**Meeting held:** 6 August 2018 – 11.30am-1.00pm

**Venue:** Whitehaven Office Gunnedah Conadilly

Present: Roberta Ryan (RR) Independent Chair

Sandra Spate (SS) Minute taker

Robert Hook (RH) Gunnedah Shire Council (GSC)
Keith Blanch (KB) Community Representative

Grant McIlveen (GM) Community Representative Barry Thomson (BT) Community Representative

Brian Cole (BC) Executive General Manager, Project Delivery, WHC Tim Muldoon (TM) Group Manager Community Relations and Property,

WHC

Emily Clements Environmental Officer WHC

Steve O'Donoghue Department of Planning and Environment

Dee Elliott Observer via teleconference

Apologies: Ron Campbell (RC) Narrabri Shire Council (NSC)

Ron Fuller (RF) Community Representative

Item	Description	Action/
110111	200011p11011	Responsibility
1	Present, introductions and apologies	, ,
1.1	RR outlined the oversight of the CCC in the approvals process. RR was appointed as independent chair. The minutes a required to be available to the public within a month but are formally approved the following meeting.	
1.2	Apologies are as listed above.	
2	Declaration of pecuniary or other interests	
2.1	KB reported Whitehaven had acquired his property which he leases back from Whitehaven.	RR to email pecuniary interest declaration forms to new members.
3	Previous minutes	
3.1	Matters arising	
	GM asked in relation to a question at the last meeting whether automated trucks will reduce numbers of jobs for drivers. Whitehaven said at the last meeting there would be opportunity for truck drivers (replaced by rail spur operations) to be employed in mining operations. On the same day at a BMO Metals and Mining Conference 2017 Whitehaven said they would use autonomous trucks. Will these stop drivers from getting jobs?  BC replied indicating that a pilot program at Maules Creek is potentially looking to move to automation but there is a long process to go through. His experience is that automation doesn't reduce job numbers. Benefits are generally increases in productivity as the machinery can be used for longer. The pilot project is in the early stages. Whitehaven may look at this for Vickery.	

	GM said Whitehaven stated at the conference they would look at use of	
	an autonomous truck fleet at Vickery early in the process. If so, how did	
	Whitehaven respond at the previous meeting by saying drivers may get	
	jobs at the mine.	
	BC confirmed work is being done on autonomous fleets. These may be	
	used in Vickery as the project unfolds. Job numbers don't change as a	
	result of automation. There will be other jobs on site. There won't be less	
	employment opportunities overall.	
	GM asked for confirmation that there would still be 400 to 500 jobs at	
	Vickery with an autonomous fleet.	
	BC expects numbers employed to be the same. Coal would still be	
	moved between Tarrawonga and Vickery. Numbers of people employed	
	in the region by Whitehaven has increased dramatically over the years.	
	RR suggested employment numbers will be picked up in the Social	
	Impact Assessment (SIA) as part of the Environmental Impact Statement	
	(EIS). There will be opportunities for comment as part of that process.	
	TM said a current challenge is to find workers for Maules Creek. There	
	are vacancies there. Truck drivers referred to are contractors. There	
	should be opportunities at the new mine even without the same amount of trucks.	
	GM asked how it reduces costs if this is the case.	
	BC replied the benefits of automation are equipment being run for longer	
	hours. Delays such as shifts start or during breaks are eliminated.	
2.0	Equipment is in better condition.	
3.2	Acceptance of the minutes was moved by GM and seconded by BT. The	
4	minutes were accepted.	
	Canyon Environmental Monitoring Update	
4.1	BC presented the Canyon Monitoring Update (attached to minutes)	
	The mine operated between 2000 and 2009 and had a CCC. After	
	closure it was agreed with Department of Planning and Environment that	
	their function be rolled into Vickery CCC's. Part of the approval for	
	Vickery is a requirement that monitoring updates are presented here.	
	The presentation included:	
	Mine Closure Plan	
	Air quality	
	Surface water	
	Groundwater	
	Pest Management	
	Waste Management	
	<ul> <li>Rehabilitated land including flora and fauna</li> </ul>	
	The Canyon Mine layout	
	The Mine Closure Plan and monitoring will continue until 2022.	
	Measurements for air quality, surface and are below thresholds. There is	
	a slight upward trend for EC readings. Groundwater levels are generally	
	stable. Water quality is stable. There have been no complaints in 2018.	
4.2	KB asked whether members of the Canyon CCC had been notified the	
	Vickery CCC would take on its function.	
	SO replied it was discussed at the final Canyon CCC meeting.	
4.2	KB noted minimal runoff around Canyon works due to catchment dams.	
	BC said monitoring continues in the lower void. If issues emerge they	
	will be investigated.	
4.3	RH asked if baselines studies were done in the surrounding area for	
	comparison. He expects studies here to be similar to non-mined areas.	
	BC replied studies were done pre-mining. If there was discharge this	
	would be managed but there is a closed system (for surface water) with	
	no regional impact. Regional aquifers don't exist on Canyon or Vickery	
	sites. Modelling of groundwater shows negligible impacts.	

	KB said the mine was designed to have no run off which is a big issue here. Monitoring was done before the mine opened and on existing bores.	
4.2	GM asked how much of the Canyon site is covered by the Vickery dump. BC replied the void will be covered in. Four of the voids will be backfilled in the Vickery footprint but Blue Vale will be stepped around.	
4.1	KB noted the beautiful rehabilitation on Canyon which is alive and healthy. But there have been a couple of fires. There is a fire break around and through it but there are government restrictions on further firebreaks. He would hate to see the rehab area destroyed.	EC will follow up on regulations around firebreaks in the rehabilitated area.
5.0	Vickery Environmental Monitoring Update	
5.1	BC presented the Vickery Environmental Monitoring Update (attached to minutes).	
	There is currently no requirement to undertake monitoring until operations recommence. However data is being collected as baseline monitoring. Samples are collected from groundwater bores, surface water and air quality. Samples from bores showed stable levels generally with a downward trend for one. There have been no complaints in 2018.	
5.2	GM asked the location of the one bore.	
	BC replied it was at South Vickery	
	EC said the reason for the trend is uncertain given it is in a similar	
	proximity to the other three.	
7.0	Vickery Extension Project – EIS Update	
7.1	SO, from the Department of Planning and Environment's (DPE)	
	Resource and Energy Assessment team reported on the EIS process. The team gets advice from agencies during the assessment stage and the Resources and Energy Assessment team undertakes an all of Government assessment. The Department also undertakes the assessment on behalf of the Commonwealth under a bilateral agreement. This is triggered under the Commonwealth EPBC Act due to impacts on water resources and biodiversity. If the project were to be approved by NSW Government it would then be referred to the Commonwealth for its determination. The assessment process started with the issue of the Secretary's Environmental Assessment Requirements (SEARs) a couple of years previously. This covers key issues such as ground and surface water, social impacts, noise, amenity. The SEARs have been revised to require the assessment to apply recent DPE guidelines for Social Impact Assessment and changes by the proponent around the rail corridor alignment and reference to the water bore field. Whitehaven have advised that lodgement of the application and EIS is now imminent. The EIS is usually put on public exhibition within around three weeks of lodgement. DPE will review the EIS against the SEARs before accepting the EIS.  BC reported Whitehaven expects to lodge this month. Assessments are advanced with a lead consultant and specialists with reputations for credible reports. Reports are then peer reviewed. SO advised that expert advice will be provided from key agencies such as EPA, Department of Primary Industries – Water, OEH and the likely engagement of a groundwater and flood experts. The Department notes key concerns around groundwater and flood modelling of the rail spur will have input from agencies and experts.	
7.2	from agencies and experts.  CM asked who neighbours could go to if they have doubts about the	
1.2	GM asked who neighbours could go to if they have doubts about the Whitehaven modelling. Can they go to DPE for advice?	
	SO said the statutory exhibition period for EIS is a minimum 28 days	
	however the Department will exhibit for 42 days for more complex	

	projects. Hard copies and USB copies will be available at local exhibition	
	centres such as libraries. DPE consults closely with councils. During the	
	exhibition period there will be a community information session early	
	during the exhibition period to explain the assessment process with	
	opportunity for feedback. The Department will also consult with special	
	interest groups and landowners. The community has the opportunity to	
	make formal submissions on the project during the exhibition period	
	which must be made prior to the end of the exhibition period.	
	After exhibition DPE collates submissions and provides them to	
	Whitehaven for a response to issues raised. In March the Environmental	
	Planning Assessment Act changed. The Planning Assessment	
	Commission (PAC) was previously delegated to make a decision on	
	behalf of the Minister. The Independent Planning Commission of NSW	
	(IPCN) is now the consent authority if there are 25 or more objections,	
	political donations or the Council objects. The Minister can direct the	
7.0	IPCN to hold a public hearing.	
7.3	RH asked who makes the recommendation to the Minister to hold a	
	public hearing.	
	SO replied it is the Minister's decision. However, there are often public	
	hearings for larger / complex mining projects as part of the assessment	
	process.	
7.4	TM asked what happens if there are 30 objectors but 40 supporters.	
	SO said it is based on the number of objectors - 25 or more, or if council	
	objects, or if there are political donations. Timing of the assessment	
	process will depend on the length of the exhibition period, the quality of	
	the EIS, time for the applicant to respond to submissions, whether there	
	is a public hearing held.	
7.5	BC sought clarification that a public hearing is not necessarily the case	
	with the IPC.	
	SO said it is only if the Minister decides so. The IPC would likely	
	undertake a public meeting at the end of a determination process to hear	
	final views before determination if a public hearing was not held.	
	BC asked how a public hearing is conducted.	
	SO replied it is more formal under the new system. People can be	
	directed to attend the hearing and the IPC has used legal counsel.	
	GM asked who conducts the public hearing.	
	SO replied it is usually a chair and two or three Commissioners. A range	
	of skills can be brought in e.g. a hydrologist.	
	RR reported the names of Commissioners are on the DPE website.	
	Public meetings as opposed to hearings are more relaxed with people	
	being able to speak from the floor.	
	TM asked if public hearings have the ability to call expert witnesses.	
	SO confirmed this is the case.	
	BC asked does the prosecutor represent the Minister in hearings with	
	legal counsel.	
	SO replied legal counsel assist the IPC	
	BC asked whether the proponent has legal counsel.	
	SO replied as the first one has just been held the process may be	
	change.	
	TM asked about the timeframe of the first hearing.	
	SO replied it was held more than a month ago over half a day.	
	GM asked whether anyone could attend a hearing or if they are closed.	
	SO said they aren't closed but people who want to speak have to	
	register.	
7.6	GM asked how accurate Whitehaven has to be with modelling e.g. for	
-	the rail line. Do they have to provide detailed plans?	
	SO said there has to be a reasonable level detail for flood monitoring.	

BC replied while not the detailed design it includes critical elements for modelling. The superstructure is generally above flood level and spacing between supports is relevant.

GM questioned the accuracy of reports on flood levels provided at the last meeting with Whitehaven saying levels were only 19 cm deep when they were two foot deep on his farm.

BC replied levels vary across the flood plain.

RR noted technical assessments have to check these issues as part of the assessment process.

SO said DPE is likely to engage flood experts as well as using OEH expertise for flood modelling. DPE realises it is one of key issues for the project.

GM said farming techniques and topography have changed since the last flood 20 years ago. His biggest worry is how accurate experts are given the changes.

- 7.7 A presentation delivered by BC is attached to the minutes. Background to the project is:
  - Rocglen is expected to finish next year.
  - Maules Creek, Werris Creek and Narrabri are continuing.
  - There is Asian demand for high quality coal with the Gunnedah Basin a prime supplier of quality coal.
  - The improved rail system and increased port capacity has presented opportunities.

Other key points covered are:

- Whitehaven's contribution to the community, the region, the state.
- Employment opportunities, in particular Whitehaven's record of employment of members of the Indigenous community.
- Actively encouraging workforce and their families to live in the community.
- Support of local businesses.
- Community surveys indicating increased support for coal mining over time.

Original approval for 4.5m tons per annum was predicated on trucking. There are limits to what trucks can do and Whitehaven wanted to take trucks off the road. They looked at running the rail spur across the Broadwater property, across the river and the Milchengowrie property. Consultation since with landowners and councils resulted in changes to the project scope. While modelling indicated Blue Vale pit could be successfully mined without impacts on the river or groundwater there were community concerns around water resources. Under the approved model Mirrabinda fell in acquisition territory but the owners have expressed a preference to stay. Whitehaven decided to not reopen the Blue Vale pit and have moved the western dump further away from the river.

The previous south west option has been selected over the western option based on community feedback.

Changes have triggered the need to redo modelling. There have been no major changes to the overarll groundwater, surface water, noise or air quality results although noise and air quality impacts have been reduced at Mirrabinda.

The project is not on high value agricultural land.

There are no further properties that fall into the acquisition on request zone based on current criteria but that is the call of Planning.

Air quality will be within established thresholds.

Rigorous rail spur assessment has been done.

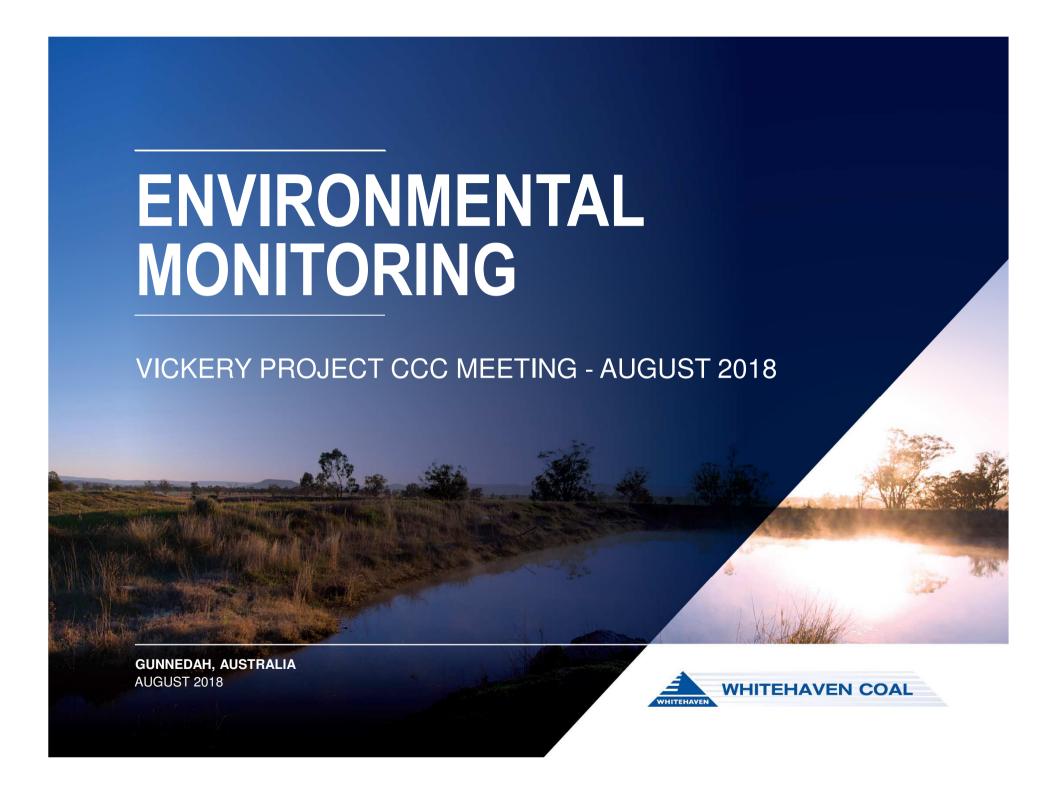
The site has previously been cleared but there is remnant vegetation.

	Flood modelling for the rail spur has been undertaken which replicates historical floods. The structure has been adjusted to operate within the Floodplain Management Plan (OEH and DPI).	
	The area to the west of the river is a prime groundwater area and there are rules around what groundwater can be taken. The geology at the	
	mine site suggests there will be little impact on groundwater resources.  Issues for surface water: is there enough water for dust suppression and	
	can water be contained on site in a big rainfall event. There is a regime of sediment dams, water quality is measured and surface water is	
	reused for dust suppression. Modelling takes into account 125 years of rainfall records and climate change.	
	Noise policy has changed. Noise modelling looks at a reasonable and feasible approach including seeking manufacturers of equipment to	
	minimise noise impacts.	
	Air quality projections are below the recognised criteria. Whitehaven has a history of managing these issues. Maules Creek has six or seven	
	water trucks on site for air quality purposes. BC tabled an article from the Northern Daily Leader saying community concerns are lessened if	
	Blue Vale pit is set aside.	
7.8	KB indicated an intention to seek a portion of the \$3.5m Whitehaven community contribution over the year for the Boggabri Lion's Club.	
7.9	GM asked whether the 75% of the workforce reported to live locally	
	includes those who spend 3 or 4 nights or are those who have moved families in.	
	BC replied it is based on those who give the local postcode as their	
	home. Whitehaven tries to encourage people to move their families here.	
	Increasing tariffs over time to live at the Boggabri camp discourages	
	people from using this as a long term arrangement.  TM gave the example of the office staff here. Only two of 28 staff have	
	their home elsewhere. The figure of employees living locally is at least	
	75%. Whitehaven targets locals for employment for retention reasons.	
7.10	GM asked in relation to Indigenous employment whether Whitehaven	
	offers apprenticeships.	
	TM replied they do. They also offer cadetships and participate in programs such as Clontarf which aims to keep kids at school through	
	sport. Cadetships will increase. The range of career opportunities	
	includes accountants, scientists and geologists. It is harder to attract	
	professional staff but a high proportion stay. Unemployment in the	
	Aboriginal community was at 25% in Gunnedah compared to 4% to 5%	
	for non-Aboriginal people. This has dropped to 20% and TM likes to	
	think Whitehaven has had a role in that. Retention rates for Aboriginal employees is higher than for other employees.	
7.11	GM asked why the local community doesn't get a slice of the \$171m in	
	royalties to pay for such things as the overpass in Gunnedah. He finds it	
	hard to accept people not involved in mining have to pay for this.	
	RH noted the complicated procedure around distribution of royalties.	
	Royalties for the regions is a misnomer as anyone can apply. He will find out more about the process and report to the CCC.	
	TM noted other contributions to infrastructure in addition to royalties e.g.	
	paying for rail line passing lanes benefitting grain producers sending	
	produce to port.	
7.12	GM asked how many diggers and how many trucks are expected at the mine.	
	BC replied there would be about 8 or 9 diggers and 40 to 45 trucks.	
	GM asked if autonomous trucks would cut employment from 500 to 450.	
	BC said work elsewhere suggests labour benefits aren't sought through	
	automation. Other tasks and roles are created. The benefit is that equipment operates more hours in a year. It is a productivity benefit.	
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BC replied not at this point. They have been looked at but would still have a controller. They will look at this as technology improves.  7.13  GM sought clarification on the statement that there are not further properties in the acquisition zone. BC clarified that there are no additional properties in the acquisition zone based on current criteria. The noise policy changed recently and Whitehaven's consultants had to undertake additional analysis.  Landholders at Mirrabinda have advised that they want to stay if they can. Whitehaven will wait and monitor the situation.  GM questioned acquisition of property at the northern end due to infrastructure 3.5km away when he and neighbours are within 2.5km of the crushing plant. He questioned consultants' knowledge of wind directions compared to the understanding of long standing locals. He also asked why if properties to the north have been bought, does Whitehaven now want the rail spur in the south within 2.5km of six or seven properties.  BC indicated that the properties to the north of the mine were part of the acquisition on request zone for the Approved mine. The acquisition had nothing to do with the western rail spur.  TM replied assessment for acquisition zones is based on modelling which aims for operations to have the least impact.  SO said rather than a fixed distance, acquisition rights are based on noise contours from noise modelling, which includes consideration of wind directions and inversions.  BC said noise modelling assumes distribution of equipment and changes of noise sources over the course of the operation, predominant wind directions and inversions.  BC said noise modelling assumes distribution or equipment and changes of noise sources over the course of the operation, predominant wind directions and inversions.  BC said noise modelling assumes distribution or equipment and changes of noise sources over the course of the operation, predominant wind directions and inversions.  BC said noise modelling assumes distribution or equipment and change		014	
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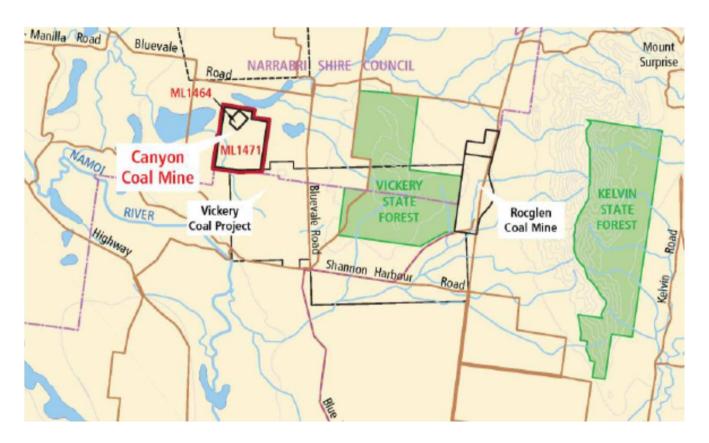
	GM asked if the rail spur is viaduct all the way.	
	BC replied it crosses the river and traverses to the west of the highway.	
	Most is elevated. There may be some embankment on the eastern side	
	of the river depending on the results of the modelling. The clearance	
	over the highway is no less than RMS requirements for the Maules	
	Creek spur. Whitehaven understands it crosses paddocks and is mindful	
	of the impact	
	GM said with changes to topography Whitehaven have to make sure	
7.45	they get it right.	
7.15	RH asked if the rail spur will be would be dismantled when the mine	
	closes.	
	BC replied it would assuming that property owners had no other use for	
	it.	
	GM suggested after the life of this mine there is a further 200 to 300 tons	
	under Vickery Forest so there is potential to keep it longer.	
7.16	GM asked whether noise modelling includes dumping of coal into the	TM to respond
•	coal hopper which is a big issue for neighbours.	to the question
	BC said this hasn't been the experience at Maules Creek.	proximity of
	GM asked what distance the nearest neighbours are from Maules Creek	neighbours to
	infrastructure and what is the size of the infrastructure?	Maules Creek in
	BC said the Noise Policy for industry relates to mining and infrastructure.	relation to coal
	Rail has separate guideline and noise limits. These are based on worst	into hoppers.
	atmospheric conditions and include acceptable and maximum levels.	
	Whitehaven is working within these. The Voluntary Land Acquisition and	
	Mitigation Policy sets levels which require mitigation or acquisition on	
	request. Noise criteria governed by the Noise Policy for industry is above	
	38 decibels and triggers mitigation measures such as double glazing or	
	changes to structure while over 40 decibels triggers discussions about	
	acquisition.	
	GM asked what the length of time for maximum noise is.	
	BC said it is the average over 15 minutes but assumptions are based on	
	worst case.	
	GM is not opposed to the mine but is worried about impacts on	
	neighbours 400m to 500m away. Some moved here for the quiet life.	
	RR noted there will be opportunities for people to have their say and	
	acquisition rules take into account affected people.	
	RH noted acquisition triggers may not be a satisfactory outcome for	
	people who have been on properties for generations.	
7.15	DE reported the Social Impact Assessment (SIA) has been done in	
	accordance with accordance with SEARS looking at impacts on	
	surrounds, culture including Aboriginal culture, heritage, community	
	cohesion, personal and property rights, amenity, size of population,	
	ways of life, housing and employment, health and safety and cumulative	
	impacts with other projects. Impacts of construction include for example	
	community connectivity, noise modelling, Saturday and Sunday	
	afternoons. The SIA integrates all effects related to the community -	
	visual amenity, traffic, air quality. They have talked to people in the	
	project area including 14 landholders nearest the rail spur and CCC	
	members as well as councils.	
	The SIA looks at the baseline and changes at local and regional levels.	
	RH asked in relation to increases in employment and a limited local base	
	whether people from outside the region would stay over time potentially	
	creating issues with availability and cost of housing, education, child	
	care and associated medical services which are currently stretched.	
	DE anticipates a population increase of 1.4% for Gunnedah and an	
	increase in Narrabri. It is hoped people would bring families and stay.	
	This would create demand for housing stock and with not a lot of	
	affordable housing available. There is residential land and capacity to	
	The second secon	

	grow but the market decen't keep up with demand. Degaphri in keep for	
	grow but the market doesn't keep up with demand. Boggabri is keen for	
	families to move in. There are schools across Gunnedah and Boggabri.	
	Increased population may help make up recently lost enrolments in	
	Boggabri. Medical services and emergency services were looked at.	
	Whitehaven will need to advise agencies of the workforce ramp up and	
	who is likely to move to the area.	
	TM asked what the Gunnedah LGA population is.	
	DE said population projections are based on NSW Government	
	projections for 2021 which indicate slow growth rates in both LGAs.	
	2021 projections indicate a population of 12,900 up from 12,750	
	currently and from 12,500 in 2011.	
	TM noted a Gunnedah population closer to 13,500 prior to the abattoir	
	closure. Now people have different lifestyles, smaller families and are	
	relatively older. Have those things been considered?	
	DE said social impacts and benefits are viewed differently by	
	stakeholder groups. The SIA focuses on Boggabri which is closer to the	
	mine and there are opportunities for people to move in there.	
	Thine and there are opportunities for people to move in there.  TM asked whether councillors and business chambers have been	
	consulted.	
	DE said conversations have taken place with Boggabri Progress	
	Association, Gunnedah Chamber of Commerce and the Narrabri	
	Chamber.	
8	General Business	
8.	GM asked if there is scope for more people to join the CCC. People	
	have asked how to join. Most members have been involved in mining	
	and there should be a greater range of people.	
	RR said there is scope for more members. People wishing to join should	
	speak to her.	
	SO noted there can be up to seven community members.	
8.3	GM asked about the process for the minutes. Are they edited by	
	Whitehaven?	
	RR outlined process: the draft minutes go out to all members who have	
	the opportunity to suggest changes. RR makes the final decision on	
	what goes into the minutes.	
9	Date and agenda for next meeting	
9.1	Based on the likelihood of the EIS being on exhibition in late September	
	it is suggested the next meeting be held late October or early November.	
	RH requests late November due to other commitments. Date TBC.	
	These minutes have been endorsed by the meeting Chair	
	These minutes have been endorsed by the meeting Chan	
	1/2 4	
	Kyh _	
	Signed: / // Date: 23.8.20	18
	Date: 23.0.20	
	I	



#### **VICKERY AND CANYON MINES**

MINING AT VICKERY CEASED IN THE 1990'S AND IN 2009 AT CANYON.





# CANYON COAL MINE



#### **CANYON MINE CLOSURE**

MINING CEASED IN 2009 AND THE SITE HAS UNDERGONE SIGNIFICANT REHABILITATION. MAJORITY OF INFRASTRUCTURE HAS BEEN REMOVED FROM SITE

- Activities on site controlled by Mine Closure Operations Plan 2015-22, DA 8-1-2005, and ML's 1464 and 1471.
- There was a Canyon Mine CCC in operation, but due to status of the mine, it has been decided to fold the Canyon CCC into the Vickery CCC.
- The scope of reporting to the CCC has encompassed:-
  - air quality
  - surface water
  - groundwater
- Given that mining ceased some eight years ago and the site is closed it is planned to discontinue air quality reporting at the CCC meetings.







#### **MAINTENANCE ACTIVITY**

#### Pest Management –

Feral pig trapping onsite starting 18<sup>th</sup> June 2018 – 31<sup>st</sup> July 2018.

#### Waste -

Old timber, oil pods and batteries found onsite removed by waste contractor at the beginning of July.





#### REHABILITATION CONT.

#### **SPRING 2017**





#### Flora -

- Woodland zones rehabilitated in 2004 and 2005 continue to increase in structural complexity.
- Other plots also continue to increase in structural complexity but at a slower rate.
- Canopy layers are yet to develop
- Higher native groundcover species richness in 2017 than any previous year.
- Exotic groundcover species richness varied between plots with both increases and decreases.
- Mean cover of native species notably increased from 2016 and exotic species cover decreased, though exotic cover still remains greater in all zones except Wood\_04 and the Control Zones.

#### Fauna –

- The rehabilitated zones showed higher or comparable bird species richness to Control Wood 1, though Control Wood 2 still holds the highest bird species richness.
- The vulnerable Grey-crowned babbler has been seen for the 3<sup>rd</sup> consecutive year.
- The Rabbit, Fox and Pig recorded. Pig trapping undertaken from 18/6/18-31/7/18.
- Seven mammal species observed.



## **CANYON MINE LAYOUT**

THE REMNANTS OF THE MINE INCLUDE AN UPPER AND LOWER VOID.





#### **SURFACE WATER**

DISCHARGES FROM CANYON REPORT TO DRIGGLE DRAGGLE CREEK. TO MINIMIZE DISCHARGES OF DIRTY WATER SEDIMENT DAMS ARE REGULARLY INSPECTED AND MAINTAINED AS REQUIRED TO RETAIN DESIGN CAPACITY

The surface water management system at Canyon includes:

- Diversion banks to divert clean water flows away from disturbance areas to clean water storage dams;
- Catch drains to collect and direct potentially sediment-laden water generated from the existing mining operations to sediment basins;
- Sediment basins to detain potentially sediment-laden water and the controlled release of clarified water;
- Contour banks and rock lines waterways on, or to direct water from, the post-mining landform to the natural surface; and
- Agricultural contour banks and farm dams.



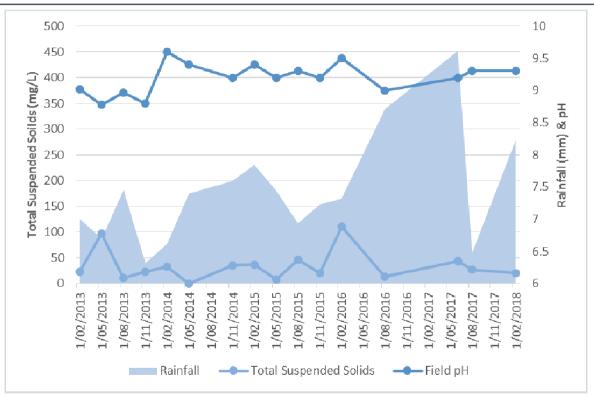
#### **SURFACE WATER**

DISCHARGES FROM CANYON REPORT TO DRIGGLE DRAGGLE CREEK. TO MINIMIZE DISCHARGES OF DIRTY WATER SEDIMENT DAMS ARE REGULARLY INSPECTED AND MAINTAINED AS REQUIRED TO RETAIN DESIGN CAPACITY

- Surface water monitoring is limited to the lower void and wet weather monitoring as required.
- Long term water test results show slight upward trend in pH and EC readings.



#### **SURFACE WATER**



No wet weather discharges have occurred during FY18 pH has remained relatively stable Fluctuations in TSS looks to be linked to rainfall.



#### **GROUNDWATER**

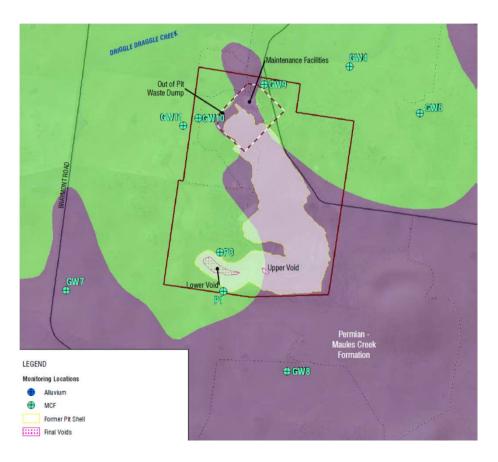
There are two principal groundwater resources within the vicinity of Canyon, being:

- Consolidated coal measures and basement rocks; and
- Unconsolidated colluvial / alluvial surficial sediments.
- The coal measures and basement rocks have low permeability (ability to pass water).
- Groundwater storage and flows are low.
- The unconsolidated sediments form aquifers but they do not exist within the immediate vicinity of the mine and instead are largely in areas north of the mine.



## **GROUNDWATER**

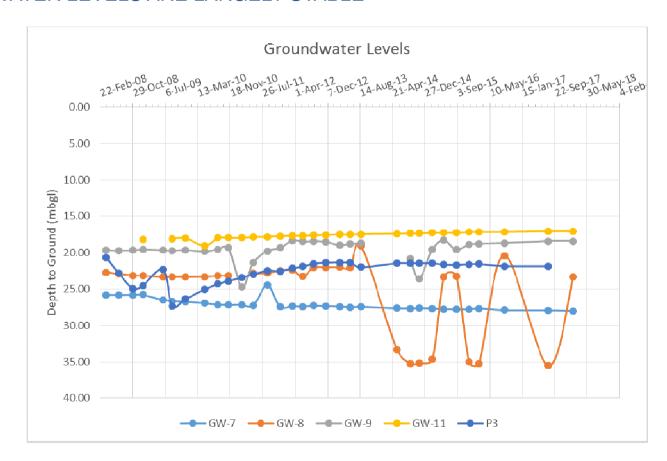
#### GROUNDWATER MONITORING BORES ARE LOCATED AROUND THE FORMER MINE SITE.





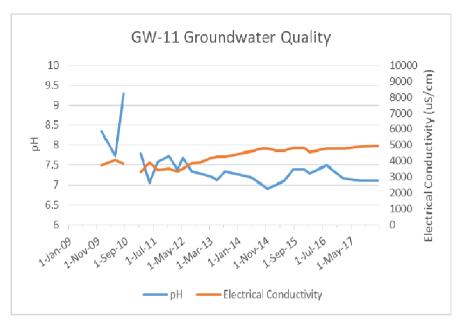
#### **GROUNDWATER**

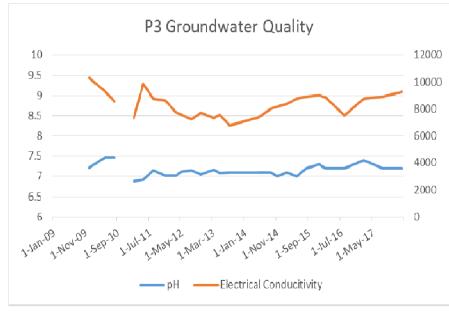
#### GROUNDWATER LEVELS ARE LARGELY STABLE





#### **GROUNDWATER CONTINUED...**







#### **GROUNDWATER MONITORING**

MONITORING IS CONDUCTED AT 6 MONTHLY INTERVALS AND INCLUDES STANDING WATER LEVEL AND WATER CHEMISTRY.

- Water quality results and standing water levels are relatively constant.
- GW11 indicates a slight increase in EC.
- Considered to be the result of water percolating through waste rock and into the groundwater system.
- The groundwater system is a closed system which flows to the voids on site which act as a sink.
- This limits any impact of leachate from waste rock on the regional groundwater system.
- The water level fluctuations observed at GW8 are considered to related to pumping of groundwater for farm use.



## **COMPLAINTS**

FY18

No complaints were received during the 2018 financial year.





# VICKERY COAL PROJECT



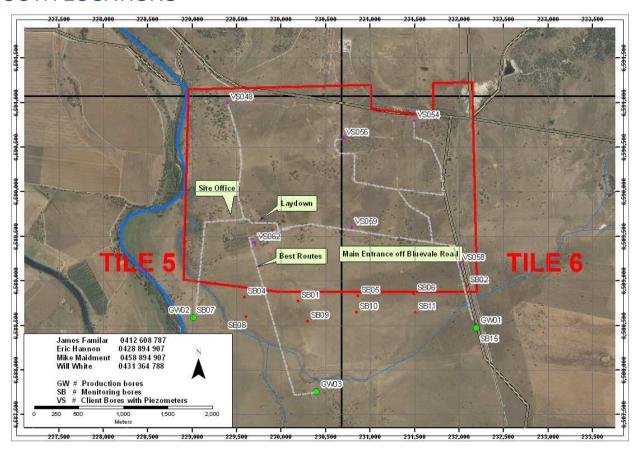
#### **MONITORING**

There are no requirements to undertake environmental monitoring until operations commence at the Vickery site. Whitehaven Coal does however, continue to collect surface water, groundwater, meteorological, and air quality baseline data.



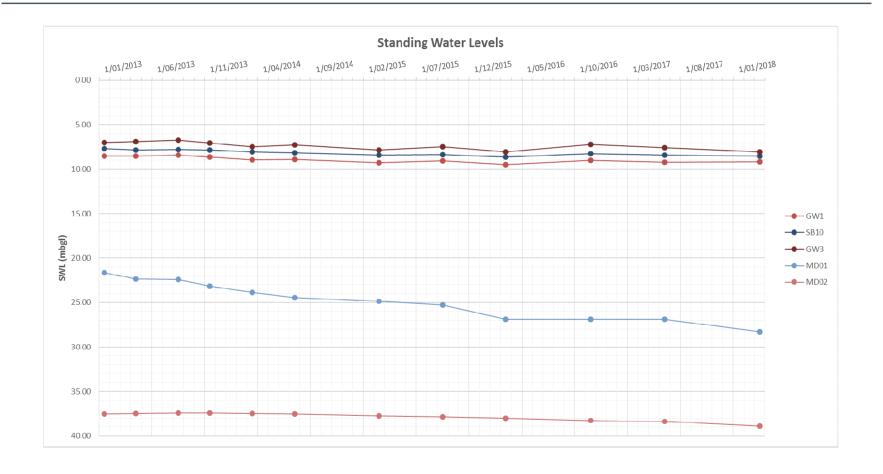
## **GROUNDWATER BORES**

#### **VICKERY SOUTH LOCATIONS**





## **GROUNDWATER LEVELS**





## **COMPLAINTS**

FY18

No complaints were received during the 2018 financial year.









#### **About Whitehaven Coal**

Whitehaven Coal has a proud history in the Gunnedah Basin where our mines, local investments, workforce and community contributions are centred.

We are the largest non-government employer in the region with a workforce of approximately 1,500, 75% of whom live locally.





## **Community Contribution**

We have invested

in the North West NSW economy since 2012



in annual salaries to Indigenous workforce flowing back into communities



We made payments in FY2017 of

to our employees in wages and superannuation



\$3.5m

in voluntary planning agreements payments last year for local community infrastructure /



In the past year we made

donations to community groups



\$171.9m

in royalties paid to the NSW Government in FY2017



We worked with more than

local suppliers during the past year



Around three quarters of our workforce live in the area of our operations, supporting the local economy



of employees self-identify as Aboriginal or Torres Straight Islander people

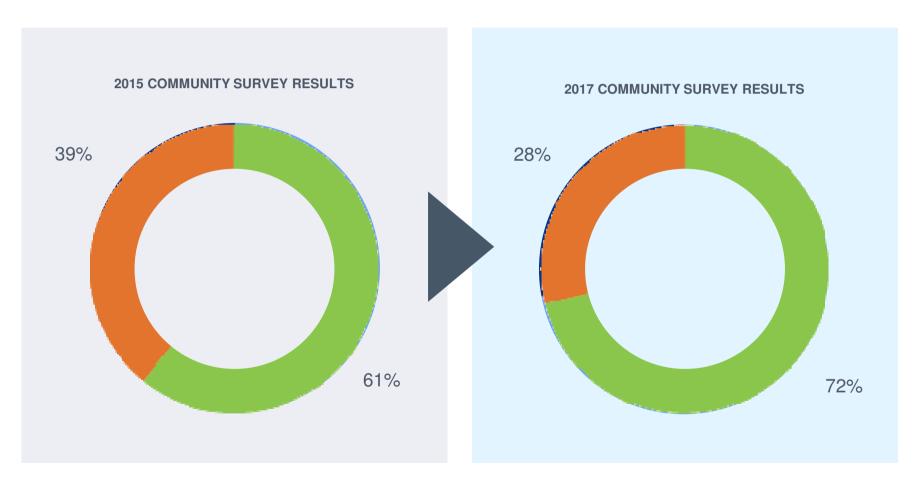




## **Community Views of Whitehaven**

SINCE WHITEHAVEN BEGAN INDEPENDENT COMMUNITY RESEARCH IN 2015, LOCAL SUPPORT HAS GROWN SUBSTANTIALLY





Source: Newgate Communications Pty Limited Research



# **Background - Vickery Extension Project**



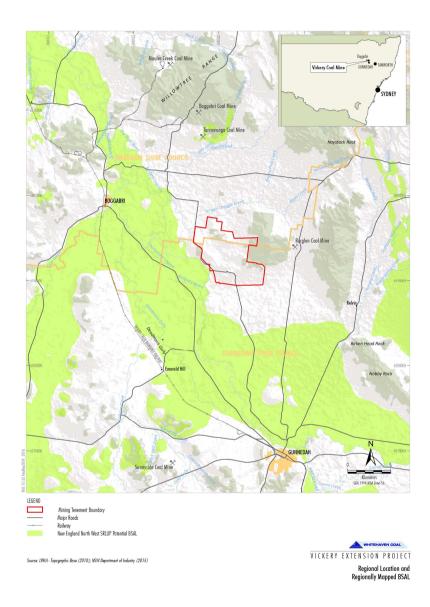
- The Vickery Coal Mine is already approved as a 4.5Mtpa open cut coal mining operation, located approximately
   25 km northwest of Gunnedah
- The Project site has previously been extensively mined and there is no high value agricultural land on the site
- Whitehaven is seeking approval for increased average run rate of 7.2Mtpa over 25 years.
- The Project involves the construction and operation of an on-site CHPP, train load-out facility, rail loop and rail spur.
- The Gunnedah Basin produces some of the highest quality coal in the world.



# **Agriculture**

#### NO SIGNIFICANT IMPACT

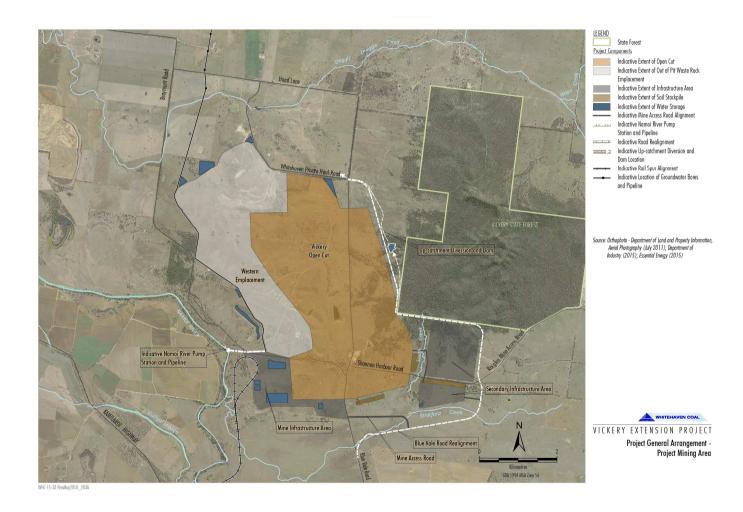
- No regionally mapped Biophysical Strategic Agricultural Land (BSAL) within Project area
- Much of the land within the footprint has been previously mined and rehabilitated
- Project area consists of lower quality grazing land





# **Vickery Extension Project**

THE EXTENSION PROJECT FOOTPRINT IS MARGINALLY LARGER THAN THE CURRENTLY APPROVED PROJECT.





## **Project Benefits**

### Local region

- The project will generate approximately:
  - 500 jobs during the construction phase, and
  - 450 jobs during operations.
- It will deliver significant financial benefits to the local economy, including:
  - \$230m incremental disposable income benefit to local communities
  - Over \$4m in incremental shire rates
  - Flow on benefits of \$80m and 170 FTE jobs in the local community

#### **NSW**

The project will deliver significant net benefits over the 25 year life of over \$1.3billion to NSW including:

- More than \$1b in royalty payments for the people of NSW
- Incremental company tax benefit of over \$190m
- Incremental disposable income payments of \$260m
- Flow on benefits in excess of \$400m



## **Environmental Impact Statement findings**

Based on some sixteen independent specialist assessments including groundwater, surface water, flood, noise and blasting, air quality and greenhouse gas, ecology and biodiversity, cultural heritage, traffic, the EIS shows Whitehaven can operate and develop the project safely with minimal impact on the environment.

- The Project will not impact high value agricultural land
- Coal trucks will be taken off Blue Vale Road and Kamilaroi Highway when Vickery CHPP begins operating
- No further property acquisition is required
- Imperceptible impacts on groundwater and surface water on the Namoi River
- Air quality impacts are within established thresholds
- Rail line is consistent with the provisions of the Namoi Floodplain Management Plan (FMP)
- Biodiversity impacts are modest and can be offset

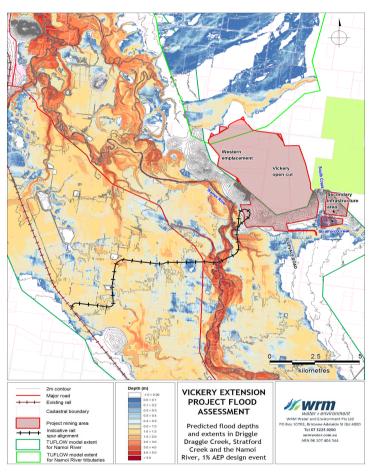
All assessments will be made available to the public on the Whitehaven Coal website



# **Rail Spur - flooding**

Traversing the floodplain brings with it strict obligations to not impact flood flow. The Floodplain Management Plan imposes set criteria to be met.

- There is considerable experience of flooding across the floodplain.
- Several large floods have been recorded and the experience providers a basis for sound projections.
- It is a requirement of the FMP that large floods are considered.
- Modelling has been discussed with OEH.
- Much of the rail spur will be designed to be elevated to pass through flood flow.





## Floodplain and Rail Spur

ASSESSMENTS FLOOD BEHAVIOUR INCLUDING MODELLED RAIL SPUR AND PEER REVIEW

### **Rail Spur**

- Coal railed from the project site has positive environmental and community impacts compared with trucking coal on public roads
- The proposed rail spur is consistent with the provisions of the draft FMP
- Modelling shows that the distribution of water flow across the floodplain is not significantly altered
- Forecast noise levels under noise enhanced weather conditions at nearby residencies are well below the recommended maximum

#### Floodplain Management

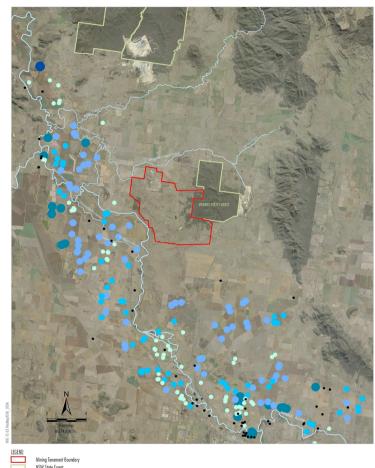
- Structures across the Namoi floodplain will be regulated by the FMP
- Independent assessments of the potential impacts have been extensively modelled
- These assessments indicate that any potential impacts are within allowable levels set out in the FMP



## Groundwater

Water is a significant natural resource in the Gunnedah Basin. Water resources include groundwater and surface water in the Namoi River

- Whitehaven commissioned a rigorous, robust, independent and peer reviewed ground water assessment as part of the EIS
- The Vickery Extension Project (VEP) is located within a hard rock "island" of the Maules Creek Formation. encircled by alluvium that provides the source of most of the groundwater utilised in the Vickery area
- Impacts on groundwater are regulated by the NSW Government's Aquifer Interference Policy (AIP)
- The modelling predicts that no privately owned bores surrounding the VEP will experience greater than "minimal impact" as defined in the AIP during mining operations
- There is a small predicted increase in river leakage to the reach of the Namoi River to the immediate west of the VEP mining area which would be imperceptible compared with normal river flow





Note: WALS 12622 12625 12645 12651 12653 and 12714 are awned by Whitehaven Coal and are not shown WALS 36547 and 36548 are owned by Idemitsu and are not shown





anna Australia (2006): DPI Water (2016): Whitehown (2016

## **Surface Water**

- No mine water will be released to downstream watercourse
- A water balance model has been created to permit an assessment of the risk of a water shortfall or discharge at any point in the mine life.
- The water balance model utilises 125 years of rainfall records.
- The modelling considers the progressive development of the mine over the mine life combined with 100 climate scenarios representing all the different sequences represented in the historic climate record.
- Sediment dams designed and operated to manage sediment-laden runoff in accordance with best practice management and EPL requirements
- The proposed water management systems for the mine are not expected to result in any change in water quality in neighbouring creeks
- Water extraction from Namoi River in accordance with access licenses

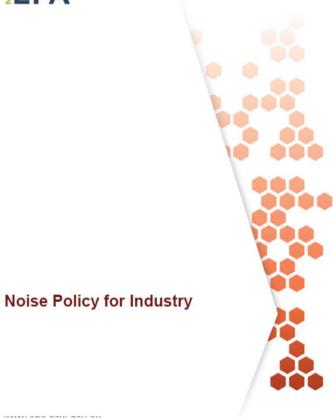


# **Noise Impacts from Mining**

Noise impacts are one of the areas that must be assessed..

- Because of the passage of time the EIS has been in play, the noise policy has changed.
- When the SEAR's were updated, compliance with the Noise Policy for Industry was applied.
- Modelling was repeated in line with the Policy.
- More complex than under the previous Industrial Noise Policy.
- Lessons from other mines have been applied.
- No additional properties within noise affected zone.





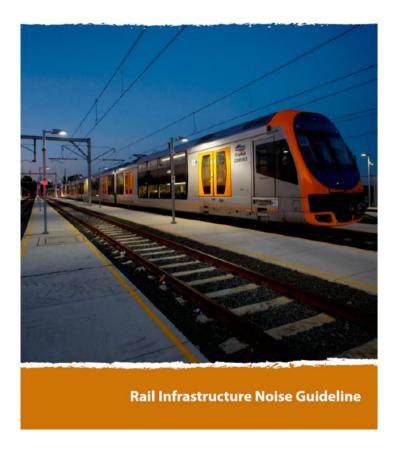


# **Noise Impacts from Rail**

Noise impacts relating to the rail spur also need to be assessed.

- Noise impacts for rail lines assessed using the Bail Infrastructure Guidelines.
- Noise limits for private rail sidings are much stricter compared with mainlines.
- Noise projections based on worst atmospheric conditions.
- All closest residences within acceptable noise levels.







# **Noise Impacts**

Government policy establishes guidelines for dealing with impacts on landholders.

 The Voluntary Land Acquisition and Mitigation Policy establishes noise and air quality thresholds.





## **Blue Vale**



### Vickery coal mine extension moved away from Namoi River

**December 7 2017** 

- Original Vickery Extension Project proposed scope included reopening the previously mined Bluevale pit.
- Blue Vale Pit's proximity to Namoi River and private residences meant that environmental assessments focused on potential impacts.
- Detailed modelling confirmed that impacts on Namoi River were minimal.
- Nevertheless there were some community concerns expressed to Whitehaven.
- After careful consideration, Whitehaven chose to exclude reopening Blue Vale pit from the Vickery Extension Project scope to mitigate community concerns.



## **Summary**

#### The Project will bring the following benefits to the local community and NSW:

- Generate 950 new jobs with about 500 jobs during the construction phase and around 450 jobs during operations
- Deliver significant net benefits of over \$1.3 billion to people of NSW
- Create fresh opportunities for Whitehaven to support local businesses and contractors
- The project when fully operational is likely to lead to decommissioning of the Gunnedah Plant and will reduce coal trucks on public roads.

### **EIS** findings:

- No impact on high value agricultural land
- No measurable impacts on groundwater and the Namoi River
- Incremental noise and air quality impacts are within established thresholds
- Rail spur impact within allowable levels on the Namoi River floodplain

