



SOUTH32 WORSLEY ALUMINA MINE CLC MEETING

19 November 2024

AGENDA

Item	Description	Presenter
1	Open meeting and note apologies	G Cavanagh
2	Acknowledgement of Country	South32
3	Read and accept previous minutes Review actions and responses	G Cavanagh
4	Voconiq – South32 Worsley Alumina Community Survey Outcomes	K Moffat
5	Worsley Business Update • General Business • Boddington Mine • Worsley Mine Development • Approvals • Hotham River Crossing • Environment • Community	Various
6	Discussion and members' updates • B Metcalf items tabled for discussion	All
7	Any other business	G Cavanagh
8	Review actions from meeting	G Cavanagh
9	Arrangements for 2025	G Cavanagh
10	Close meeting	G Cavanagh

WORSLEY BUSINESS UPDATE



Full Year Results & Annual Reporting Suite FY24 released 29 August 2024

Completed divestment of South32's 50% interest in Eagle Downs metallurgical coal project 13 August 2024

Illawarra Metallurgical Coal sold to Golden Energy & Resources Pte Ltd & M Resources 29 August 2024

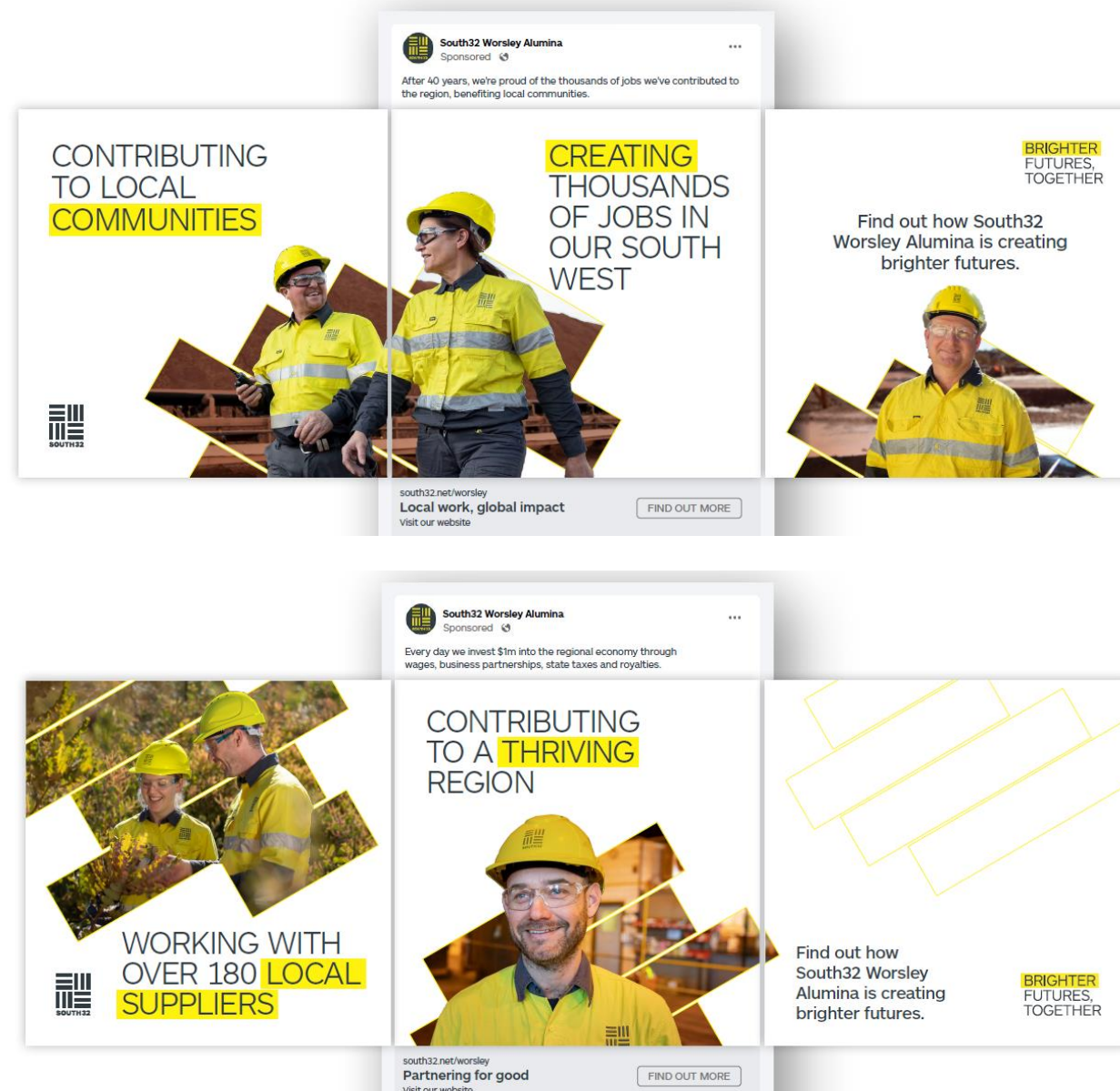
South32 Worsley Alumina achieved Aluminum Stewardship Initiative (ASI) Chain of Custody (CoC) Standard V2 (2022) Certification for its operations at Boddington Bauxite Mine, Worsley Alumina Refinery (Collie) and port facility in Bunbury in September 2024.

- The ASI CoC Standard V2 sets out requirements for the creation of a Chain of Custody for material that is produced and processed through the value chain into diverse downstream sectors. The implementation of ASI's CoC Standard links verified practices at successive steps of the supply chain – certified under the ASI Performance Standard – to the materials produced by ASI Certified Entities.
- The CoC Standard also confirms that appropriate policies and due diligence processes are in place to identify and address critical issues, such as corruption, human rights abuses, materials originating from conflict-affected and high-risk areas in the supply chain and support responsible sourcing.
- The independent, third-party audit of the South32 Worsley Alumina facility was carried out by KPMG Australia. No non-conformances were identified during the audit.

Quarterly Report released 21 October 2024

South32 entered into an agreement to acquire 19.9% interest in Amercian Eagle Gold Corp (AEG) on 11 November 2024

AEG holds an option to acquire a 100% interest in the Nakinilerak (NAK) exploration project, located in the Babine copper-gold district in British Columbia, Canada.



WORSLEY MINE & MATERIALS UPDATE

Safety

- Good performance with regards to safety.
- Safety Training for all levels of staff (Lead Safely Every Day) commenced
- Some good work happening with our vehicle/pedestrian and vehicle/vehicle interaction

Production

Total Material Movement on track YTD for the mine – still seeing challenges with grade

Conveying – remediation work paying-off. Total conveyed tonnes for the month of October exceeded budget.

People

- Regular visits at the Mine by COO and VP offering support
- Shire of Boddington Council Site visit and rehab tour
- National Party Site visit and rehab tour
- JV partner visits to the mine.
- Recruitment continues as we try to fill vacancies with a preference for local (Boddington, Williams and Wandering) applicants – SWP, HAYS and Full-time
- 40th anniversary employee events

WORSLEY MINE ENABLING INFRASTRUCTURE PROJECTS

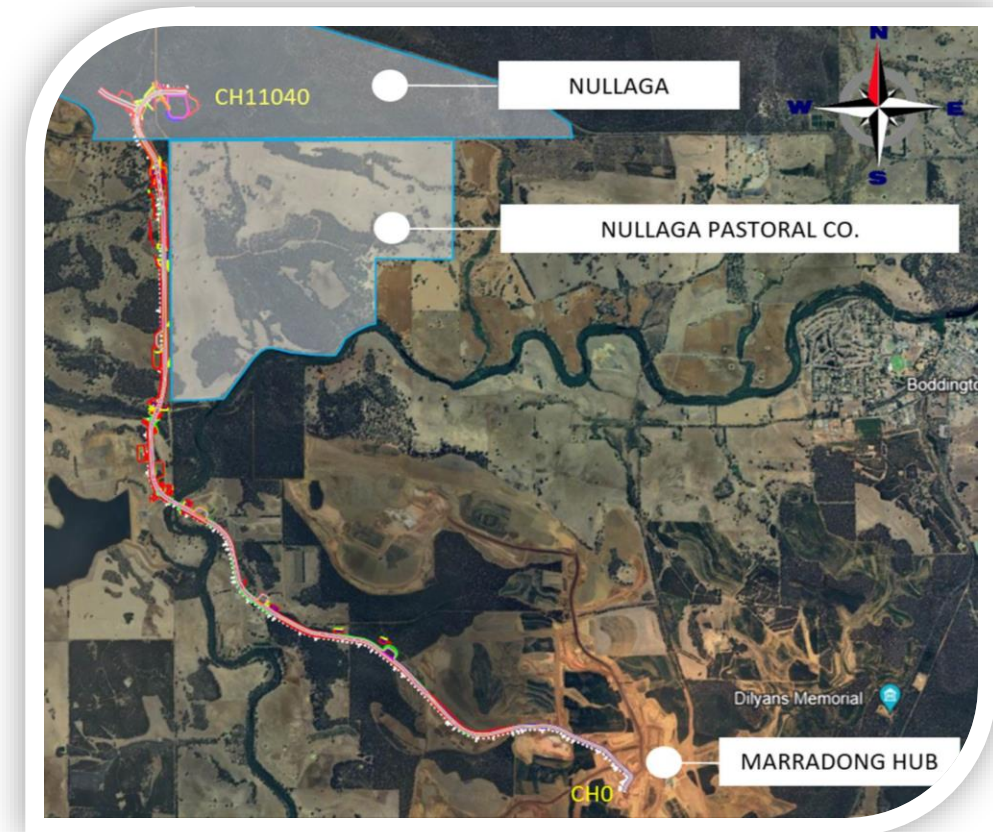
The Nullaga Mine Development Project will deliver ~11km of haul road and a bridge over the Hotham River to connect mining areas to existing infrastructure (Marradong crusher and OLC).

The Nullaga Project provides access to:

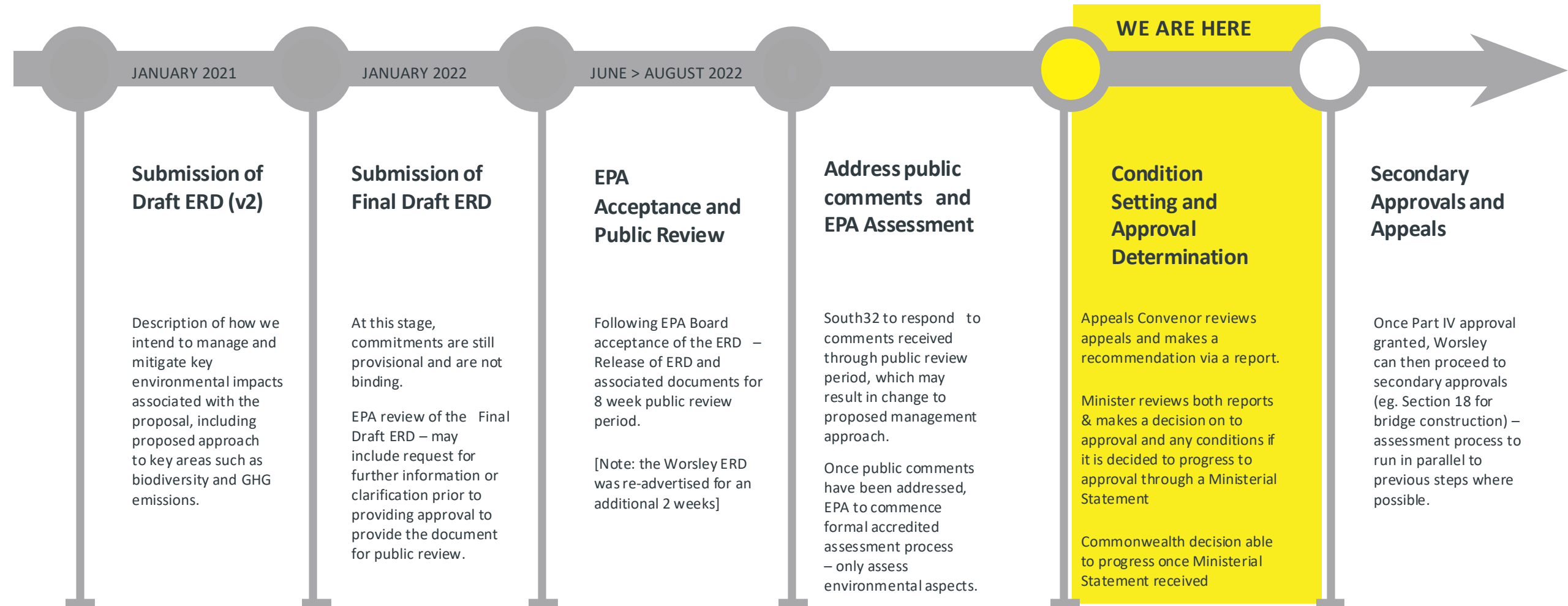
- 26Mt (dry) bauxite ore in the Nullaga mining area
- 18Mt (dry) of ore in the Nullaga Pastoral Company (currently subject to heritage approval)
- Is an enabling project to provide access for future northern mining areas
- Utilises existing infrastructure at Marradong for crushing and then conveying to the refinery

Additional Works:

- Demolition of three (3) houses along Morts Road
- A Non-Process Infrastructure facility comprising:
 - Cribs and ablutions facilities
 - Park-up area for various Heavy Mining Equipment and Light Vehicles
 - Water infrastructure
 - Fuel facilities
- Borefields development
- Communications and water storage requirements
- Installation of boundary fencing



WORSLEY APPROVALS UPDATE

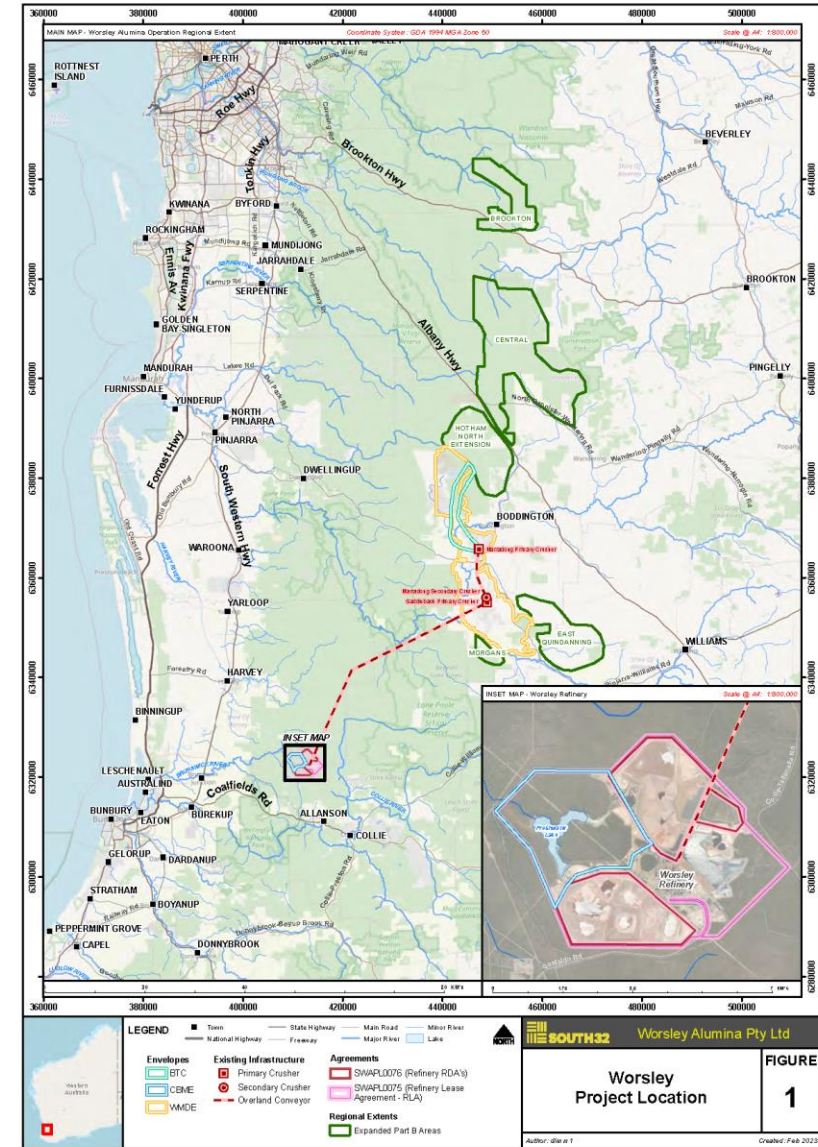


WHAT'S BEEN HAPPENING?

- EPA Board released their report recommending approval with Conditions (July 2024)
- Appeals process was open for 21 days – closed 29 July 2024
- Appeals Convenor now considering the appeals received

WHAT'S NEXT?

- Appeals Convenor writes a report and submits to the Minister (~Dec 2024)
- Minister progresses application in accordance with recommendations (~Dec 2024)
- Commonwealth (DCCEEW) commence assessment utilising EPA Report (Follow state approval, if granted)
- Ministers (State and Commonwealth) make decision on application – different processes & different timelines



DILYAN'S CROSSING – HISTORY AND APPROVALS

- **Heritage assessments undertaken**

- 2017 (Archaeological & Ethnographic) – recommended crossing location
- 2019 (Archaeological Survey) – surveyed recommended crossing
- 2020 (Consultation Survey) – provided info on construction and sought input
- 2023 (Survey conducted in accordance with NSHA) – final survey to support submission of s18 Application

- **Geotechnical investigations**

- 2020 Stage 1 Geotechnical investigations (surrounding paddocks)
 - > Approved Program of works (DEMIRS)
 - > S41 notification (DWER/EPA-S)
- 2022 Stage 2 Geotechnical investigations
 - > Approved Program of works (DEMIRS)
 - > S41 notification (DWER/EPA-S)
 - > Reg 7 & 10 (DPLH)
 - > 0.14ha of clearing
- 2024 Stage 3 Geotechnical investigations
 - > Approved Program of works (DEMIRS)
 - > S41 notification (DWER/EPA-S)
 - > Section 18 (Minister for Aboriginal Affairs)



Photograph 1: Low open woodland to low open forest of *Eucalyptus rudis*-*Melaleuca raphiophylla* on the Hotham River near the proposed Nullaga Bridge crossing, 2021



Photograph 2: Low open woodland to low open forest of *Eucalyptus rudis*-*Melaleuca raphiophylla* on the Hotham River near the proposed Nullaga Bridge crossing, 2021

DILYAN'S CROSSING - INVESTIGATIONS

2020 Investigations

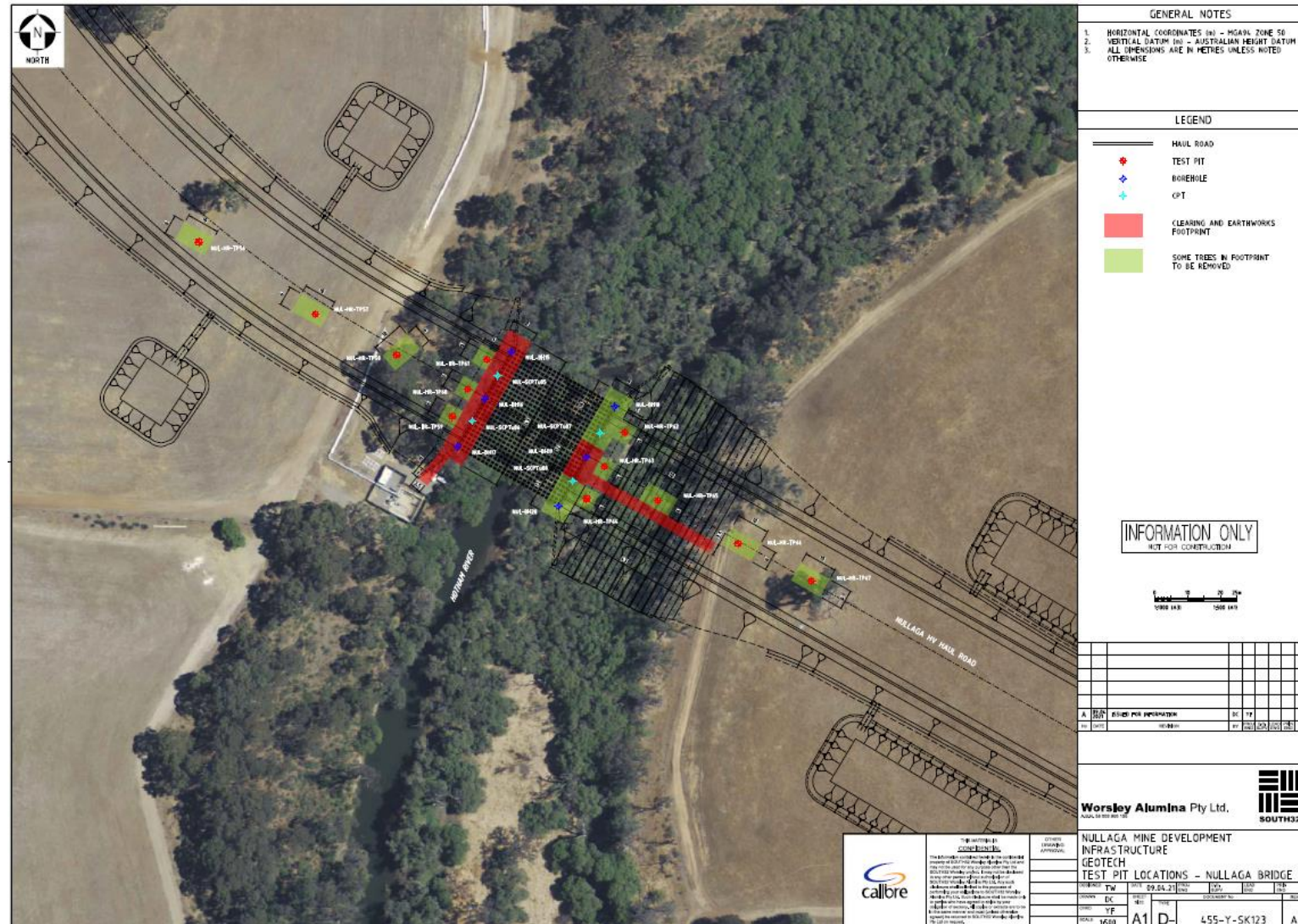
- Included river and road crossing locations, including the Hotham River: test pits; boreholes to bedrock; cone penetration testing to refusal

2021/22 Investigations

- At Hotham River crossing: test pits; boreholes; direct push probe; cored boreholes; pressuremeter testing; cone penetration test; acid sulfate soil assessment

2024 Investigations

- At Hotham River: Cored boreholes to bedrock
- To ensure design is compliant with AS 5100.1-2004



DILYAN'S CROSSING – INVESTIGATION WORKS

Approvals

- All work is investigatory and will support the final design of the bridge. The preferred bridge location was provided by the Traditional Owners
- A section 18 Authorisation is in place for works associated with the tenement, to facilitate investigatory and future construction activity
- In accordance with the section 18 Authorisation, written notification, requesting monitors, was provided to GKBAC on 16 May 2024
- Notification to DWER was provided in accordance with section “3.4.1 Investigation work” of the EPA’s *Environmental Impact Assessment (Part IV Divisions 1 and 2) Procedures Manual*. This was confirmed by DWER as appropriate notification for the work
- Construction cannot commence until if/when the Revised Proposal Approval is granted
- The bridge location and construction work has been assessed as part of the Revised Proposal. EPA have recommended approval of the Proposal with conditions, indicating that with the required conditions, the assessment is adequate

Other

- No water is being taken from the Hotham River to facilitate this work

DILYAN'S CROSSING - WORKS

2024/25 Activity

- Supplements and builds on information gathered in 2022; requiring up to 12 cored boreholes to be drilled up to 75m (to support Australian standards bridge design) – further information required on competency of the basement rock
- No clearing required – re-establishment of drill pads and access tracks over the same footprint as the 2022 investigation
- 2 Heritage monitors engaged to be on site each day that drilling is being undertaken



BRIDGE DESIGN



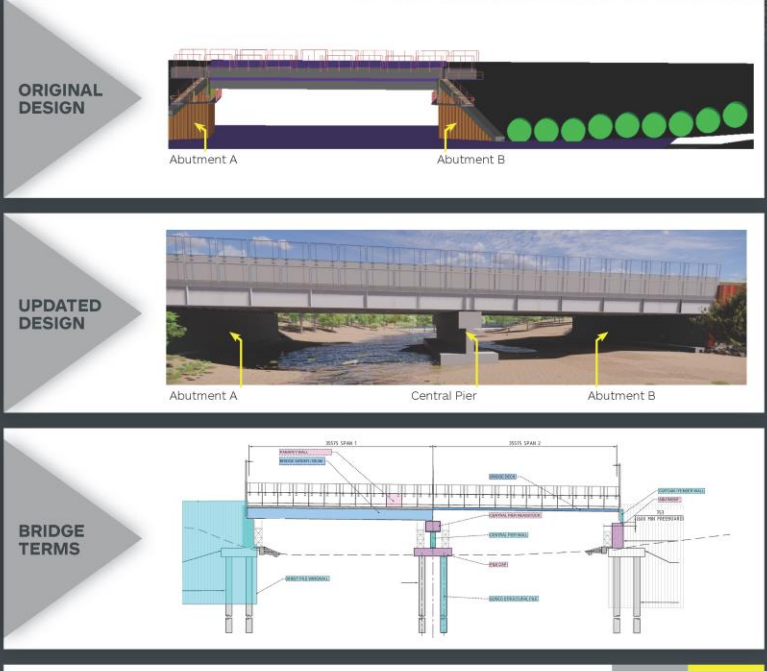
Worsley Alumina

DILYAN'S CROSSING DESIGN UPDATE

DECEMBER 2023

South32 Worsley Alumina is committed to providing updates on Worsley's projects; this information provides an update of some improvements to the design of the proposed Dilyan's Crossing across the Hotham River in Boddington.

Consistent with the discussion and recommendations made during the heritage surveys, the location of the bridge has not changed, and the construction of a crossing is still required for the haul road between the existing and new bauxite mining areas. The design changes have been informed by Worsley's geotechnical investigations conducted at the crossing location which provided Worsley with additional information that allowed improvements to the bridge design.



OTHER* SECONDARY APPROVALS – WIDER PROPOSAL AREA

Secondary approvals are approvals required from Government Agencies that will support the implementation of the Revised Proposal, examples of the approvals are outlined below.

Submitted (Pre Sept)

- Works approval – Mobile Crushers & Oil water separator (6887/2024/1)
- Bed & Bank Permit – Hotham River & 34 Mile Brook

Submitted (Sept – Nov)

- Bed & Bank Permit – Wattle Hollow Brook
- Mining Proposal – L70/223

To be Submitted (Nov – Dec)

- Works Approval – Mobile Crushers for Road construction
 - Includes submission of a Noise Management Plan, which also applies to previously submitted Works Approval (6887/2024/1)
- 5C licence to take groundwater (seepage related to bridge construction)
- 5C licence to take surface water (seepage related to bridge construction)
- Section 40 Authorisation (Biodiversity Conservation Act 2016) for areas outside of the current approved area

* This does not represent an exhaustive list of secondary approvals, rather those that may be of interest to the wider community

**Many secondary approvals cannot be granted until if/when the Revised Proposal has been approved
As stipulated by section 41 of the *Environmental Protection Act 1986***

OTHER SUBMISSIONS / SUPPORTING INFORMATION

Noongar Standard Heritage Agreement (21 Aug 2024)

- Agreement between GKBAC and Worsley for ILUA wide, Worsley Operation, arrangements related to heritage

Annual Environmental Report (30 Sept 2024)

10 Year Mine Plan (31 Oct 2024)

Environmental Management Plans – Updated/drafted and submitted to regulators for review & feedback

- Water Management Plan
- Local Offset Environmental Management Plan
- Construction Environmental Management Plan
- Flora & Vegetation Environmental Management Plan
- Conservation Significant Fauna Environmental Management Plan

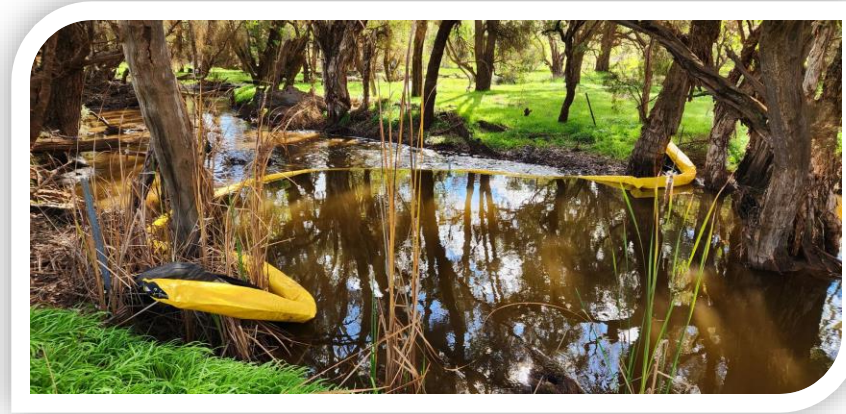
Approvals submitted which can be provided prior to if/when the Revised Proposal is Approved:

- POW application (several)
- Section 41A application for early works (laydown to support crossing development)
- Small Mining Operations Mining Proposal (laydown to support crossing development)
- Section 40 Authorisation (x2) (*Biodiversity Conservation Act 2016*) which applies to current approved area

WORSLEY ENVIRONMENT UPDATE

Marradong Brook

- Work has commenced on the Marradong brook haul road crossing. With major sump replacement and haul road entries being realigned. Next steps include cleaning out the culverts and redirecting flow away from the bridge surface. The silt curtain will remain in place during summer to account for any possible storms and silt movement during the cleanout process.



Rehab

- Preparation is underway for the 2025 rehabilitation season with recalcitrant and tree seedlings currently being grown in nurseries.
- 300 Ha is the rehabilitation target for 2025.

Spring Surveys

- 2024 Spring surveys included targeted surveys for the Quindanning Orchid, Mustard Orchid (*C. caeseara* spp 'Mooradung'), Dwarf Bee orchid, Narrogin Pea, and priority Hibbertia and Halganina across targeted habitat ranges. Results of the orchid surveys have expanded the known population of the Quindanning orchid and identified another population of the Mustard orchid.
- Rechecks of the known high potential or previously confirmed cockatoo hollows is underway, with a previously recorded high potential tree having a chick confirmed within the hollow.



WORSLEY ENVIRONMENT UPDATE

BIODIVERSITY OFFSET

Hog Hollows

- Establishment of 40 hollows – using a “hog hollow” tool
- Targeting small mammals such as red tailed phascogale, honey/pigmy possums, brush tailed phascogale
- Monitoring planned (cameras) to see if they are investigated/used

Mammal dens & artificial habitats

- Trialing artificial mammal dens & refuges for small animals/reptiles

Artificial Hollows – Black Cockatoos

- Assessment of ex-Gibbs property to determine appropriate locations for artificial hollows (at least 313 Grade A trees)
- Alternative hollow design



WORSLEY ENVIRONMENT UPDATE

Research

- Quindanning orchid pollination, fungi and seed collection occurred on the remaining populations. The population in Mooradung NP senesced early making collection difficult. Seed have been placed into cryo-preservation, while the fungi is being grown in cultures and is being compared to the collection from last year.
- Seed research proposal with Curtin University and Alcoa in development, this will examine the dormancy breaking options within the Ericaceae family. Processes outlined by a previously supported PhD with Persoonias shows early signs of replication, however attempting to reduce the treatment timeframes and wet dry cycles, down from a two-year process.



Fox Baiting Trial

Three rounds of an annual ground baiting trial for foxes on the eastern side of Marradong and Saddleback has occurred. The baiting program uses Canid injectors as a way of reducing by-catch. Early signs show foxes are engaging the baits, however remote cameras show ravens and ants are the biggest thieves so far, removing the baits before foxes can take them. New delivery methods to be trialed over summer months as food resources become less available and bait uptake is expected to increase.



WORSLEY COMMUNITY UPDATE

- Monthly rehabilitation tours continuing.
- South32 Local Voices – Community survey outcomes presented to the two CLC's and will be shared via email to those who participated in the survey and promoted through our social media channels.

Community Investment

- SoB Social Investment Agreement - \$2.5M over 4 years
- Community Grants Round 2 Outcomes (29 funded):
 - 2 Boddington (only 2 received)
 - Boddington Community Resource Centre
 - Boddington Community Newsletter
 - 1 Wandering (only 1 received)
 - Wandering Boddington Clay Target Club
 - 1 Williams (only 1 received)
 - Williams Campdraft Club
 - 3 Pinjarra/Murray
 - 3 Harvey
 - 5 Collie
 - 1 Mungalup (Shire of Collie)
 - 1 Ferguson (Shire of Dardanup)
 - 10 Bunbury & Greater Bunbury

Community Complaints

- 8 complaints FY25, Q1
- All the complaints related to BBM
 - 6 complaints related to noise
 - 1 complaint related to incorrect blast information
 - 1 complaint related to plant lighting

WORSLEY COMMUNITY LIAISON COMMITTEE

CLC Committee commitment:

The Mine CLC is the core ‘community’ representative body for the communities surrounding the mining operation. Members act as a proxy for the broader community of Boddington and surrounding areas. The CLC’s purpose is to act as a two-way discussion and engagement mechanism between Worsley and the community.

To support this purpose, Worsley commits to:

- Provide clear and transparent information about the operations, key issues, and other risks and opportunities that are of interest to the community. *However, this does not include sharing all specific details about projects and activities.*
- Seek regular feedback on the quality of the relationship between the operation and the community and how the operation is performing in the community.
- Listen, investigate, remedy and close out issues important to the community that directly result from the Worsley operation.
- Consult with members about the Social Investment activities.

CLC Minutes – Provided approximately one week before the next meeting, to be endorsed at the following meeting prior to sharing externally.

MEETING SCHEDULE 2025

Proposed meeting dates for 2025:

- 18 February - Williams
- 20 May - Williams
- 19 August - Quindanning
- 18 November - Boddington

