. The standard design is chosen based on :             <ul style="list-style-type: none"> <li>○ Number of formations being monitored</li> <li>○ Type of formation(s) to be monitored                 <ul style="list-style-type: none"> <li>▪ Above Walloon Coal Measures (WCM)</li> <li>▪ Within WCM</li> <li>▪ Below WCM</li> </ul> </li> <li>○ Objectives of monitoring:                 <ul style="list-style-type: none"> <li>▪ Pressure/level</li> <li>▪ Pressure/level and quality (OGIA require pressure data at all sites.</li> </ul> </li> </ul> </li> <li>• The varying construction types were discussed.</li> </ul>	
<p>ITEM 7</p>	<p><b>Research Projects</b></p> <p><b>Pest Management Activities – Brydie Hedges</b></p> <ul style="list-style-type: none"> <li>▪ Initial program undertaken over 12 days in March on Theten and Broadwater</li> <li>▪ Targeting wild dogs, feral pigs, foxes and cats through:             <ul style="list-style-type: none"> <li>○ 11 nights of 'free feeding' to attract pigs</li> <li>○ 81 rubber leg hold traps</li> <li>○ 15 monitoring cameras</li> </ul> </li> <li>• Trapped two wild dogs, six foxes, six feral cats and 13 feral pigs</li> <li>• Information on the animals' sex, weight, age and capture location was recorded</li> <li>• Genetic samples taken from wild dogs for future DNA testing</li> <li>• Stomach samples taken from all animals to determine the impact of pest species on the local environment and agriculture.</li> <li>• Ian Hayllor raised concerns regarding notification process during pest management activities. Leisa Elder advised Arrow had conducted an internal review following the concerns raised directly with Arrow by Mr Hayllor and issues will be addressed</li> <li>• Neville Wirth advised he believed that notifications have to be two-pronged and can't rely solely on a call only. Also advised that he believes that pig-shooting is more effective than pig trapping. The timing of work needs to take into account current cropping as it is prior to harvest that pig numbers are up. Stated that he fully supported Arrow getting all Theten neighbours together to ensure a coordinated approach.</li> </ul> <p><b>Next stage:</b></p> <p><b>Pest Animal Monitoring and Research Program – Brydie Hedges</b></p> <ul style="list-style-type: none"> <li>• Darren Marshall's professional doctorate aims to demonstrate that integration of community engagement and biophysical research creates more effective species control.</li> <li>• Theten Farm will be a 'control site' with data collected through infrared cameras, trapping, fitting of GPS collars and tagging of feral pigs.</li> <li>• Open house will be held at Theten Farm on 12 &amp; 13 July.</li> <li>• Data collected will inform effective management of pest animals on a landscape scale.</li> <li>• Nev Wirth commented that the most effective pig control is by helicopter shoot. Neighbours contribute to a shoot 2 times per year. He noted that pigs move up and down water courses. He fully supported the program.</li> <li>• Brydie Hedges advised the trapping in this part of the program was for collaring purposes only.</li> </ul> <p><b>Mulch rehabilitation trial – Nick Gifford</b></p> <ul style="list-style-type: none"> <li>• The purpose of the trial is to identify the most effective and efficient use of mulch for rehabilitation in terms of:             <ul style="list-style-type: none"> <li>○ Mulch properties such as texture/shape, size and age (eg fresh vs aged mulch)</li> <li>○ Application methods</li> <li>○ Preparation of underlying soil surface</li> <li>○ Minimising erosion and supporting re-establishment of vegetation.</li> </ul> </li> <li>• Complements research undertaken in 2014-2015 on erosion and rehabilitation treatments.</li> <li>• Trial is currently underway under controlled conditions in a contractor's Toowoomba site to investigate the impacts of a number of treatments on germination rates.</li> <li>• Research outcomes to be finalised by end of 2016 and will be communicated to the committee.</li> </ul>	

	<p><b>Water geochemistry research</b></p> <ul style="list-style-type: none"> <li>• This project investigates the use of geochemistry and specialist isotopes to optimise water and gas extraction..</li> <li>• Overall the goal is to use geochemistry and isotopes to assess the proportion of groundwater coming from different parts of a co-mingled production well.</li> <li>• This would allow us to further optimise systems reducing the amount of water produced in production.</li> <li>• Currently in the analysis phase – testing specific units and developing geochemical relationships, including a sample collection of Juandah/Taroom specific production bores and monitoring wells.</li> <li>• Understanding of the groundwater at each site allows for better planning.</li> <li>• Ian Hayllor asked how water quality allows identification of coals. Nick Gifford responded that water quality is like fingerprinting. Carey Bradford provided further advice talking of the link between coal and water saturation</li> </ul>	
<p><b>ITEM 8</b></p>	<p><b>Legal standing of CCAs and rehabilitation of sites if a resource company becomes insolvent – Richard McLean</b></p> <ul style="list-style-type: none"> <li>• Typically, before an insolvency process would commence, the company would go to market. If purchased, the new owners would take on the responsibilities owed to the landholder.</li> <li>• If the company were to become insolvent:             <ul style="list-style-type: none"> <li>○ administrators would be appointed to ensure those owed money receive payment</li> <li>○ landholder compensation payments fall into line with money owed (this may result in the compensation being paid out at a smaller proportion)</li> </ul> </li> </ul> <p><i>If a resource company becomes insolvent, where does a landholder stand regarding rehabilitation of the site?</i></p> <ul style="list-style-type: none"> <li>• Whenever a resource company applies for tenure it is issued an Environmental Authority :</li> <li>• Companies are required to submit Financial Assurance (FA) against a plan of operations or for a large work program</li> <li>• When FA is granted, application is made for 100% assurance against the full rehabilitation of the disturbed areas, including any associated infrastructure.</li> <li>• The Department of Environment and Heritage Protection (EHP) calculation method is used and checked by EHP before the FA amount is accepted.</li> <li>• This amount is then assured via bank guarantees from the resource company to EHP.</li> <li>• If any issues with the works are identified by EHP, they have the ability to call on the use of the financial assurance for rehabilitation purposes, under the Environmental Protection Act.</li> <li>• Alternatively, if the resource company surrenders the tenure they must meet the environmental authority (EA) rehabilitation requirements or EHP may call on the financial assurance to fully rehabilitate the area.</li> <li>• This is insurance for the landholder that when the works are finalised the site can be rehabilitated even if the resource company doesn't undertake it.</li> <li>• Nev Wirth commented that this in an ongoing concern for landholders and the concern was not so much around rehabilitation but on water impacts. He also said they would be eagerly watching what is currently happening with the Linc Energy matter.</li> </ul>	
	<p><b>ASCRG Committee</b></p>	
<p><b>ITEM 9</b></p>	<p><b>Membership of ASCRG Committee</b></p> <ul style="list-style-type: none"> <li>• Cr Paul McVeigh accepted the invitation to transfer from the AIFL committee to the ASCRG committee.</li> <li>• Nominations were called for other vacancies.</li> <li>• Trudi Bartlett suggested David Sweetapple.</li> <li>• Councillor Sommerfield suggested Rob Hart</li> <li>• Leisa Elder requested nominations to be submitted over the next 2 weeks and would be distributed to the committee for review.</li> </ul>	<p><b>Email request for nominations for committee to be sent to current members – Tania Marshall</b></p>
<p><b>ITEM 10</b></p>	<p><b>Minutes of previous meetings</b></p> <ul style="list-style-type: none"> <li>• Minutes of December 2015 and March 2016 were accepted.</li> </ul> <p><b>Actions:</b></p> <p><b>Pest Management Program</b></p> <p><b>Question: <i>What strains of Brucellosis had been found in feral pigs?</i></b></p> <ul style="list-style-type: none"> <li>• The strain of Brucella that has been tested and confirmed in the feral pig population in southern Queensland is Brucella suis. This is a concern as this infection, caused by bacteria, can be spread to humans. A vector for this is the feral pig (Sus scrofa)</li> </ul> <p><b>Question: <i>How many Arrow staff live and stay locally?</i></b></p> <ul style="list-style-type: none"> <li>• Currently there are 88 positions filled based in Dalby of which 52 staff reside in Dalby.</li> <li>• Some of the other 36 staff live within commuting distance in areas such as Chinchilla, Toowoomba and surrounds.</li> </ul>	

	<p><b>Question: <i>Where are Arrow's uniforms sourced?</i></b></p> <ul style="list-style-type: none"> <li>Currently uniforms are sourced from Dalby and District Safety Supplies, MacNellies Workplace Safety (Dalby) and Blackwoods.</li> </ul>	
ITEM 11	<p><b>Regional Planning Interests Act 2014</b> For current work Arrow has relied on:</p> <ul style="list-style-type: none"> <li>s24 exemption (approvals in place as at 12 June 2014)</li> <li>s22 (agreement with landholders)</li> <li>s99 (pre-January 2012 approvals and on SCA land)</li> </ul> <p>For new development Arrow will –</p> <ul style="list-style-type: none"> <li>Focus on reaching agreement with landholders (as per the intent of the legislation)</li> <li>Up front planning (through AWP) with landholders to provide certainty</li> </ul> <p>Section 99 of the Act - relates to Strategic Cropping Areas</p> <ul style="list-style-type: none"> <li>Provides an exemption if the EA or tenure was granted before 30 January 2012</li> <li>Is only available where the activities are undertaken within the Strategic Cropping Area (formerly SCL)</li> <li>More applicable on Arrow's Bowen tenure than Surat given our Surat tenure is by and large captured by the PAA trigger</li> <li>Ian Hayllor asked that the information be provided to Graham Clapham.</li> </ul>	<p><b>Information to be provided to Graham Clapham by Suzanne Ferguson</b></p>
ITEM 12	<p><b>ACCC Review Update – East Coast Gas Supply</b></p> <ul style="list-style-type: none"> <li>The Australian Competition and Consumer Council (ACCC) completed their east coast gas supply review into market transparency and impediments to gas supply</li> <li>Key points <ul style="list-style-type: none"> <li>Not supportive of a gas reservation</li> <li>Seeking more transparency on reserve and resource levels, particularly private companies. (Arrow is a private company but reports its reserve and resource levels to the Government every six months by law)</li> <li>Seeking more transparency on market pricing</li> <li>Concerned about potential monopolistic practices by pipeline operators that could hamper supply and increase prices. Recommended a 'market power' test</li> <li>Raises that jurisdictions should make regulatory changes to manage gas supply and pricing issues rather than blanket moratoriums</li> <li>Made mention of Arrow in terms of pointing to large volumes of uncontracted reserves that would likely impact a future market</li> </ul> </li> </ul>	
ITEM 13	<p><b>Any other Business</b></p> <ul style="list-style-type: none"> <li>Trudi Bartlett questioned if it was true that Arrow were trialling local motels for possible future accommodation. Peta Tucker advised that a request for information was forwarded to local moteliors asking about what services and facilities they had while camp planning approval was being undertaken. Arrow does use camp accommodation but for instances like the Broncos Surat Blitz, motels will be used.</li> <li>Ian Hayllor expressed his disappointment that the issue with his son's dog being trapped during the pest management trials on Theten was not acknowledged in the presentation of the findings of the project. He stated that a member of WDRC had initially advised the placement of the trap and lack of neighbour notification was outside of WDRC guidelines.' The guidelines were called into question by Trudi Bartlett and by Councillor Sommerfield who advised that she believed that in the TRC area there is no requirement for trapping to be notified. Peta Tucker advised that Arrow has made significant changes to how notifications are undertaken and Land Liaison Officers will be undertaking the work in future. Peta advised that contact had been made with the person undertaking the research and he believed that the proper notifications had been done and he had worked within the guidelines.</li> <li>Ian Hayllor queried the flaring at Daandine. Carey advised that the flaring was intermittent in line with normal practice.</li> <li>Ian Hayllor said he would be interested in the work that Arrow was doing to minimise costs. Leisa Elder explained the ongoing work and reflected on the UTC work undertaken in 2014.</li> <li>Councillor Sommerfield provided an update to the Committee about the make-up of the new TRC.</li> <li>John Hughes provided an update on Land Access Audits undertaken with Arrow and ran through the work of the CSGCU. Ian Hayllor suggested it would be good for the Coal Seam Gas Compliance Unit to address the committee on the work they do, the complaints they receive and how they are handled.</li> </ul>	<p><b>Obtain WDRC Guidelines for dog trapping – Tania Marshall</b></p>
ITEM 14	<p><b>Next meeting</b> 8 September 2016 - Dalby – venue to be determined</p>	

There being no further business, the meeting was closed at 11.30am.