Burwood Colliery Dam

Consultation Outcomes Report

Crown Lands

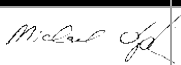
27 October 2022

→ **The Power of Commitment**

GHD Pty Ltd | ABN 39 008 488 373
GHD Tower, Level 3, 24 Honeysuckle Drive
Newcastle, New South Wales 2300, Australia
T +61 2 4979 9999 | **F** +61 2 4979 9988 | **E** ntlmail@ghd.com | **ghd.com**

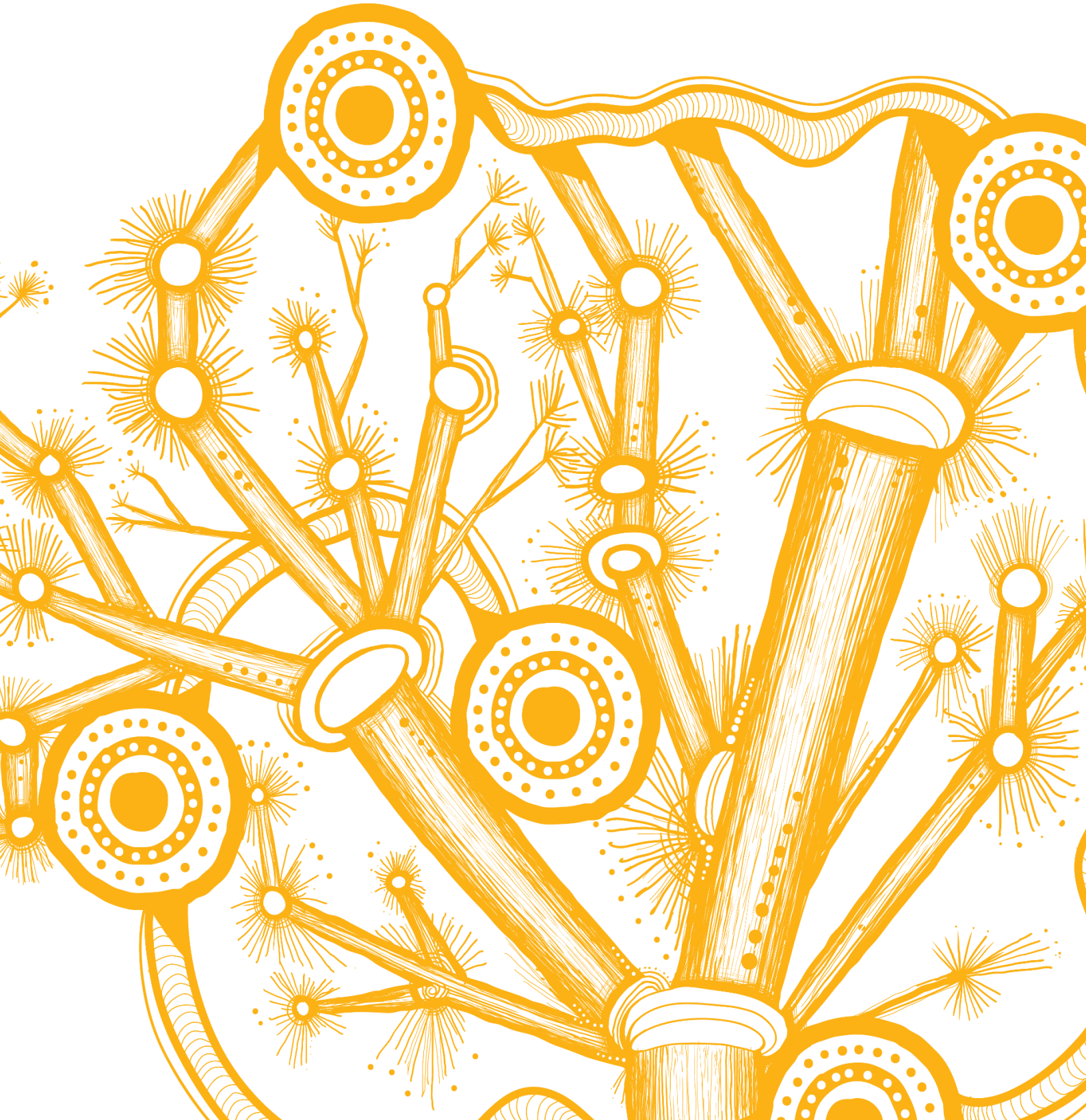
Last saved date	27 October 2022
File name	https://projectsportal.ghd.com/sites/pp01_02/crownlandsburwooddam/ProjectDocs/12580386_REP-Consultation outcomes report - Burwood Colliery Dam.docx
Author	Sonya Pascoe
Project manager	Michael Ulph
Client name	Crown Lands
Project name	Burwood Colliery Dam – Community Consultation Support
Document title	Burwood Colliery Dam | Consultation Outcomes Report
Revision version	Rev 0
Project number	12580386

Document status

Status Code	Revision	Author	Reviewer		Approved for issue		
			Name	Signature	Name	Signature	Date
S4	0	S Pascoe	M Ulph		S Murphy		27/10/22

Acknowledgement of Country

GHD acknowledges Aboriginal and Torres Strait Islander peoples as the Traditional Custodians of the land, water and sky throughout Australia on which we do business. We recognise their strength, diversity, resilience and deep connections to Country. We pay our respects to Elders of the past, present and future, as they hold the memories, knowledges and spirit of Australia. GHD is committed to learning from Aboriginal and Torres Strait Islander peoples in the work we do.



Contents

Table index

Figure index

Appendices

1. Introduction

The Burwood Colliery Dam (the dam) was constructed in the late 1800s in Whitebridge, NSW. It is located immediately west of the Fernleigh walking and cycling track, near Whitebridge High School, and currently has no dam-specific purpose.

On behalf of Crown Lands (CL), GHD carried out community consultation activities in August 2022.Community feedback was sought to identify community values, attitudes towards the future of the dam, opportunities for the future of the site and to seek ideas to mitigate any negative impacts.

1.1 Background

The dam structures are approaching the end of life and would require major and costly repairs and maintenance to extend their life. As the dam no longer serves a water supply purpose, over the next two to three years CL intends to investigate alternatives for reducing the risks associated with these ageing assets including their removal.

The dam currently acts as a part of the local stormwater system and has the effect of reducing the concentration (and thus velocity) of stormwater flows. As the stormwater flows slow, sediment in the stormwater is deposited into the dam. It is likely the dam will eventually silt up and become swampy land, like an artificial wetland that cycles through wet and dry conditions dependant on weather conditions.

To extend the life of the dam wall and spillway, major and costly repairs would be required. Additionally, ongoing maintenance and monitoring would be required to avoid dam failure which, if occurred, could result in negative environmental impacts.

The dam's spillway is currently unguarded and can be accessed by the public.

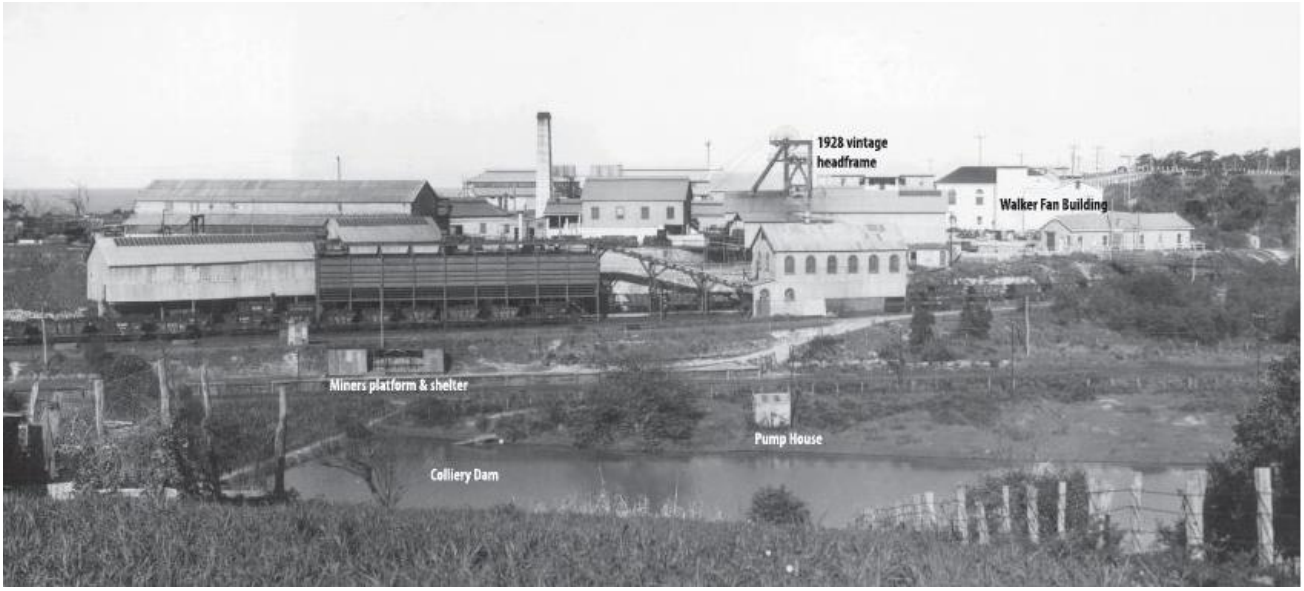


Figure 1.1 An historic photograph of the former Burwood Colliery and Burwood Colliery Dam

1.2 Purpose of this report

This report presents back to the community the feedback and ideas received over the consultation period, as well as describe the consultation process. This report first identifies the key stakeholders that were engaged, based on the assumption they would have a high level of interest in the future of the dam. The report outlines the specific engagement activities carried out.

The report then describes the outcomes of these activities and provides a discussion of the key themes raised by the community during drop-in sessions (DIS), emails, and phone calls. This discussion also provides key suggestions and identifies opportunities for the future of the dam.

This report will be used to assist with deliberations around the next steps for this project, considering the values, perspectives, ideas and other feedback that has been gained.

1.3 Limitations

This report: has been prepared by GHD for Crown Lands and may only be used and relied on by Crown Lands for the purpose agreed between GHD and Crown Lands as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Crown Lands arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section(s) 1.2 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

2. Key stakeholders

Key stakeholders were identified to plan the best methods to encourage input and feedback on the future of the Burwood Colliery Dam. Stakeholders are listed in Table 2.1, along with methods of engaging for project input. Engagement activities are described in Section 3 below.

Table 2.1 Stakeholder types and engagement methods

Category	Stakeholders	Issues of interest	Engagement Level	Engagement Method
NSW Government Local Member	NSW Member for Charlestown – Jodie Harrison Member of Parliament (MP)	– Interest in state government projects – Community views and perceptions – Community impacts	Inform	Briefing 17 August 2022
Local Government	Lake Macquarie City Council (LMCC) staff	– Community views and perceptions – Community impacts – Impacts on local government – Environmental impacts and benefits – Impacts on/from stormwater system – Construction impacts (if any) – Visual impacts – Safety risks	Inform	Briefing to LMCC departmental staff on 6 September 2022
	Mayor, City of Lake Macquarie: – Clr Kay Fraser – City of Lake Macquarie Councillors	– Project timing – Construction impacts to Fernleigh track users, including noise, vibration, dust and visual impacts (if any) – Community views and perceptions – Environmental impacts and benefits – Impacts on/from stormwater system – Accessibility to Fernleigh Track – Amenity for Fernleigh track users – Community interest in the dam and formalising access across the land	Inform	Briefing to Councillors on 4 October 2022

Category	Stakeholders	Issues of interest	Engagement Level	Engagement Method
Community around Whitebridge	– Whitebridge residents – General community	– Access and wayfaring – Safety – Environmental impacts – Aesthetic and other amenity values for the dam – Historical values for the dam – Opportunities for the future dam site – Construction impacts, including noise, vibration, dust and visual impacts – Community benefits	Inform/Consult	Drop-in sessions held 16 August 2022
School community	Whitebridge High School	– Access and wayfaring – Safety – Environmental impacts – Aesthetic and other amenity values for the dam – Historical values for the dam – Opportunities for the future dam site – Construction impacts – Community benefits	Consult	Classroom workshop on 16 August 2022 Drop-in sessions held 16 August 2022

3. Consultation activities

3.1 Activities and attendance

Table 3.1 outlines the activities carried out by GHD and CL as part of the consultation for the future of the Burwood Colliery Dam. An offer to brief the Federal Member for Shortland, Hon Pat Conroy MP was not accepted, and as such is not listed below.

Table 3.1 Consultation activities

Activity	Attendance	Date and time	Location	Description
Briefing to NSW Member for Charlestown – Jodie Harrison MP	Member for Charlestown	17 August 2022 1:00 pm – 1.30 pm	Charlestown	GHD and CL met with the member for Charlestown and discussed the current project.
Briefing to LMCC Councillors	LMCC Councillors	Tuesday 4th October 2022 5.30 pm – 6.00 pm	Council's Administrative Centre, Speers Point NSW	GHD and CL provided a briefing to Councillors, discussing the current project and timeframes etc.
Briefing to Lake Macquarie City Council staff	6 LMCC staffers	Tuesday 6 September 2022 2.00 pm – 3.00 pm	Council's Administrative Centre, Speers Point NSW	GHD and CL met with six staff members from LMCC to brief them on the consultation on the future of the dam, and identify any opportunities to collaborate.
Classroom workshop	Approx. 12 students (year 7, 11, and 12 students) and 3 teaching staff	Tuesday 16 August 2022 9:00 am – 10:30 am	Whitebridge Highschool classroom	Students were briefed on the Burwood Colliery Dam, key challenges and opportunities. Students were then asked to develop a poster to provide a solution for, or input on, the future of the dam (see Figure 3.2). Two representatives from GHD and one from CL were present.
Community drop-in session (DIS) #1 and #2	Approx. 65 community members 53 feedback forms	Tuesday 16 August 2022 DIS #1 3:30 pm – 5:30 pm DIS#2 6:00 pm – 8:00 pm	Whitebridge Highschool Hall	Community members were invited to provide input through discussion, feedback forms, drawing on maps, and sticky notes on posters (see Figure 3.1). Posters were displayed, including those made during the classroom workshop (see Figure 3.3 and Figure 3.4). Two representatives from GHD and one from CL were present.
Community phone and contact email	6 phone calls 23 emails	August 2022	N/A	The GHD engagement team received phone calls and emails over the month of august to gather feedback from the community who were not able to attend the DIS.

Figure 3.1 *Community members gather to discuss the future of the dam and provide written and visual feedback*

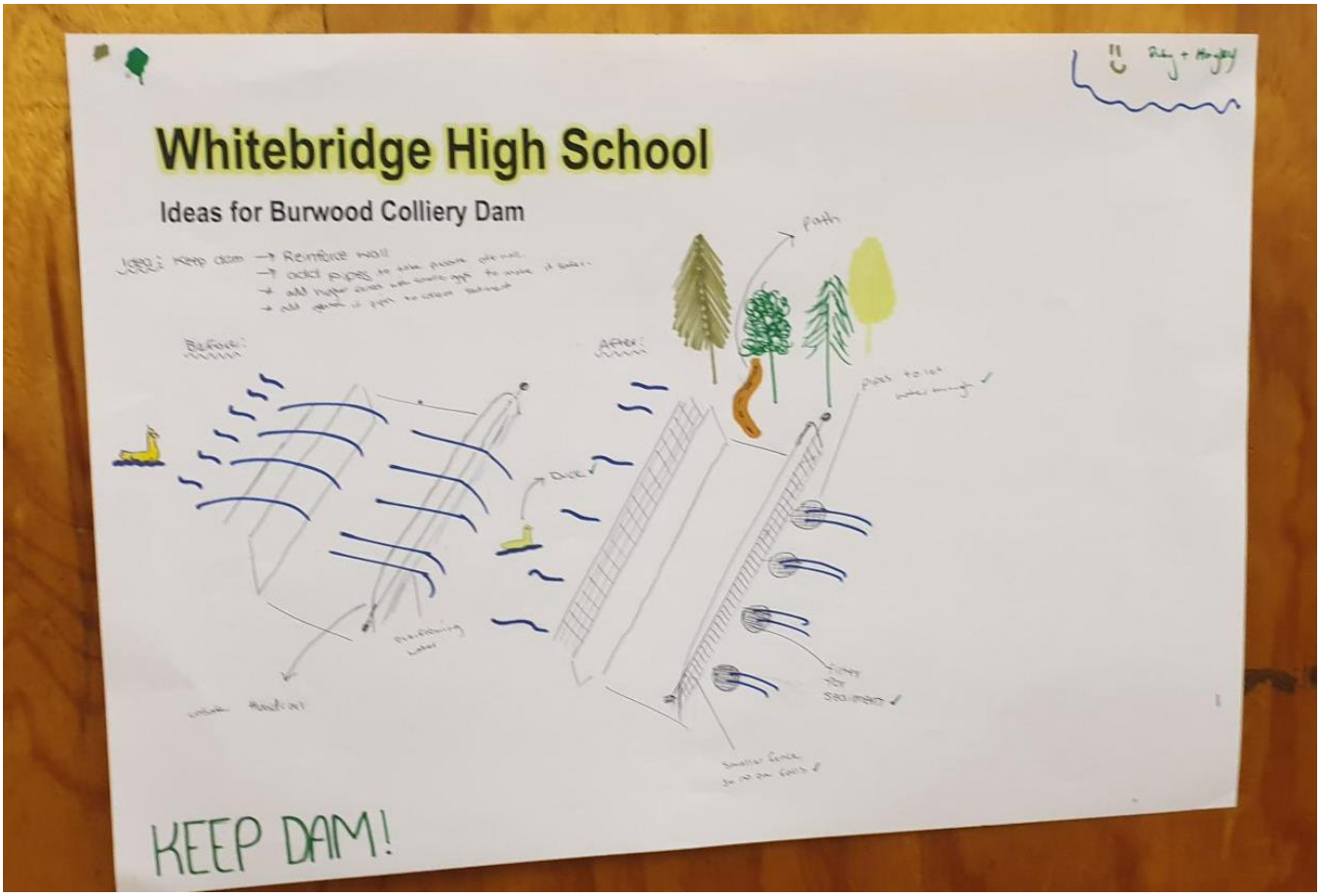


Figure 3.2 *Poster developed by students in the classroom workshop*

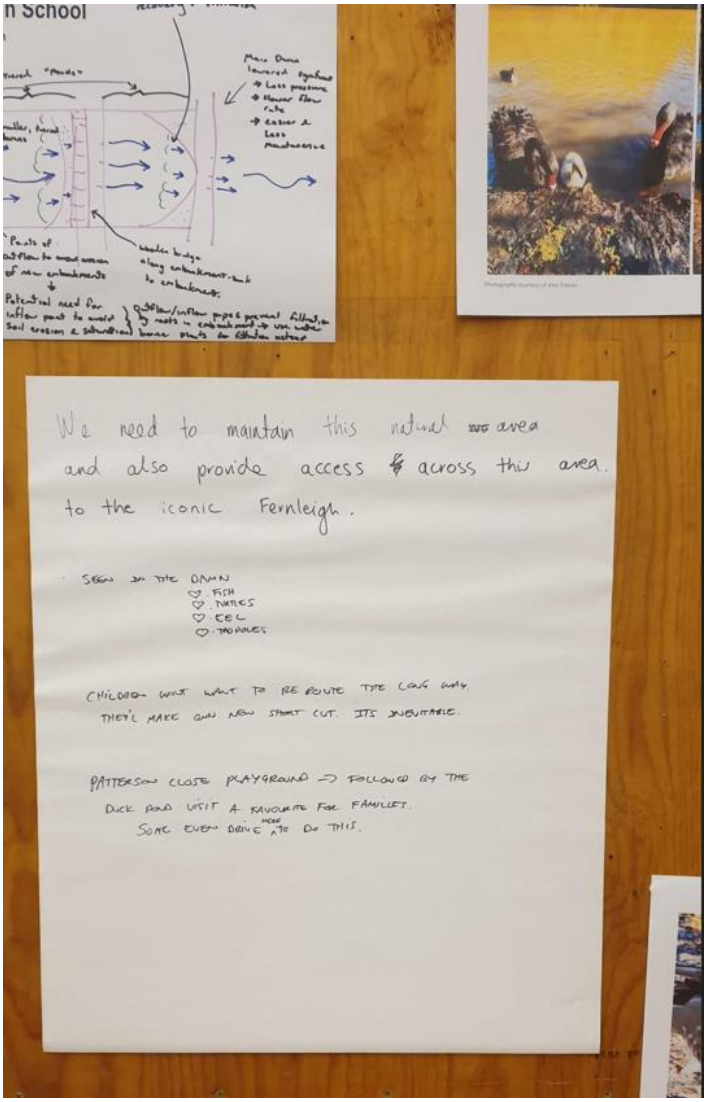


Figure 3.3 Poster contributions from the community, surrounded by photographs and posters completed by Whitebridge High School Students

Figure 3.4 Community member sign in as they attend the DIS. Posters for discussion and contribution can be seen on the back wall of the Whitebridge High School hall.

3.2 Promotion

Promotion of the above opportunities to provide input on the future of the Burwood Colliery Dam were carried out via the following channels:

– On 8 August a notification flyer was distributed to residences within approximately 600 metres of the dam (see Appendix A for the notification flyer and Appendix B for the distribution area).
– Three corflute signs advertising the two DIS were placed on either side of the Burwood Dam (see Figure 3.5). These were placed on 12 August so that any local students or others traversing the site would have several days to see them prior to the two DIS. The corflute signs also provided the community number and email for other modes of feedback or contact with the project team, and a QR code that linked to the project web page.
– Whitebridge High School published details of the drop-in sessions to their Facebook page on 9 August.
– The drop-in sessions were also promoted on the CL web page and mentions by local media also assisted in the promotion of the events.

Figure 3.5 Corflute sign promoting the DIS

4. Consultation outcomes

4.1 Community consultation

As described in Section 3.1 above, community feedback was invited through various platforms and methods across August 2022. During that time, email, phone calls and feedback forms were received. Of the total responses, 90 per cent expressed a preference to “keep the dam/maintain the dam”, where just 4 per cent expressed a preference to remove it or let it return to a “natural state”, as shown in Figure 4.1 below. An additional 6 per cent did not indicate their preference to keep the dam one way or the other. Some of those that indicated they preferred to keep or maintain the dam also provided suggestions on how to maintain it, i.e., through reinforcements and repairs. During discussions at the drop-in sessions, the costs for repair and maintenance was generally seen as worthwhile for the value the dam provides to the community.

Throughout consultation, many community members provided photographs of Burwood Colliery Dam from personal collections, including historic aerial photos (see Figure 4.4) and wildlife sightings.

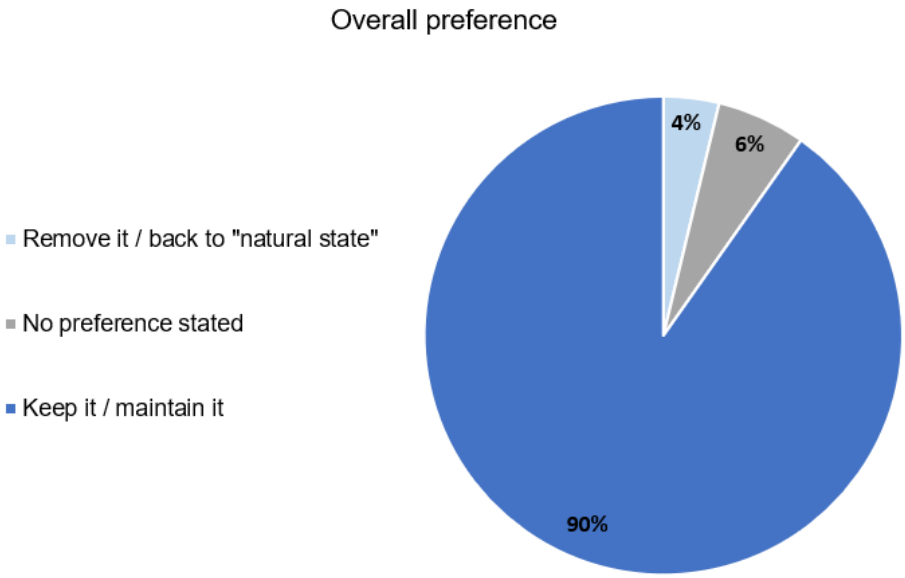


Figure 4.1 Preference to keep or remove the dam

Various themes and issues were raised during community consultation. Figure 4.2 shows the themes and issues raised, where the top three most common themes were “wildlife / biodiversity / flora value: (78 per cent), amenity / recreational value (60 per cent), and historic value (35 per cent). Key themes and issues are discussed in turn in the following sections.

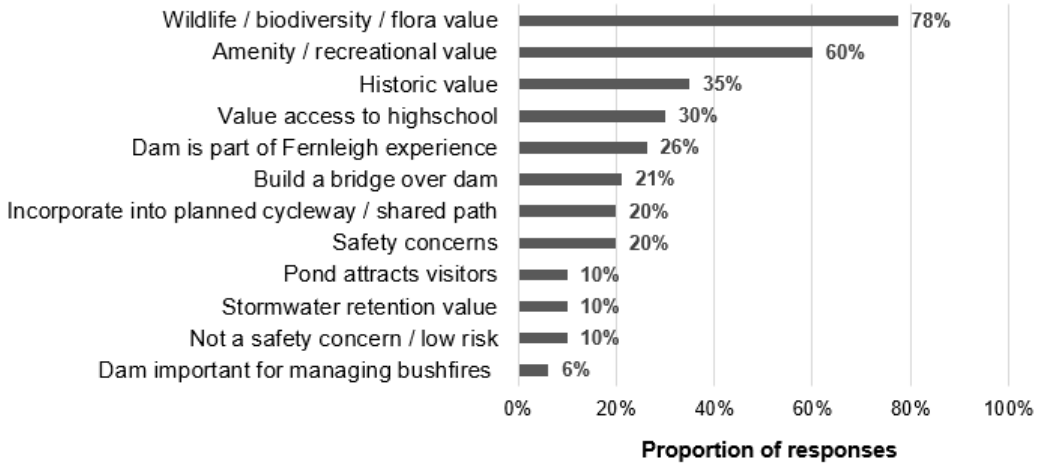


Figure 4.2 Themes and issues raised

4.2 Discussion of key themes

Wildlife, biodiversity and flora

The predominant theme raised was the value the water body has for wildlife, biodiversity and flora in the area. 78 per cent of feedback forms, calls and emails raised this theme. Discussion and comments from the community made it clear that the ecosystem of plants and animals in the area are highly valued for both environmental and scenic qualities. While many comments emphasised a preference to maintain the environmental quality for the sake of surrounding wildlife, many comments also emphasised that wildlife, flora, and the natural environment contributed to a highly valued amenity in the area. This is discussed further in the section below.

Many community members expressed their enthusiasm for wildlife in the dam area, and some provided photographs from their personal collection of animal sightings at the dam (see Figure 4.3).

Suggestions made around environmental aspects of the dam area, include:

- Utilise existing survey data (i.e. from University of Newcastle) and gather more data from additional surveys (ecological) to improve the understanding of the ecology values of the dam
- Remove invasive plants to improve environmental value of the area
- Involve a Landcare group to help maintain environmental value of the area

Figure 4.3 Birdlife at the dam [photo courtesy of Alex Patsan]

Amenity and recreation

The amenity and recreational value of the dam area was another key theme to arise from community feedback, with 60 per cent of feedback forms, calls and emails raising this theme. Additionally, 10 per cent of these responses acknowledged that beyond the local community, the dam attracts visitors from elsewhere.

The amenity and recreational value of the dam area was characterised by the body of water itself, wildlife and the natural environment (as discussed above). The dam was also referred to as a part of the Fernleigh Track experience, with 26 per cent of responses expressing this view. During discussions and comments provided through feedback forms many community members acknowledged the need to address the ageing infrastructure of the dam, however it was generally felt that a body of water should remain at the site to continue to support the surrounding wildlife and flora, and to retain the amenity of the area.

The area was also referred to as a good offering for passive recreation, due to the ease of accessibility from the Fernleigh Track, particularly for those who are less mobile. This is discussed further in the safety and access section below.

Suggestions made to improve amenity in the dam area, include:

- Provide picnic tables
- Collaborate with LMCC to incorporate the proposed cycleway/shared path across the dam area (generally to avoid the cycleway being built along Lonus Avenue)

Historic values

Feedback indicated that the community value the history of the Burwood Colliery and the dam, and 35 per cent of responses referred to the dam's historic value. During discussions at the drop-in sessions, it was noted that some within the community are sentimental about the period when the colliery was operating owing to being a resident of the area at that time. Some residents shared photographs from their personal collections (see Figure 4.4 below). Some community members also shared stories of family members being employed at the colliery. Some respondents questioned whether the dam was heritage listed and if protection should be afforded to the dam in response to any potential proposed changes.

Suggestions were made that consultation should be carried out with the Aboriginal community, to understand cultural heritage within the area.

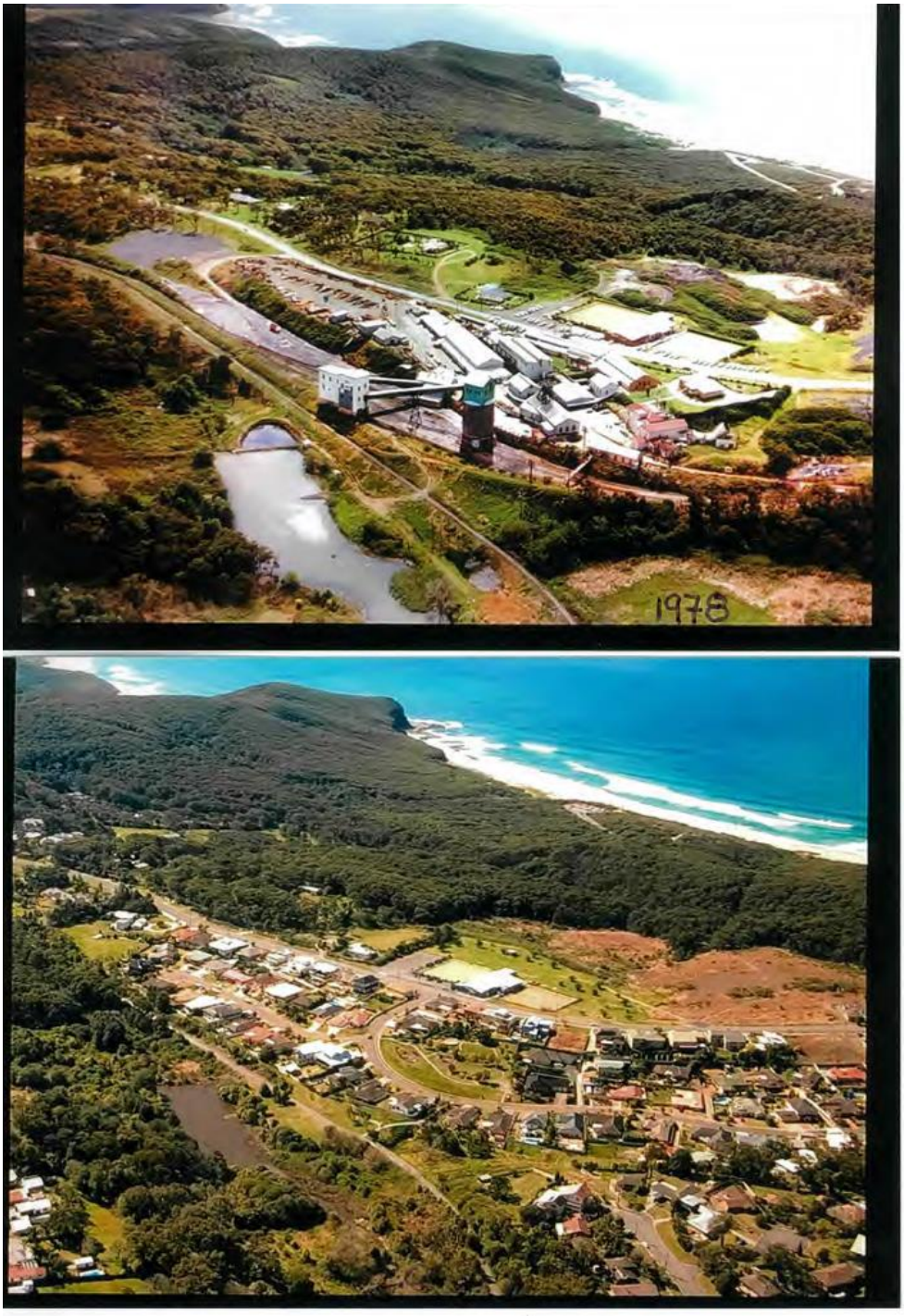


Figure 4.4 ***Then and now: aerial image showing north-west view of Burwood Dam in 1978 (top) and in 2021 (bottom) [photo courtesy of Andrew J Monger]***

Safety and access

Responses referring to the spillway providing access, in particular for Whitebridge High school students, were common, with 30 per cent of responses indicating this as a valued aspect of the dam (see Figure 4.5). Access was often linked to a feeling of safety and convenience for school children within feedback forms and during discussions at the drop-in sessions. The alternative route was referred to by some as too long, and at times "unsafe" due to the perception of additional "stranger danger" along or around the Fernleigh Track. Alternate access across the dam was suggested via a bridge (21 per cent) if the dam and spillway were to be removed. Many of these respondents also expressed that they felt that access across the spillway was "not a safety concern" or was "low risk", representing 10 per cent of the total responses.

Figure 4.5 Spillway used for access to Lonus Avenue and Whitebridge High School

Figure 4.6 Overtopping of the spillway during a rain event

Of the feedback received, 20 per cent raised concerns relating to safety of individuals who use the spillway to access the other side of the dam. Discussions during the drop-in sessions broadly indicated a mixed view on whether the spillway was a safe option for children to access the school. Many referred to the spillway being higher risk when wet, such as during rain events (see Figure 4.6). Those who felt the spillway crossing was a safety issue generally also felt that access should be retained at this location, however with the installation of safety measures.

Of the feedback received 20 per cent suggested to incorporate the access across the dam into a cycleway / shared path. While not within the scope of this project, the new cycleway connection proposed by LMCC along Lonus Avenue was raised frequently during consultation, and many made comment about the need to collaborate with LMCC about coordinating the proposed new cycleway routes in the area. In particular, the Burwood Dam location was identified as a key location to link (near Whitebridge High School) to the Fernleigh Track, and a new bridge over or near the dam as the link was suggested by many.

Access was also topical in discussion during the drop-in sessions, as well as those on feedback forms, where the dam is considered “part of the Fernleigh experience”. For those cycling or walking along the Fernleigh Track, the dam is considered an ideal spot for amenity and passive recreation. Some comments supported retaining the dam as it is an accessible location for those who are less mobile, including elderly people or people who live with a disability.

Suggestions made to improve safety and access at the dam area, include:

– Construct an improved pedestrian safety guardrail to act as a safety barrier when traversing the spillway
– Provide a formalised track/shared path from Lonus Avenue down to the dam
– If access is removed across the spillway, replace access with a bridge, boardwalk or shared path access instead
– Provide a bridge over the dam so the spillway is not used for access (also suggested to be incorporated into a shared path/cycleway by some)
– Put up “danger” signs when the area is flooded
– Collaborate with LMCC on opportunities to incorporate with planned and existing shared paths/cycleways

Other comments and suggestions

Some community members mentioned concerns about the contents of the dam, including the sediment and physical objects within the body of water. Some noted that there is possibly contaminated sediment at the bottom of the dam that has built up as a result of colliery and other human activities in the area. There were also some concerns raised about other, physical waste within the body of the water, including equipment possibly dumped during decommissioning of the colliery, and from the general public. In general, these concerns were raised in relation to the possible impacts to environmental value and biodiversity if works were to disturb sediment, water levels or waste.

In addition to the above key themes, here were a small number of relatively common themes or suggestions:

– The dam has value for stormwater retention (10 per cent of responses)
– The dam is important for managing bushfires (6 per cent of responses)
– Develop a maintenance program for the dam
– Provide a series of pools
– Collaborate with Transport for NSW (owners of adjacent land) to discuss the existing access track from Lonus Avenue to the dam
– Need to understand content of the sediment before any works
– Need to understand what physical waste is within the water body
– Collaborate with Hunter Water regarding maintenance

4.3 Consultation with Lake Macquarie City Council

Briefing to LMCC Staff

A briefing to several LMCC staff was provided on 6 September 2022. The briefing allowed GHD and CL to discuss the consultation carried out with the community on the future of Burwood Dam, as well as identify potential ways to collaborate.

Also discussed was the level of benefit the dam provides to stormwater retention in the area and capturing sediments in the system.

Briefing to LMCC Councillors

A briefing was provided to LMCC Councillors on 4 October 2022. The briefing allowed GHD and CL to inform councillors about the project and the consultation carried out with the community and answer any questions from councillors.

Councillors made several comments including indicating that the consultation to date was well done, asking about the potential interim raised walkway (proposed to improve safety), and about the level of flood mitigation provided by the dam.

4.4 Briefing to State Member

A briefing was provided to NSW Member for Charlestown, Jodie Harrison MP on 17 August 2022. The briefing allowed GHD and CL to inform the Member about the project and about the results of consultation carried out with the community.

5. Conclusion

The outcome of this consultation is that the community has predominantly expressed a clear preference to retain the dam, or at least, the water body currently held by the dam. The majority of respondents strongly value the wildlife, biodiversity and flora that the dam supports, for both environmental quality as well as contributing to the amenity and character of the area. These values are strongly linked to the passive recreation the area around the dam provides, and others feel the dam contributes to the Fernleigh Track, highlighting the recreational value of the dam for the local community and visitors. Many residents in the area value the dam for its historic character due to its link back to the old Burwood Colliery.

There were mixed views expressed regarding physical safety of those who use the spillway to cross the dam, in particular for students who use it to travel to school. Those who felt the spillway crossing was a safety issue generally also felt that access should be retained at this location, but with the installation of safety barriers or other measures to assist safety. Other alternatives were suggested to retain access at this point, such as bridges and boardwalks. Many suggestions were made to collaborate with LMCC to tie in with plans for shared paths in the area.

In the short term CL will be installing additional signage advising that access is not permitted, to discourage the use of the dam wall for access.

In the short to medium term, we will determine the steps required to develop concept options for the future of the dam and investigate the status of land adjacent to the dam and the potential for the use of that land for a shared footpath and crossing.

CL will consult with the community again on any future plans about the dam.

Appendices

Appendix A

Letter Box Notification Flyer

Community Consultation
Burwood Colliery Dam - Fact Sheet

We want your opinion on the future for Burwood Colliery Dam

The NSW Department of Planning and Environment – Crown Lands, is investigating the removal of the dam and rehabilitation of the land to a near natural state. Community consultation is being undertaken to understand viewpoints and ideas for how the site could be used in the future. We encourage input from the public and wish to consult with all stakeholders to understand opinions and any issues.

Overview

The Burwood Colliery Dam was constructed in the late 1800s in Whitebridge, Lake Macquarie. It is just west of the Fernleigh walking and cycling track, near Whitebridge High School. Burwood Colliery Dam no longer operates as a water supply dam. As a result, Crown Lands will investigate the removal of the dam and rehabilitation of the land to a near natural state.

The dam currently acts as part of the local stormwater system, reducing the concentration and speed of stormwater flows. This means sediment in the stormwater is deposited into the dam. It is likely the dam will eventually silt up and become swampy land, like an artificial seasonal wetland. Major and costly repairs would be required to extend the life of dam structures, including the wall and spillway. Ongoing maintenance and monitoring would also be required to avoid dam failure which, if occurred, could result in environmental damage.

Because the spillway is currently unguarded and can be accessed by the public, Crown Lands will install safety barriers on either side in the short term (late 2022) to improve public safety.

Figure 1. Part of the dam spillway.

Community Consultation

Crown Lands is seeking to identify sentiments towards the dam removal, opportunities for the future site and to seek ideas to mitigate any negative impacts. Crown Lands have appointed local consultants GHD to support with community and stakeholder engagement.

Feedback will also cover the amenity the dam provides and to understand its use as short-cut route to Whitebridge High School. Crown Lands is committed to genuine consultation with the local community, the local council and other stakeholders on this project. We encourage the community to make enquiries or share feedback. The community engagement team can be contacted in the following ways: By phone: 1800 066 243. By email: contact@ghd.com

Project information is available on the website. Scan the QR code or browse to:
https://www.industry.nsw.gov.au/lands/public/on-exhibition/burwood-colliery-dam

Come to a drop-in session

Come and speak to a team member about this proposal and find out more.

Where: Whitebridge High School Hall
Date: Tuesday 16th August
Time: 3:30pm to 5:30pm
or 6:00pm to 8:00pm.

Figure A.1 Flyer for Letter-box distribution

Appendix B

Approximate Distribution Area of Letter Box Notification

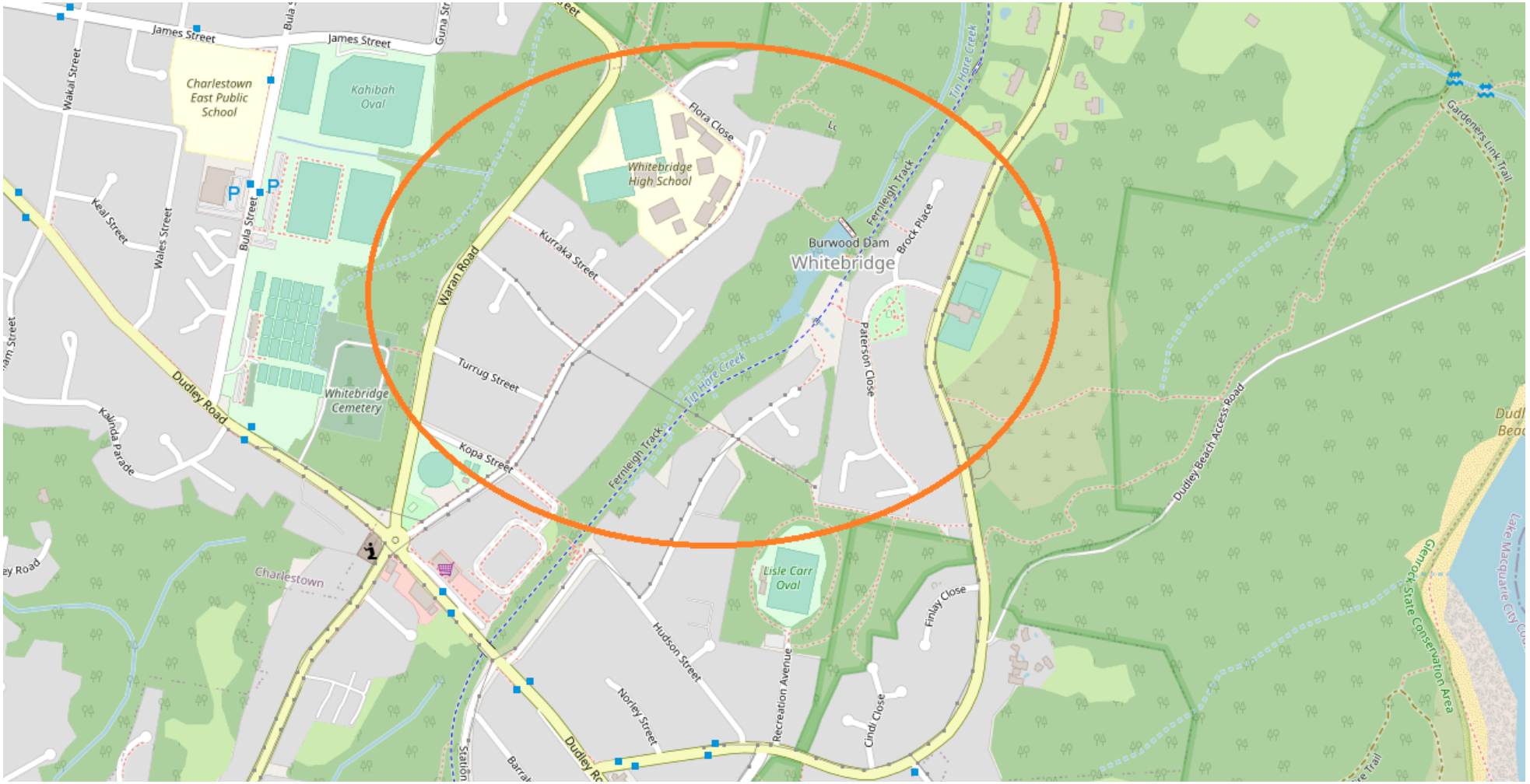


Figure B.1 Approximate distribution area of the letter-box notification

Appendix C

Summary of Consultation outcomes

Feedback method	Keep it / maintain it	No preference stated	Remove it / back to "natural state"	Wildlife / biodiversity / flora	Amenity / recreational value	Safety concern	Not a safety concern / low risk	Access to highschool valued	Heritage value	Stormwater retention value	Dam is part of Fernleigh experience	Consultation process - bad	Consultation process - good	Existing / planned shared path	Build a bridge over dam	Pond attracts attracts visitors	Important for managing bushfires	Notes / sugesstions / other comments:
call	Yes			Yes	Yes		Yes											
call	Yes			Yes	Yes													Good recreation option for people with a disability
email	Yes			Yes	Yes	Yes		Yes								Yes		Should be linked to Fernleigh Track
email	Yes			Yes														
email	Yes								Yes									
email	Yes							Yes							Yes			Bridge should be built from Paterson Close
email			Yes						Yes									Recommends there should be Aboriginal consultation
email	Yes			Yes	Yes													
email	Yes			Yes	Yes			Yes	Yes	Yes	Yes	Yes					Yes	
email			Yes	Yes	Yes	Yes					Yes						Yes	
email	Yes			Yes	Yes						Yes					Yes		
email		Yes						Yes										submitted photc
email	Yes			Yes	Yes													Suggests that just the bottom end of the pipeline be closed not the whole dam
email	Yes						Yes								Yes			thinks taxpayers would be happy to pay for any needed maintenance
email	Yes					Yes		Yes					Yes		Yes		Yes	
email	Yes			Yes	Yes				Yes									
email	Yes			Yes	Yes				Yes	Yes								It cools environment, Hunter Water should help with cost
email	Yes			Yes	Yes		Yes	Yes	Yes	Yes	Yes							money could be used elsewhere, volunteers could help with maintenance
email	Yes			Yes					Yes									
email	Yes			Yes														
email	Yes				Yes						Yes							

email			Yes	Yes		Yes												slowly decommission it over 20-50 years, use money on better things
Feedback form	Yes			Yes	Yes													
email	Yes			Yes				Yes	Yes									link walkway, Fernleigh track and school
email	Yes			Yes	Yes		Yes	Yes	Yes				Yes			Yes		move dam to 70 Burwood, use a danger sign in wet weather
call	Yes			Yes														Munitions at bottom of dam, disposed of by the colliery
call	Yes			Yes	Yes			Yes			Yes		Yes	Yes	Yes	Yes		Noted that any contaminants in the dam pond would also be a result of residents dumping misc things into the dam over the years (resident of over 60 years)
Feedback form	Yes			Yes		Yes			Yes									picnic tables
Feedback form	Yes			Yes	Yes				Yes									should be heritage listed
Feedback form	Yes			Yes														remove invasive plants, improve water quality
Feedback form	Yes			Yes	Yes	Yes					Yes			Yes				combine with cycle way. Construct new wall, anti Lonus ave track idea
Feedback form	Yes				Yes	Yes					Yes							flat mesh walkway/tendons should be considered
Feedback form		Yes		Yes														existing survey data for area at UON
Feedback form	Yes					Yes		Yes	Yes	Yes	Yes			Yes	Yes			
Feedback form	Yes			Yes					Yes									

Feedback form		Yes										Yes						meeting was waste of time and resources
Feedback form	Yes			Yes	Yes													
Feedback form	Yes			Yes														
Feedback form	Yes					Yes		Yes			Yes			Yes		Yes		don't do cycleway along lonus, allow fernleigh access, behind Flora close, kolbury close, warren road
Feedback form	Yes																	focus on improvements, cost isn't that high
Feedback form		Yes						Yes						Yes				anti bike track along lonus, thinks cycleway for school access is more important
Feedback form	Yes							Yes							Yes			LMCC must implement plan of wider setback for creek, crown land should have more info to justify cost
Feedback form	Yes								Yes									
Feedback form	Yes			Yes	Yes					Yes								cost of repair and cost of removal are the same
Feedback form	Yes			Yes				Yes	Yes									
Feedback form	Yes			Yes					Yes					Yes				cost of repair and cost of removal are the same, provides dudley/charlestown link, establish a group to do ongoing maintenance
Feedback form	Yes			Yes	Yes			Yes	Yes		Yes			Yes	Yes			anti lonus cycleway idea, link it to FT , gives access to charlestown, should have signage, what about toxic sediement being released to glenrock

Feedback form		Yes												Yes	Yes			
Feedback form	Yes			Yes	Yes									Yes				
Feedback form	Yes			Yes	Yes	Yes		Yes										cheaper to upgrade than demolis, dam won't silt up/raise to level being guessed at, wants to see enviro reports before work starts
Feedback form	Yes			Yes	Yes			Yes	Yes					Yes	Yes			should be heritage site, join it to FT
Feedback form	Yes			Yes	Yes	Yes								Yes				repair spillway to improve safety
Feedback form	Yes			Yes	Yes				Yes	Yes				Yes	Yes			toxic material at bottom of dam, suggests dredge the dam and move it, volunteers can manage it, have proper maintenance plna, don't just react
Feedback form	Yes			Yes	Yes													do ecology study
Feedback form	Yes			Yes	Yes			Yes	Yes		Yes			Yes	Yes			do a study, connect to FT - bike track from dudley to charlestown
Feedback form	Yes			Yes	Yes			Yes	Yes		Yes			Yes				join to cycleway (dudley/charlestown)
Feedback form	Yes							Yes	Yes		Yes			Yes				better school access from charlestown/dudley path
Feedback form	Yes			Yes	Yes	Yes									Yes			construct safety barrier
Feedback form	Yes			Yes	Yes	Yes		Yes	Yes		Yes		Yes					what is current maintenance program, why now?
Feedback form	Yes			Yes	Yes	Yes												
Feedback form	Yes			Yes	Yes	Yes				Yes					Yes	Yes		
Feedback form	Yes			Yes	Yes													
Feedback form	Yes			Yes	Yes			Yes			Yes					Yes		Reinforce dam or use steel grate

Feedback form	Yes			Yes	Yes		Yes								Yes			
Feedback form	Yes			Yes			Yes	Yes			Yes							
Feedback form	Yes			Yes	Yes				Yes									
Feedback form	Yes			Yes											Yes			
Feedback form	Yes			Yes	Yes						Yes				Yes			distubance of toxic sludge at bottom of dam, doesn't belive that maintenance costs are currently high, can't go back to old conditions
Feedback form	Yes			Yes	Yes						Yes							
Feedback form	Yes			Yes	Yes		Yes											
Feedback form	Yes			Yes														
Feedback form	Yes			Yes	Yes			Yes	Yes		Yes							do maintenace and add facilities
Feedback form	Yes			Yes	Yes		Yes		Yes						Yes	Yes		
Feedback form	Yes			Yes	Yes				Yes									do a boardwalk or a series of pools
Feedback form	Yes			Yes	Yes	Yes												maintenance, advertise to wider newcastle
Feedback form	Yes			Yes	Yes												Yes	
Feedback form	Yes			Yes	Yes				Yes		Yes						Yes	where is maintanence money going? Local landcare group can help look after it
Feedback form	Yes																	doesn't think there is sediment buildup
Feedback form	Yes			Yes	Yes									Yes				make a safe crossing, pro lonus avenue/FT track
email	Yes			Yes	Yes					Yes								
Percentage of total responses	**90%**	**6%**	**4%**	**78%**	**60%**	**20%**	**10%**	**30%**	**35%**	**10%**	**26%**	**3%**	**5%**	**20%**	**21%**	**10%**	**6%**	

ghd.com

The Power of Commitment