

HumeLink

Technical Report 12 - Surface Water and Groundwater Impact Assessment Addendum

Transgrid

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Executive Summary

Transgrid proposes to increase the energy network capacity in southern New South Wales (NSW) through the development of around 365 kilometres (km) of new 500 kilovolt (kV) high-voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle. This project is collectively referred to as HumeLink. The project would be located across six Local Government Areas (LGAs) including Wagga Wagga City, Snowy Valleys, Cootamundra-Gundagai Regional, Upper Lachlan Shire, Yass Valley and Goulburn Mulwaree.

An Environmental Impact Statement (EIS) was prepared to support Transgrid's application for approval of the project in accordance with the requirements of Division 5.2 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The EIS was placed on public exhibition by the NSW Department of Planning, Housing and Infrastructure (DPHI) (formerly the NSW Department of Planning and Environment (DPE)) for a period of 42 days, commencing 30 August 2023 and concluding 10 October 2023.

Since the public exhibition of the EIS, a few amendments and refinements have been proposed. The main purpose of this report is to assess the potential surface water and groundwater impacts from construction and operation of the amended project.

The study area for the assessment comprises the amended project footprint plus a one kilometre buffer. The key changes to potential surface water and groundwater impacts between the EIS project and the amended project include:

- updated erosion hazard from the EIS for the amended project footprint, including changes to the transmission line corridor and access tracks.
- inclusion of additional infrastructure in the impact assessment, including nominated access tracks, additional telecommunications connections to existing substations, construction compounds and combined worker accommodation facilities and construction compounds.
- inclusion of potential controlled blasting locations and an assessment of their proximity to sensitive environments.
- identification of access track waterway crossings and their proximity to waterfront land (ie with 40 metres of a waterway).
- additional site inspections to survey waterways with a Strahler order 4 or above and that intersected or are in proximity to the amended project footprint.
- refined/updated construction water demand estimates and the development of performance-based criteria to support assessment of potential non-potable and potable water sources.

The amended project footprint traverses four major surface water catchments: the Hawkesbury-Nepean River, Lachlan River, Murrumbidgee River and Upper Murray River catchments. The amended project footprint crosses many waterways ranging from ephemeral drainage lines to major rivers. The amended project footprint overlies five groundwater sources, including the Kyeamba Alluvial, Gundagai Alluvial, Lachlan Fold Belt (Murray Darling Basin), Lachlan Fold Belt (Greater Metropolitan) and Yass Catchment Fractured Rock groundwater sources.

The catchments and groundwater sources intersected by the amended project footprint are unchanged from the EIS project, although the groundwater source previously referred to as the Goulburn Fractured Rock in the EIS is now referred to as the Lachlan Fold Belt (Greater Metropolitan) groundwater source in line with the updated Water Sharing Plan for Greater Metropolitan Region Groundwater Sources 2023. In the EIS project, only one accommodation facility was located in the Upper Murray catchment (this facility has subsequently been removed from the amended project), however, in the amended project one kilometre of transmission line and associated access tracks would be located in this catchment. Apart from the Upper Murray catchment. the lengths of the transmission line corridor located in each catchment are about the same.

The waterways impacted by the transmission line corridor are essentially the same for the amended project compared to the EIS project, however, in some cases the locations of impact have changed or the transmission line corridor has been moved further away or closer to waterways.

The most substantial changes in waterway impacts are due to the nomination of additional access tracks and changes in construction compounds and worker accommodation facilities.

Construction impacts on surface water

The following potential construction impacts on surface water were identified:

- Erosion risk and sedimentation impacts Erosion risk within the amended project footprint varies considerably depending on the soil type, terrain steepness and the average annual rainfall at specific locations. Disturbance of the ground through vegetation removal, earthworks and other construction activities would pose the greatest risk to surface water. Construction activities in proximity to waterways would increase erosion risk. For the purposes of the assessment, buffer distances were identified around waterways and the potential soil erosion categorised for areas within the amended project footprint. The sensitivity of a location was determined based on whether it was within a buffer zone of a waterway and its potential soil erosion category. Project components and the type of construction activities were then also considered in deriving an impact significance. For amended project components such as the access tracks, transmission line easement and structures, a range of impact ratings were identified depending upon specific locations. About 74 per cent of the amended project footprint is considered to have a low risk of erosion and sedimentation impacts on surface waters, 24 per cent moderate risk and 2 per cent high risk. While there was a decrease in the proportion of high risk areas between the amended project and the EIS project, there was a substantial increase in the area potentially impacted due to the nomination of access tracks. For other amended project components that have a discrete location (ie substations), a site-specific impact significance was determined – which was generally of low to moderate impact significance. The different impact significance outcomes for different locations would be used to determine the soil and water management measures including erosion and sedimentation control during construction.
- Geomorphology impacts Potential impacts on geomorphology would be primarily related to erosion risk and sedimentation impacts (ie sediment being washed into waterways) and therefore the risk profile, impact significance and mitigation measures would be the same as erosion risk and sedimentation impacts. An additional risk (compared to the EIS project) to geomorphology would be waterway crossings associated with nominated access tracks. New tracks and upgraded tracks have the largest potential impact to waterways due to required ground disturbance activities. Where these access tracks are within waterfront land, this would have a moderate risk of impacts. Where these access tracks cross waterways, these would have a high risk of impacts. These potential impacts would be managed through implementing appropriate design guidelines and mitigation measures.
- Water quality impacts The major potential impacts on water quality would be primarily related to erosion risk and sedimentation. Therefore, the risk profile, impact significance and mitigation measures would be the same as erosion risk and sedimentation impacts. The change in location of construction compounds, and additional combined worker accommodation facilities and construction compounds (compared to the EIS), which would include concrete batching plants, and associated materials and chemicals/fuel storage and use would also impact on water quality at a localised level. All construction compounds, and combined worker accommodation facilities and construction compounds have been located outside vegetated riparian zones of Strahler order waterways classified 4 or higher which are generally perennial waterways with a high likelihood of containing key fish habitat. However, due to the increase in the number of construction compounds and combined worker accommodation facilities, as well as the inclusion of the access tracks, the potential risks to water quality have increased with the amended project compared to the EIS project.

■ Water supply impacts – Approximately 715 megalitres (ML) of water is estimated to be required over the 2.5-year construction period of which approximately 40 per cent would need to be potable (for concrete batching and consumption at the combined worker accommodation facilities and construction compounds) and the remainder would be non-potable water (primarily for dust suppression). Overall, this is a 27 per cent increase from the amount of water estimated to be required for the EIS project.

The water supply strategy has been refined from the EIS project. For the amended project, potable water would be sourced via direct connection with existing council water reticulations where possible. Where direct connection to existing council water reticulation systems is not available/feasible, potable water could be transported from a nearby town/population centre to the point of usage via water carts/tankers. Further consultation would be undertaken with local councils to ensure there is sufficient capacity within the existing water reticulation systems to meet the potable water demand. Non-potable water would be sourced from on-site sources (ie construction sedimentation basins, farm dams and/or rainwater tanks) where available. In addition, non-potable water could be purchased from existing groundwater and/or surface water allocation holders who wish to temporarily sell their water allocation (or part of their water allocation) through the open water market. Where possible, the preference would be to use existing water extraction points, subject to agreement with the relevant landowners.

The total water demand during construction is a small percentage of the total volume of water allocated under the Water Sharing Plans (WSPs) in the amended project footprint, however the distribution of existing groundwater and surface water licenced extraction volumes is variable across the amended project footprint. The potential impacts from water supply on non-potable water sources/users would be negligible as purchasing water from an existing Water Access Licence (WAL) holder with predetermined extraction volumes would have already been evaluated and deemed to be acceptable via the relevant approvals process. Any surface water/groundwater extraction would be carried out in compliance with the conditions stated in the purchased WALs and the relevant WSP.

Wastewater disposal – The volumes of wastewater generated by construction activities (excluding combined worker accommodation facilities and construction compounds) would be generally low, ranging from 50 kL to 100 kL (assuming a conservative 200 L per person) depending on the site and occupancy levels. The EIS presented information over the life cycle of the project, while the amended project considers a refined estimation approach of daily wastewater generation as this provides a more acute representation. Wastewater from these activities would be collected in tanks or field portaloos – which would be pumped out into a tanker. The tanker would dispose of any wastewater at local sewage treatment plants. Wastewater generated at the combined worker accommodation facilities and construction compounds would require a connection into the town sewerage network, where possible. However, in most instances, wastewater from these facilities would be collected in tanks which would be pumped out into a tanker. The tanker would dispose of any wastewater at local sewage treatment plants. Further consultation would be undertaken with local councils to ensure there is sufficient capacity within the nearby wastewater treatment plants to meet the water disposal demand.

Construction impacts on groundwater

Overall, the potential impacts and risks of the amended project to groundwater during construction have increased compared to potential impacts and risks identified in the EIS project due to the following amendments and refinements:

- Inclusion of additional infrastructure in the assessment which may require temporary dewatering during construction, such as the additional telecommunications connections to existing substations.
- Inclusion of potential controlled blasting locations for transmission line structure construction, which have the potential to cause localised changes to existing groundwater flow pathways and potential localised groundwater quality impacts (eg increased turbidity and/or nitrates used in blasting operation leaching into groundwater).

Other potential impacts and risks to groundwater during construction are generally the same for the amended project compared to the EIS project, however, in some cases the locations of impact have changed due to changes to the transmission line corridor.

Construction activities that could potentially impact groundwater resources mainly relate to the construction of the transmission line structures foundation and additional telecommunications connections to existing substations, which would require excavation up to five metres below ground level or piles which may extend greater than 20 metres below ground level. These activities may intercept groundwater where the groundwater table is shallow (ie < 2 metres below ground level) and the potential short-term impacts such as changes in groundwater level (ie from dewatering), interference to groundwater flow direction and impacts on groundwater quality on bores within or close to the amended project footprint could be moderate to high. Substation modification and construction was also identified as potentially having moderate impacts on groundwater.

Temporary dewatering (if required) could potentially exceed the minimal impact consideration in the NSW Aquifer Interference Policy (AIP) where shallow groundwater is encountered (ie < 2 metres below ground level). However, the induced drawdowns would be temporary only and would not prevent the long-term viability of the potentially affected Groundwater Dependent Ecosystems (GDEs) or water supply work.

In addition, vibration impacts from controlled blasting activities could potentially loosen silt/sand/rock particles and chemical precipitates lining fractures which can increase turbidity of groundwater (where shallow groundwater is encountered ie less than two metres below ground level (mbgl)) and the use of nitrates (ie ammonium nitrate) in controlled blasting operations could leach into groundwater and impact groundwater quality. Potential controlled blasting impacts are expected to be highly localised, as literature suggests that the distance over which the near-field breakage of intact rock and the formation of new fractures would be limited.

While there are other potential risks to groundwater during construction, overall, the impacts of construction on groundwater would be minor.

Operational impacts on surface water and groundwater

The amended project involves changes to the transmission line corridor in some locations (including the Green Hills corridor amendment) as well as nomination of additional access tracks/waterway crossings that may be retained during operation for maintenance activities. This may have resulted in slight changes to the location of surface water impacts during operation, however overall the potential operational surface water impacts of the amended project are generally consistent with the impacts described in Section 7.1.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

The amended project involves changes to the transmission line corridor in some locations (including the Green Hills corridor amendment) and has marginally increased the maximum expected transmission line structure piling depth to up to 28 metres below ground level. The substation bench layout at the proposed Gugaa 500 kV substation and nominated access track locations have also been amended. However, these changes are considered minor and therefore the potential operational groundwater impacts of the amended project are generally consistent with the impacts described in Section 7.1.6 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

Mitigation measures

The measures proposed to avoid, manage and/or mitigate impacts to surface water and groundwater include:

- Soil and Water Management Plans (SWMPs) and Erosion and Sediment Control Plans (ESCPs) would be prepared and implemented. Where there is a higher risk of potential impact due to the activity (ie construction compound), the proximity of a waterway or other specific characteristics (ie high erosion potential), site-specific plans would be prepared.
- Where works have been identified within waterfront land by spatial analysis. Waterfront land would need to be confirmed onsite, using the waterfront land tool, as per the Natural Resources Access Regulator (NRAR) documentation/e-tool. Where waterfront land is confirmed, the works would be undertaken in accordance with the relevant Guidelines for Controlled Activity approvals for construction (NSW Government, 2024a).

- Consideration of scour protection will be included in any infrastructure that is within a waterway. The design will incorporate features that minimise impact on flow conditions and natural functioning of the waterway in accordance with relevant guidelines.
- Water supply management will be undertaken in accordance with agreements between the construction contractors and relevant landowners, water users and suppliers. Groundwater and surface water allocations purchased from existing registered bores/users must be extracted in accordance with the conditions stated in the associated WAL(s) and Water Supply Works approval(s).
- Where temporary dewatering is required, a dewatering assessment will be undertaken to estimate dewatering volumes and dewatering procedures will be included in the SWMP in line with the minimal impact criteria listed within the NSW AIP, relevant WSPs and licencing requirements where relevant (Water Supply Works Approval and WAL(s) if dewatering volumes exceed 3 ML/year)
- Where controlled blasting is required, a suitably qualified blasting specialist will be engaged to carry out a detailed blasting assessment and trial blasts (if required) to determine blasting design and site-specific parameters. The blasting assessment should identify measures to limit vibrations to the recommended "safe" levels (defined in AS 2187.2-2006 Explosives Storage and use), limit rock mass damage, avoid "over-blasting" and consider potential impacts to GDEs, groundwater users and surface water bodies.

With the proposed mitigation measures in place, impacts are expected to be negligible to minor.

Conclusions

Overall, the potential impacts and risks of the amended project to surface water and groundwater have increased compared to potential impacts and risks identified for the EIS project. This is due to a more detailed understanding of the project design, along with amendments and refinements, which includes:

- changes to the transmission line corridor
- an increase in the number and size of construction compounds and combined worker accommodation facilities and construction compounds
- inclusion of additional infrastructure in the assessment such as nominated access tracks and additional telecommunications connections to existing substations. Some of this infrastructure is located within waterfront land (ie within 40 m of a waterway) and/or crosses waterways
- an increase in potable water requirements
- inclusion of potential controlled blasting locations for transmission line structure construction.

Due to the increase in water quality impacts as a result of changes to erosion and sedimentation and geomorphology impacts on surface water, more site specific ESCPs and SWMPs would be developed to mitigate any impacts.

The increase in potable water requirements would require further consultation with councils to ensure that supplies are adequate to meet demands.

The changes to the transmission line route does not result in any overall change in potential impact significance to surface water or groundwater but may have minor localised impacts in some new areas. Localised impacts will be effectively managed by the environmental management measures proposed.

Overall, the amended project is expected to have minimal additional surface water and groundwater impacts compared to the impacts identified in the EIS. Any impacts would be adequately managed with the implementation of the proposed environmental management measures.

Contents

| 1 | Intro | duction | | 1 | | |
|---|---|--|---|-------|--|--|
| | 1.1 | Backgr | ound | 1 | | |
| | 1.2 | Key features of the project (as publicly exhibited) | | | | |
| | 1.3 | Overview of the proposed amendments and refinements2 | | | | |
| | 1.4 | Purpos | e and structure of this report | 5 | | |
| | 1.5 | Key pro | pject terms | 5 | | |
| 2 | Sum | mary of th | ne proposed amendments and refinements | 6 | | |
| | 2.1 | Backgr | ound | 8 | | |
| 3 | Legis | slative and | d policy context | 10 | | |
| 4 | Meth | odology . | | 11 | | |
| | 4.1 | Key tas | sks | 11 | | |
| | | 4.1.1 | GIS analysis | 11 | | |
| | | 4.1.2 | Waterway survey | | | |
| | | 4.1.3 | Impact assessment | | | |
| | 4.2 | Study a | area | | | |
| 5 | Exist | ina envira | onment | 23 | | |
| | 5.1 | _ | aphy | | | |
| | 5.2 | | e water | | | |
| | 0.2 | 5.2.1 | Catchment overview | | | |
| | | 5.2.1 5.2.2 | Waterways and waterbodies | | | |
| | | 5.2.3 | Surface water supply and water resources | | | |
| | | 5.2.4 | Surface water quality | | | |
| | 5.3 | | prphology | | | |
| | 5.4 | | nd geology | | | |
| | • | 5.4.1 | Hydrologic soil groups | | | |
| | | 5.4.1 | Modelled soil erosion | | | |
| | | 5.4.3 | Geology | | | |
| | 5.5 | | jeology | | | |
| | | 5.5.1 | Groundwater sources | 75 | | |
| | | 5.5.2 | Registered bores | | | |
| 6 | Asse | ssment o | of impacts | 83 | | |
| | 6.1 Construction impacts | | | | | |
| | | 6.1.1 | Transmission line corridor | 83 | | |
| | | 6.1.2 | Proposed Gugaa 500 kV substation design refinements | | | |
| | | 6.1.3 | Additional telecommunications connections to existing substations | | | |
| | | 6.1.4 | Changes to ancillary facilities | | | |
| | | 6.1.5 | Nomination of access tracks | 86 | | |
| | | 6.1.6 | Changes to construction methodology | 88 | | |
| | | 6.1.7 | Construction water supply | 90 | | |
| | | 6.1.8 | Summary of construction impacts | 98 | | |
| | 6.2 | • | ional impacts | | | |
| | | 6.2.1 | Erosion risk and sedimentation impacts | | | |
| | | 6.2.2 | Geomorphology | | | |
| | | 6.2.3 | Water quality | | | |
| | | 6.2.4 | Operational water supply | | | |
| | | 6.2.5 6.2.6 | Wastewater disposalGroundwater | | | |
| | | 0.2.0 | Giouiuwalti | טוווו | | |

| | 6.3 | Cumula | ative impacts | 116 |
|---|------|-----------------------|----------------------------|-----|
| 7 | Mana | agement o | of impacts | 119 |
| | 7.1 | | ew of approach | |
| | | 7.1.1 7.1.2 | Construction Operation | |
| | 7.2 | Summa | ary of mitigation measures | 120 |
| 8 | | Conclusion References | | |
| | | | | |
| | | | | |

Attachments

Attachment A

Amended sections of the project

Attachment B

Waterway survey results

Attachment C

Named Waterways

Attachment D

Registered bores

Attachment E

Erosion and sedimentation risk

Attachment F

Access track analysis

Figures

| Figure 1-1 | Overview of amended project location | 3 |
|------------|---|-----|
| Figure 1-2 | Key components of the amended project footprint | 4 |
| Figure 4-1 | Surface Water and groundwater study area | 16 |
| Figure 4-2 | Field survey locations | 17 |
| Figure 5-1 | Topography | |
| Figure 5-2 | Catchments | 31 |
| Figure 5-3 | Waterways and Waterbodies | |
| Figure 5-4 | Surface Water Sharing Plan | 41 |
| Figure 5-5 | NSW River Styles | 48 |
| Figure 5-6 | Hydrologic Soil Groups | 55 |
| Figure 5-7 | Modelled Soil Erosion | 62 |
| Figure 5-8 | Seamless Geology | 69 |
| Figure 5-9 | Groundwater Water Sharing Plan | 76 |
| Figure 6-1 | Location of controlled potential blasting locations | 89 |
| Figure 6-2 | Non-potable water sources – overview of decision-making process recommended order | |
| | based on assumed feasibility and reliability | 92 |
| Figure 6-3 | Future Projects | 118 |
| | | |



Tables

| Table 2-1 | Proposed amendments and refinements relevant to this assessment | 7 |
|------------|--|---------|
| Table 4-1 | Summary of data inputs utilised for analysis | 11 |
| Table 4-2 | Undertaken waterway survey summary | 14 |
| Table 5-1 | Amended project length within major catchments | 30 |
| Table 5-2 | Summary of Water Supply from Surface Water | 39 |
| Table 5-3 | River Styles of major waterway crossings | 47 |
| Table 5-4 | Groundwater sources within five kilometres of amended project footprint | 75 |
| Table 5-5 | Count of bores and their application within one kilometre and within five kilometres of the amended project footprint | 82 |
| Table 5-6 | Summary of salinity and water levels for bore types within the amended surface water and groundwater study area | b |
| Table 6-1 | Identification of amendments and refinements and potential impacts to surface water and groundwater | |
| Table 6-2 | Additional telecommunications connections to existing substations locations within waterfront land | |
| Table 6-3 | Potential construction compound and combined worker accommodation facility and construction compound locations within waterfront land | |
| Table 6-4 | Distance to waterways from construction compounds and combined worker accommodation and construction compounds | |
| Table 6-5 | Count of access tracks intercepting waterfront land | |
| Table 6-6 | Estimated total water volume required during construction | |
| Table 6-7 | Overview of NGIS bore licensed extraction volumes within 5 kilometres of the amended | .50 |
| Table 0 7 | project footprint | 93 |
| Table 6-8 | Bores and licenced extraction volumes by groundwater source | |
| Table 6-9 | Waterways Strahler order 6 and above within 5 kilometres of the amended project | |
| . 45.0 0 0 | footprint with current surface water allocations | 95 |
| Table 6-10 | Sensitivity risk based on erosion category and proximity to waterways | |
| Table 6-11 | Percentage of amended project footprint in sensitivity categories | |
| Table 6-12 | Erosion risk and sedimentation impacts to surface water for the project amendments and | 99 |
| Table 6-13 | Geomorphology risk impacts to surface water for the project amendments and refinements | |
| Table 6-14 | Water quality risk impacts to surface water for the project amendments and refinements | |
| Table 6-15 | Potential groundwater impacts during construction for the project amendments and refinements | |
| Table 6-16 | Aquifer Interference Policy Minimal impact considerations for 'highly productive alluvial groundwater sources' – Kyeamba and Gundagai Alluvial Groundwater Sources | |
| Table 6-17 | Aquifer Interference Policy Minimal impact considerations for a 'highly productive fractured rock aquifer' – Yass Catchment Fractured Rock Groundwater Sources | |
| Table 6-18 | Aquifer Interference Policy Minimal impact considerations for a 'less productive fractured rock aquifer' – Lachlan Fold Belt Groundwater Sources | |
| Table 6-19 | Potential impacts to major waterways | |
| Table 6-20 | Summary of cumulative impacts identified | |
| Table 7-1 | | 121 |



Abbreviations

| Abbreviation | Description | |
|-----------------------|--|--|
| AIP | Aquifer Interference Policy | |
| BoM | Bureau of Meteorology | |
| CEMP | Construction Environmental Management Plan | |
| CSSI | Critical State Significant Infrastructure | |
| DECC | Former Department of Environment and Climate Change | |
| DPI | Department of Primary Industries | |
| DPIE | Former Department of Planning, Industry, and the Environment | |
| EIS | Environmental Impact Statement | |
| EP&A Act | Environmental Planning and Assessment Act 1979 | |
| EPBC Act | Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) | |
| ESCP | Erosion and Sediment Control Plan | |
| GDE | groundwater dependent ecosystem | |
| GIS | Geographical Information System | |
| HSU | Hydrostratigraphic unit | |
| KFH | key fish habitat | |
| kT/year | kilotonnes per year | |
| km | kilometres | |
| LGA | Local Government Area | |
| m | metres | |
| mAHD | metres above the Australian Height Datum | |
| mbgl | metres below ground level | |
| MDBA | Murray Darling Basin Authority | |
| ML | megalitres | |
| μS/cm | microsiemens per centimetre | |
| NRAR | Natural Resources Access Regulator | |
| NSW | New South Wales | |
| NSW DCCEEW Water | NSW Department of Climate Change, Energy, the Environment and Water – Water | |
| Planning Systems SEPP | State Environmental Planning Policy (Planning Systems) 2021 | |
| QLD | Queensland | |
| RFS | Rural Fire Service | |
| SA | South Australia | |
| SEARs | Planning Secretary's Environmental Assessment Requirements | |
| SSI | State Significant Infrastructure | |
| SWMP | Soil and Water Management Plan | |
| T/day | Tonnes per day | |
| TAS | Tasmania | |
| VIC | Victoria | |
| WAL | Water Access Licence | |
| Water Act | Water Act 1912 | |
| WM Act | Water Management Act 2000 | |
| WQMP | Water Quality Monitoring Plan | |
| | | |

aurecon

| Abbreviation | Description |
|--------------|---------------------|
| WRP | Water Resource Plan |
| WSP | Water Sharing Plan |



Glossary of terms

| Term | Description | |
|--|--|--|
| access routes | Roads providing the access to and from the amended project footprint. | |
| amended project (the) | The CSSI project "HumeLink", which is the subject of the Amendment Report and inclusive of the proposed amendments and project refinements to the project as described in the EIS. The project involves the construction and operation of high voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle. | |
| amended project footprint (the) | The area that has been assumed for the purpose of the Amendment Report to be directly affected by the construction and operation of the project. It includes the indicative location of project infrastructure, the area that would be directly disturbed during construction and any easement required during operation. | |
| amended surface water and groundwater study area | The amended project footprint plus a one kilometre buffer. | |
| amendment | A change in what the proponent is seeking approval for following the public exhibition of the EIS. It requires changes to the project description in the EIS and amendments to the associated infrastructure application. | |
| amenity | The pleasantness of a place as conveyed by desirable attributes including visual, noise, odour etc (Australian Institute of Landscape Architects QLD, 2018). | |
| Asset Protection Zone | A bushfire protection measure, providing a buffer around assets. APZs are designed and maintained to reduce fuel near assets, and to reduce the potential for damage from direct flame contact, smoke, radiant heat, and ember attack. The dimensions for APZs are designed in line with <i>Planning for Bush Fire Protection: A guide for councils, planners, fire authorities and developers</i> (NSW RFS, 2019), and are determined by surrounding vegetation type, slope, and the type of asset/development. | |
| brake and winch site | A brake and winch site is a temporarily cleared area where plant and equipment are located to spool and winch conductors into place on transmission line structures. The locations of the brake and winch sites may or may not be within the nominated transmission line easement. These sites are only required for construction of the project and do not need to be maintained during operation. | |
| capacity | The volume a road is designed to accommodate. | |
| climate change | A change in global or regional climate patterns, in particular a change apparent from the mid to late 20th century onwards and attributed, largely, to the increased levels of atmospheric greenhouse gases. | |
| combined cumulative impact assessment | Combined cumulative impact assessment approach involves considering the combined effect of the different cumulative impacts of the project with other relevant future projects on key matters in an identified area (DPE, 2022a). | |
| construction compounds | Main construction compounds proposed for construction of the project. Each main construction compound would accommodate a range of facilities which may include (but not limited to): laydown areas site offices amenities construction support facilities such as vehicle and equipment storage, maintenance sheds, chemical/fuel stores and stockpile areas concrete batching plants helipads crushing/screening plants parking. | |
| Construction Environmental Management Plan | A Construction Environmental Management Plan (CEMP) describes how activities undertaken during construction would be managed to avoid or mitigate impacts, and how those environmental management requirements would be implemented. | |
| Critical State Significant Infrastructure | Critical State Significant Infrastructure (CSSI) projects are high priority infrastructure projects that are essential to the State for economic, social or environmental reasons. | |

| Term | Description | | |
|--|--|--|--|
| easement clearing zone | The vegetation zones along the transmission line easements which would require the clearing and ongoing maintenance of tall growing vegetation that may intrude on the vegetation clearance requirements at maximum line operating conditions (maximum conductor sag and maximum conductor blowout) at that location at the time of construction of the project, or at any time in the future. To minimise impacts on biodiversity and ground stability within this zone, ground cover vegetation would be retained, with partial mid-storey removal required along with complete removal of the canopy layer. | | |
| EIS project (the) | The CSSI project "HumeLink", which was the subject of the Environmental Impact Statement. The project involves the construction and operation of high voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle. | | |
| EIS project footprint | The area that was assumed for the purpose of the EIS to be directly affected by the construction and operation of the project. It includes the indicative location of project infrastructure, the area that would be directly disturbed during construction and any easement required during operation. | | |
| EIS surface water and groundwater study area | The EIS project footprint plus a one kilometre buffer. | | |
| floodplain | Land that is subject to flooding up to the Probable Maximum Flood (PMF), which is the maximum possible flood that would reasonably be expected to ever occur. | | |
| future Maragle 500 kV substation | The future Maragle 500/330 kV substation that would be built under the approved Snowy 2.0 Transmission Connection Project, which is subject to a separate planning approval (reference SS1-9717, EPBC 2018/836). | | |
| hazard tree | A hazard tree is defined as a tree or part of tree that if it were to fall would infringe on the vegetation clearance requirements at maximum conductor sag of the transmission lines. | | |
| Hydrostatigraphy | Hydrostatigraphy is the structure of subsurface porous materials in reference to the flow of groundwater, often relating to geological units. | | |
| indicative disturbance area | The area of land that would be temporarily or permanently cleared for the project including: construction and operation of all proposed infrastructure elements (including the proposed transmission line and structures, substation site work, telecommunications hut and other ancillary work) | | |
| | construction elements such as construction compounds and worker accommodation facility, access tracks and brake/winch sites. | | |
| | The area is identified based on realistic project component locations and areas however it is indicative at this stage. The final disturbance area would be confirmed during finalisation of the design and construction methodology and would be developed as part of the consideration of avoidance and impact minimisation. This indicative disturbance area includes areas required for operation and | | |
| | maintenance. | | |
| issue-specific cumulative impact assessment | Issue-specific cumulative impact assessment approach involves considering the impacts of the project together with the impacts of other relevant future projects on specific issues (key matters) within an identified area (DPE, 2022a). | | |
| karst environments | An area of land made up of limestone. | | |
| Key Fish Habitat | Key Fish Habitat (KFH) is aquatic habitat that are important to the sustainability of the recreational and commercial fishing industries, the maintenance of fish populations generally, and the survival and recovery of threatened aquatic species. | | |
| metres above Australian Height Datum | A common reference level used in Australia which is approximately equivalent to the height above sea level in meters. | | |
| perched aquifers | Perched aquifers are aquifers which occur above the regional water table. | | |
| proponent | The entity seeking approval for the CSSI application, which for the HumeLink project is NSW Electricity Networks Operations Pty Ltd (referred to as Transgrid). | | |
| Ramsar wetland | Wetlands designated under the Convention on Wetlands of International Importance which are representative, rare or unique wetlands, or wetlands that are important for conserving biological diversity. | | |



| Term | Description | | |
|--|---|--|--|
| refinement | Refinements to the project are defined as aspects of the project that generally fit within the limits set by the project description in the EIS. Refinements do not change what is being sought for approval or require an amendment to the infrastructure application for the project. | | |
| sediment containment dam | A sediment containment dam is a purpose-built dam designed to collect and settle sediment from stormwater runoff. A sediment containment dam may not always be required and is dependent on a number of requirements such as the catchment area and expected soil loss rate. | | |
| sensitive receptor | A location where people are likely to work or reside; this may include a dwelling, school, hospital, office or public recreational area. | | |
| Strahler stream order | Strahler stream order classification is a 'top down' system in which streams of the first order have no upgradient streams flowing into them (DPE 2022). If two streams of the same order merge, the resulting stream is given a number that is one higher. If two rivers with different stream orders merge, the resulting stream is given the higher of the two numbers. Under the Strahler stream order classification, first to third order streams are typically headwater streams. Streams classified as fourth through sixth order are typically medium streams, and streams that are seventh order or larger are typically rivers. | | |
| substation bench | The switchyard within a substation needs to be accessible under most circumstances to allow fault response and access for operational and maintenance reasons. To assist with this requirement, the switchyard is located on a bench to provide a stable, dry weather trafficable and free-draining structure and provide a safe platform for workers, vehicles, cranes and trucks in order to facilitate the maintenance and operation of the switchyard for the duration of its operational life. | | |
| surface water and groundwater study area | The study area for the surface water and groundwater assessment includes the project footprint with a one kilometre buffer. | | |
| the Guidelines | State significant infrastructure guidelines – preparing an environmental impact statement (DPE, 2022) | | |
| telecommunications hut | The proposed optical repeater telecommunications hut as part of HumeLink, which is required to boost the signal in the optical fibre ground wire. | | |
| Transgrid | The project is proposed to be undertaken by NSW Electricity Networks Operations Pty Ltd (referred to as Transgrid). Transgrid is the operator and manager of the main high voltage transmission network in NSW and the ACT, and is the Authorised Network Operator for the purpose of an electricity transmission or distribution network under the provisions of the <i>Electricity Network Assets (Authorised Transactions) Act 2015</i> . | | |
| transmission line corridor | An area generally 200 metres wide that the transmission line route and easement would be located within. | | |
| transmission line easement | A legal right attached to a parcel of land that enables the non-exclusive use of the land by a third party other than the owner. For transmission lines, an easement defines the corridor area where the lines are located and that allows access, construction and maintenance work to take place. The easements for the 500 kV transmission lines would typically be 70 metres wide. However, a few select locations would require wider easements up to 130 metres wide for specific engineering or property reasons. The easement grants a right of access and for construction, maintenance and operation of the transmission line and other operational assets. | | |
| transmission line route | The location of the transmission line structures along the middle of the transmission line easement. | | |
| transmission line structures | Proposed free standing structures to support the transmission lines. | | |
| transposition | Transposition is the periodic swapping of positions of the conductors on a transmission line in order to improve transmission reliability. | | |
| unconfined aquifers | Unconfined aquifers are aquifers that do not have a confining layer like a clay layer or solid rock which restricts flow from one aquifer to another. | | |
| water quality objectives | Water quality objectives are long-term goals for water quality management. They are measures, levels or narrative statements of indicators of water quality that protect environmental values. They define what the water quality should be to protect the environmental values - after consideration of the socio-economic assessment of protecting the water quality. | | |

1 Introduction

1.1 Background

Transgrid proposes to increase the energy network capacity in southern New South Wales (NSW) through the development of around 365 kilometres (km) of new 500 kilovolt (kV) high-voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle. This project is collectively referred to as HumeLink. The project would be located across six Local Government Areas (LGAs) including Wagga Wagga City, Snowy Valleys, Cootamundra-Gundagai Regional, Upper Lachlan Shire, Yass Valley and Goulburn -Mulwaree. HumeLink is a priority project for the Australian Energy Market Operator (AEMO) and the Commonwealth and NSW governments and has been declared as Critical State Significant Infrastructure (CSSI). The project would deliver a cheaper, more reliable and more sustainable grid by increasing the amount of renewable energy that can be delivered across the national electricity grid, helping to transition Australia to a low carbon future.

An Environmental Impact Statement (EIS) was prepared in accordance with the requirements of Division 5.2 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The EIS was placed on public exhibition by the NSW Department of Planning, Housing and Infrastructure (DPHI) (formerly the NSW Department of Planning and Environment (DPE)) for a period of 42 days, between 30 August 2023 and 10 October 2023.

Transgrid has proposed amendments and refinements to the project as described in the EIS. The amendments provide functional improvements to the design and construction methodology of the project. The proposed amendments take into account submissions received during the public exhibition of the EIS and ongoing design and construction methodology development following the selection of the construction contractors. Project refinements have also been made as part of the ongoing design and construction methodology development since the EIS was exhibited. These amendments and refinements have been described and considered in relevant impact assessments.

A separate Submissions Report has been prepared to respond to the submissions received during EIS public exhibition period and should be read in conjunction with this Amendment Report.

1.2 Key features of the project (as publicly exhibited)

The key components of the project as outlined and assessed in the EIS included:

- construction and operation of around 360 kilometres of new double circuit 500 kV transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle
- construction of a new 500/330 kV substation at Gregadoo (Gugaa 500 kV substation) approximately
 11 kilometres south-east of the existing Wagga 330/132 kV substation (Wagga 330 kV substation)
- demolition and rebuild of a section of Line 51 (around two kilometres in length) as a double circuit 330 kV transmission line connecting into the Wagga 330 kV substation
- modification of the existing Wagga 330 kV substation and Bannaby 500/330 kV substation (Bannaby 500 kV substation) to accommodate the new transmission line connections
- connection of transmission lines to the future Maragle 500/330 kV substation (Maragle 500 kV substation, approved under the Snowy 2.0 Transmission Connection Project (SSI-9717))
- provision of one optical repeater telecommunications hut and associated connections to existing local electrical infrastructure
- establishment of new and/or upgraded temporary and permanent access tracks
- ancillary works required for construction of the project such as construction compounds, worker accommodation facilities, utility connections and/or relocations, brake and winch sites, and helipad/helicopter support facilities.

1.3 Overview of the proposed amendments and refinements

Since the public exhibition of the EIS, several amendments and refinements to the project have been proposed.

The proposed amendments to the project include:

- changes to the transmission line corridor, including the realignment of the route through Green Hills State
 Forest to the west of Batlow
- change to the number and location of construction ancillary facilities, including worker accommodation facilities and construction compounds
- nomination of access tracks to support the construction and operation of the project
- additional telecommunications connections to existing substations.

The proposed refinements to the project include:

- transmission line and substation design refinements at Gregadoo
- identification of areas where controlled blasting may be required
- use of approved water sources
- use of helicopters and drones.

Refer to Chapter 2 of this report for a detailed description of amendments and refinements relevant to this assessment.

Figure 1-1 shows the location of the amended project and Figure 1-2 shows the key components of the amended project. This figure is presented in further detail in Attachment A.

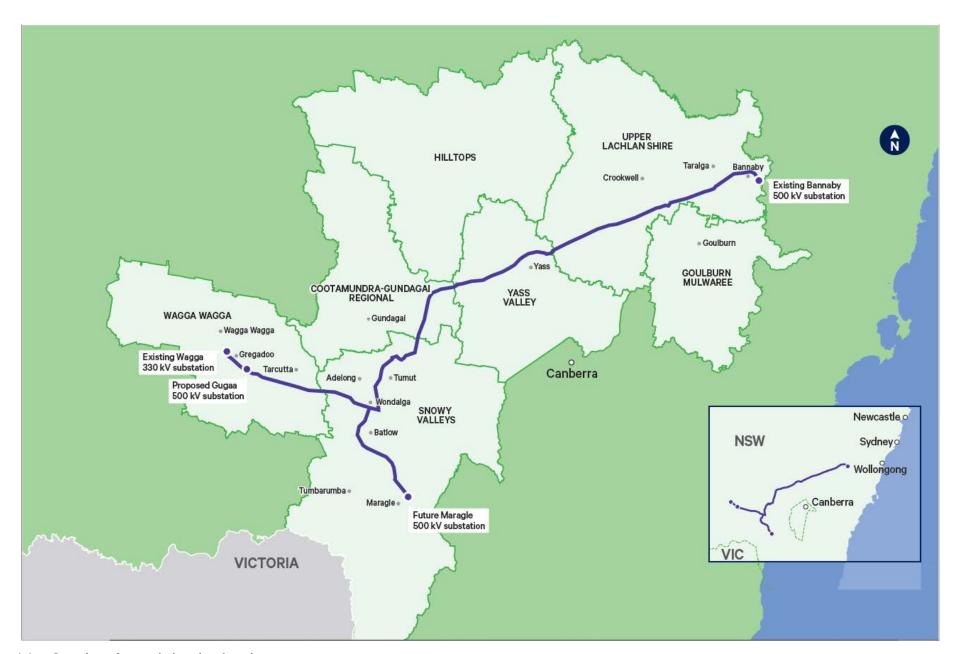
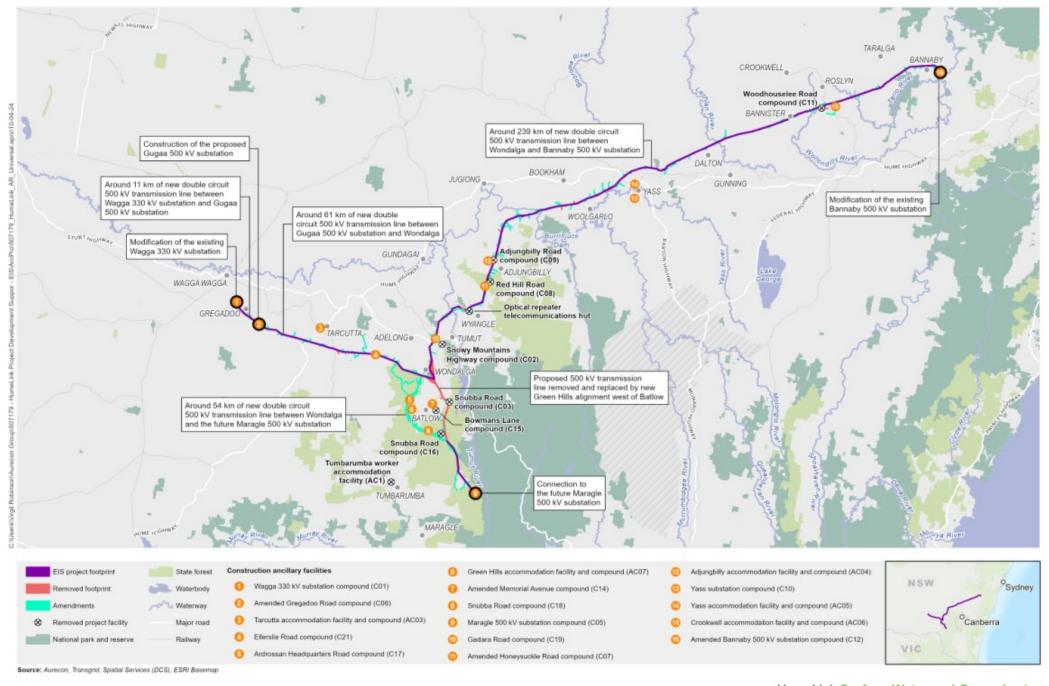


Figure 1-1 Overview of amended project location





1.4 Purpose and structure of this report

This report forms an addendum to *Technical Report 12 - Surface water and Groundwater Impact Assessment* prepared for the EIS. The purpose of this report is to support the HumeLink Amendment Report by assessing the potential impacts to surface water and groundwater associated with the proposed amendments and refinements to the project.

This report is structured as follows:

- Chapter 1 (Introduction) provides an overview of the project, the proposed amendments and the purpose of this report.
- Chapter 2 (Summary of the proposed amendments and refinements) provides a description of the proposed amendments and refinements relevant to this assessment.
- Chapter 3 (Legislative and policy context) provides an outline of the key legislative requirements and policy guidelines relating to the proposed amendments to the project.
- Chapter 4 (Methodology) provides an outline of the methodology used for the preparation of this report.
- Chapter 5 (Existing environment) describes the existing environment with reference to the potential for impacts to surface water and groundwater.
- Chapter 6 (Assessment of impacts) describes the potential construction and operation impacts associated with the proposed amendments and refinements of the project.
- Chapter 7 (Management of impacts) outlines any new or revised mitigation measures for the proposed amendments to the project.
- Chapter 8 (Conclusion) provides a conclusion of the potential impacts of the proposed amendments to the project with reference to the potential for surface water and groundwater impacts.
- Chapter 9 (References) identifies the key information sources (including reports and documents) used to generate the assessment.

1.5 Key project terms

The key project terms used in this assessment include:

- Amended project The CSSI project "HumeLink", which is the subject of the Amendment Report and inclusive of the proposed amendments and project refinements to the project as described in the EIS. The project involves the construction and operation of high voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle.
- Amended project footprint The area that has been assumed for the purpose of the Amendment Report to be directly affected by the construction and operation of the project. It includes the indicative location of project infrastructure, the area that would be directly disturbed during construction and any easement required during operation.
- EIS project The CSSI project "HumeLink", which was the subject of the EIS. The project involves the construction and operation of high voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle
- EIS project footprint The area that was assumed for the purpose of the EIS to be directly affected by the construction and operation of the project. It includes the indicative location of project infrastructure, the area that would be directly disturbed during construction and any easement required during operation.
- EIS surface water and groundwater study area The EIS project footprint plus a one kilometre buffer.
- Amended surface water and groundwater study area The amended project footprint plus a one kilometre buffer.

2 Summary of the proposed amendments and refinements

Transgrid has identified several proposed amendments and refinements to the project as described in the EIS. These amendments and refinements reflect functional improvements to the design and construction methodology of the project. They consider:

- feedback received from stakeholders prior to and during the public exhibition of the EIS
- comments made in formal submissions on the EIS
- ongoing design and construction methodology development by the construction contractors.

Amendments to the project are defined as changes in what the proponent is seeking approval for following the public exhibition of the EIS. Project amendments require changes to the project description in the EIS and amendments to the associated infrastructure application.

The proposed amendments to the project include:

- changes to the transmission line corridor including the realignment of the route through Green Hills State
 Forest to the west of Batlow
- changes to the number and location of construction ancillary facilities including worker accommodation facilities and construction compounds
- nomination of access tracks to support the construction and operation of the project
- additional telecommunications connections to existing substations.

Refinements to the project are defined as aspects of the project that generally fit within the limits set by the project description in the EIS. Refinements do not change what is being sought approval for or require an amendment to the infrastructure application for the project. For completeness, these refinements have been considered in this report.

The proposed refinements to the project include:

- transmission line and substation design refinements at Gregadoo
- identification of areas where controlled blasting may be required
- use of approved water sources
- use of helicopters and drones.

Table 2-1 describes the proposed amendments and refinements relevant to this technical report. A full description of the amended project is provided in Chapter 3 (Description of the amended project) of the Amendment Report. The construction contractors will continue to refine and confirm the design and construction methodology during detailed design and construction planning.

Amendment / refinement

Description

Amendments

Changes to the transmission line corridor

The amended project includes the preferred western route through Green Hills State Forest. The new 32.5 km route extends from Wondalga through the Green Hills State Forest before travelling to the west and south of Batlow and connecting to the EIS project transmission line corridor in Bago State Forest.

In addition, the following minor changes have been made to the transmission line corridor following design considerations and feedback from landholders:

- 1.4 km realignment of the corridor to the north between Ashfords Road to Ivydale Road, Gregadoo
- 2.5 km realignment of the corridor to the south across Kyeamba Creek and Tumbarumba Road, Book Book
- 2.7 km realignment of the corridor to the east near Snowy Mountains Highway, Gadara
- 1.4 km realignment of the corridor to the east adjacent Minjary National Park at Gocup
- 5.9 km realignment of the corridor from north of the crossing of Tumut River to south of the crossing of Killimicat Creek, Killimicat (including a minor 50 m shift to the north for 2.1 km and a 2.6 km shift to the south from Brungle Road to before the crossing of Killimicat Creek)
- 0.4 km realignment of the corridor to the north at Bannister, about 2.7 km west of Crookwell Road/Goulburn Road
- narrowing of the project footprint at Wondalga, Gobarralong and Bowning.

Updates to construction ancillary facilities including worker accommodation facilities and construction compounds

Changes to construction compounds

Following further construction planning and consultation with landowners, the following compounds described and assessed in the EIS have been removed from the project:

- Snowy Mountains Highway compound (C02)
- Snubba Road compound (C03)
- Red Hill Road compound (C08)
- Adjungbilly Road compound (C09)
- Woodhouselee Road compound (C11)
- Bowmans Lane compound (C15)
- Snubba Road compound (C16).

These have been replaced with the following compounds:

- Ardrossan Headquarters Road compound (C17) located about 7.6 km west of Batlow
- Snubba Road compound (C18) located about 7.7 km south of Batlow
- Gadara Road compound (C19) located about 4.9 km west of Tumut
- Ellerslie Road compound (C21) located about 13.1 km south-west of Adelong.

The proposed footprint for the Gregadoo Road compound (C06), Honeysuckle Road compound (C07), Bannaby substation compound (C12) and Memorial Avenue compound (C14) have also been revised.

Following these changes, there are now 11 standalone construction compounds proposed.

Changes to accommodation facilities

The Tumbarumba accommodation facility (AC01) is no longer required. The amended project includes the following new combined worker accommodation facilities and compounds:

- Tarcutta accommodation facility and compound (AC03) located about 1.5 km southwest of Tarcutta
- Adjungbilly accommodation facility and compound (AC04) located about 21.7 km east of Gundagai
- Yass accommodation facility and compound (AC05) located on the north-western outskirts of the Yass township
- Crookwell accommodation facility and compound (AC06) located off Graywood Siding Road, about 18.1 km north of Goulburn
- Green Hills accommodation facility and compound (AC07) located about 6.5 km west of Batlow.

| Amendment / refinement | Description | | |
|---|---|--|--|
| Nomination of access tracks | New access tracks or upgrades to existing access tracks are proposed to connect construction areas and the transmission line easement to the existing road network. | | |
| | Existing unsealed local roads, forest roads, and tracks proposed for use as part of the access arrangements may also require minor improvement work, such as grading or resurfacing, or drainage work. | | |
| Additional telecommunications connections to existing substations | Removal of the telecommunications hut at Killimicat from the scope and inclusion of additional telecommunications connections to the following Transgrid substations: Gadara 132 kV substation Gullen Range 330 kV substation | | |
| | Crookwell 2 330 kV substation. | | |
| Refinements | | | |
| Transmission line and substation design refinements at Gregadoo | The transmission line between the existing Wagga 330 kV substation and the proposed Gugaa 500 kV substation has been assessed as operating at 500 kV for the amended project. However, energisation to 500 kV would only occur at the commissioning stage of the Victoria to NSW Interconnector West (VNI West) project, which is subject to a separate Planning Approval. Until such time, the line will operate at 330 kV. | | |
| | Associated changes with energisation to 500 kV include additional infrastructure at the proposed and relocated Gugaa 500 kV substation. The area of land required for the proposed Gugaa 500 kV substation has also increased in size. | | |
| Identification of areas where controlled blasting may be required | Preliminary geotechnical investigations and further consideration of terrain along the amended project alignment have identified several potential areas where controlled blasting may be required. | | |
| Use of approved water sources | Further analysis of water sources has been carried out for the project which complement the analysis carried out in the EIS. In addition, a process has been proposed to assist with selecting water sources to be used during construction. | | |
| Use of helicopters and drones | Additional information and assessment for the use of helicopters and drones for stringing transmission lines is now available with the engagement of construction contractors and this information has been presented in the Amendment Report. Drones are also expected to be used for additional construction activities such as, but not limited to, surveys and vegetation management. With the use of helicopters confirmed by the construction contractors and the proposed changes to ancillary facilities, the potential helipad locations have also been revised. | | |

2.1 Background

Transgrid proposes to increase the energy network capacity in southern New South Wales (NSW) through the development of around 365 kilometres of new 500 kilovolt (kV) high-voltage transmission lines and associated infrastructure between Wagga Wagga, Bannaby and Maragle. This project is collectively referred to as HumeLink. The project would be located across six Local Government Areas (LGAs) including Wagga Wagga City, Snowy Valleys, Cootamundra-Gundagai Regional, Upper Lachlan Shire, Yass Valley and Goulburn Mulwaree. HumeLink is a priority project for the Australian Energy Market Operator (AEMO) and the Commonwealth and NSW governments and has been declared as Critical State Significant Infrastructure (CSSI). The project would deliver a cheaper, more reliable and more sustainable grid by increasing the amount of renewable energy that can be delivered across the national electricity grid, helping to transition Australia to a low carbon future.

An Environmental Impact Statement (EIS) was prepared in accordance with the requirements of Division 5.2 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The EIS was placed on public exhibition by the NSW Department of Planning, Housing and Infrastructure (DPHI) (formerly the NSW Department of Planning and Environment (DPE)) for a period of 42 days, between 30 August 2023 and 10 October 2023.

Transgrid has proposed amendments and refinements to the project as described in the EIS. The amendments provide functional improvements to the design and construction methodology of the project. The proposed amendments take into account submissions received during the public exhibition of the EIS and ongoing design and construction methodology development following the selection of the construction contractors. Project refinements have also been made as part of the ongoing design and construction methodology development since the EIS was exhibited. These amendments and refinements have been described and considered in relevant impact assessments.

3 Legislative and policy context

There have been no changes to the legislative or policy context presented in *Technical Report 12 - Surface Water and Groundwater Impact Assessment* prepared for the EIS.

4 Methodology

4.1 Key tasks

The amended project footprint was used to assess the impacts of the refined/amendment components as described in Chapter 2. The amendments to the project footprint required the potential impacts on surface water and groundwater resources during construction and operation to be reassessed. The key tasks included:

- updating the erosion hazard from the EIS for the amended project footprint and access tracks
- waterfront land proximity analysis of project amendments, including:
 - access tracks
 - additional telecommunications connections to existing substations
 - accommodation and compound sites
- potential controlled blasting locations and their proximity to sensitive environments
- identification of access track waterway crossings and whether they are within waterfront land (ie with 40 metres of a waterway)
- waterway survey (site visit)
- water supply assessment and identification of focus areas for future supply works.

Most of these tasks included Geographic Information System (GIS) analysis. The methodology followed for the key tasks are presented in Section 4.1.1.

4.1.1 GIS analysis

This section outlines the GIS methodology conducted for the surface water, groundwater (water supply and existing environment), controlled blasting, access tracks, additional telecommunications connections to existing substations, construction compounds and combined worker accommodation facilities and construction compounds analyses. Table 4-1 provides the data sources for each of the datasets used.

Table 4-1 Summary of data inputs utilised for analysis

| Dataset | Description | Data source | Website |
|---|---|-------------|---|
| HumeLink – Footprint V13.2 - 20231114 | Polygons of amended project footprint | Transgrid | - |
| Access tracks | Polygons of nominated access tracks and associated category describing required works | Transgrid | - |
| Camps_Compounds_L aydowns_Areas | Polygons of proposed combined worker accommodation facilities and construction compounds, construction compounds, and laydown areas | Transgrid | - |
| Groundwater Dependent Ecosystem (GDE) Aquatic | Polylines of Aquatic GDEs and associated potential defined by BoM | ВоМ | GDE Atlas Home: Water Information: Bureau of Meteorology (bom.gov.au) |
| GDE Terrestrial | Polygons of Terrestrial GDEs and associated potential defined by BoM | ВоМ | GDE Atlas Home: Water Information: Bureau of Meteorology (bom.gov.au) |
| PotentialBlastingAreasc ombined | Polygons of identified sections along the amended project footprint where controlled blasting may be utilised for construction | Transgrid | - |

| Dataset | Description | Data source | Website |
|--|--|-------------------|---|
| SEPP_Drinking_Water _Catchment (Sydney drinking water catchment) | Polygon of Sydney Drinking Water Catchment | NSW Government | Environmental Planning Instrument - Drinking Water Catchment Dataset NSW Planning Portal |
| Additional telecommunications connections to existing substations | Polygons of additional telecommunications connections to existing substations as part of amended project footprint | Transgrid | - |
| StrahlerStreamOrder and HydroLine | Strahler order of NSW Government Hydroline dataset, conducted as per NSW Government guidelines | NSW Government | https://datasets.seed.nsw.g ov.au/dataset/nsw- hydrography |
| HydroAreas (Major rivers) | Polygon of waterway where waterway is large in width, used to gather more accurate waterfront land boundaries | NSW Government | https://datasets.seed.nsw.g ov.au/dataset/nsw- hydrography |
| Major Waterway Catchments | Catchment Boundaries of New South Wales | NSW Government | https://datasets.seed.nsw.g ov.au/dataset/catchment- boundaries-of-new-south- wales7d60c |
| National Groundwater Information System (NGIS) Bores | National Groundwater Information System Bore Locations and associated information | BoM | http://www.bom.gov.au/wat er/groundwater/ngis/data.s html |
| Water levels | Associated water level information included in the NGIS | BoM | http://www.bom.gov.au/wat er/groundwater/ngis/data.s html |
| Salinity | Associated salinity information included in the NGIS | BoM | http://www.bom.gov.au/wat er/groundwater/ngis/data.s html |
| WSP_Groundwater_1st _July_2023_master_wit h_comments. (WSP groundwater) | Water Sharing Plans (WSPs) for Groundwater | NSW Government | WATER SHARING PLANS SPATIAL DATA Dataset SEED (nsw.gov.au) |
| Regulated_Rivers_July _2023_with_comments. | Surface Water Catchments | NSW Government | WATER SHARING PLANS SPATIAL DATA Dataset SEED (nsw.gov.au) |
| WSP_Surface_Water_ Unregulated_1st_July_ 2023. (WSP surface water) | Water Sharing Plans for Surface Water | NSW Government | WATER SHARING PLANS SPATIAL DATA Dataset SEED (nsw.gov.au) |

4.1.1.1 Existing Environment – Groundwater Users

- A one kilometre buffer was applied to the amended project footprint.
- A new layer (groundwater analysis: existing environment) was created by overlaying the Water Sharing Plan (WSP) groundwater dataset and clipping to the NGIS bores dataset.
- The following data was obtained from the groundwater analysis (existing environment) layer:
 - Bores count number per WSP groundwater area
 - Bores count number per bore type
- Overlay water level with bores 'per bore type' to show water level range.
- The bore ID and WSP groundwater area were overlayed to salinity data.

4.1.1.2 Existing Environment – Surface Water Catchments

- A one kilometre buffer was applied to the amended project footprint.
- The major waterway catchments dataset was intersected with the amended project footprint (non-inclusive of access tracks).
- The length in kilometres of each major waterway catchment within the amended project footprint was calculated.

4.1.1.3 Impacted water analysis (crossings)

- A 40 metre buffer was applied to the Strahler order (named waterways) dataset.
- The amended project footprint was overlayed to the following datasets to identify where crossings occur:
 - Strahler order (named waterways) (40 metre buffer)
 - HydroAreas (major rivers)
 - SEPP (Sydney drinking water catchment)

4.1.1.4 Controlled blasting areas and sensitive environment analysis

- A 50 metre buffer was applied to the potential controlled blasting areas dataset. The 50 metre buffer was selected to encompass potential surface water and groundwater impacts from controlled blasting activities, which are expected to be highly localised as literature suggests that the distance over which the near-field permanent damage to the rock slope in the form of breakage of intact rock and the formation of new fractures would be limited. For example, Hoek and Bray (1981), suggests that the onset of rock breakage to be within 20 metres of the blast hole for a 100 kg charge weight.
- New layers were created by overlaying the 50 metre buffer blasting dataset to the following datasets:
 - NGIS bores
 - HydroAreas (major rivers) waterbodies
 - GDE aquatic (high potential)
 - GDE terrestrial (high potential).

4.1.1.5 Waterfront land analysis

The following amended project components were analysed for potential impacts within waterfront land:

- access tracks
- additional telecommunications connections to existing substations accommodation locations and construction compounds.

The analysis determined whether the amended project components were within 40 metres of different Strahler order waterways. The 40 metre was selected as this is defined as waterfront land in the relevant guidelines. Construction and operational activities within waterfront land have a higher risk of causing surface water impacts and are likely to require additional mitigation measures to minimise risk and impacts.

Waterfront land identified in this Addendum is based on the spatial analysis undertaken for this assessment, which provides a nominal estimation where waterfront land may occur. Waterfront land would need to be confirmed onsite in accordance with Natural Resources Access Regulator (NRAR) guidelines, including using the waterfront land tool, as per the NRAR documentation/e-tool.

The reason for this is that waterfront land is identified based on presence of defined bed and banks, evidence of flow and geomorphic features and presence of aquatic/riparian vegetation (for wetlands).

Consideration was given to access tracks and additional telecommunications connections to existing substations that crossed waterways and the Strahler order of the waterways impacted.

4.1.2 Waterway survey

A waterway survey was undertaken between 16 October 2023 and 20 October 2023 to verify information obtained from the publicly available datasets and mapping. Site inspections were conducted in waterways with a Strahler order 4 or above and that intersected or are in proximity to the amended project footprint. At each waterway, the following tasks were conducted in general accordance with the AUSRIVAS Physical-Chemical protocol (Parsons *et al.*, 2002):

- Visual inspection and photographic survey of:
 - general geomorphology and topography
 - bank/soil condition and level of vegetation
 - evidence of previous or current erosion around the drainage areas
 - bank and bed substrate
 - floodplain condition and vegetation (where applicable)
 - existing flow obstructions or flow diversions within the sub-catchment.
- Measurements of instream water quality parameters were taken using a calibrated handheld YSI water quality meter (parameters included pH, temperature, conductivity, dissolved oxygen, Oxidation Reduction Potential (ORP) turbidity).

The locations included in the waterway survey are summarised in Table 4-2 below and are illustrated in Figure 4-2. The findings and results of the waterway survey are documented in Attachment B.

Table 4-2 Undertaken waterway survey summary

| Waterway | Strahler order | Key Fish Habitat (KFH) Basin | Comment |
|--------------------|-------------------|---------------------------------|--|
| Adelong Creek | 4 | Murray Darling South | Inaccessible due to forestry road closure |
| Bago Creek | 4 | Murray Darling South | Surveyed successfully |
| Buddong Creek | 5 | Murray Darling South | Surveyed successfully |
| Cart Road Creek | 4 | Murray Darling South | Inaccessible (private property) |
| Comatawa Creek | 4 | Murray Darling South | Surveyed successfully |
| Cooks Creek | 4 | Murray Darling South | Inaccessible (private property) |
| Darlows Creek | 4 | Murray Darling South | Surveyed successfully |
| Derringullen Creek | 5 | Murray Darling South | Surveyed for EIS |
| Foleys Gully | 4 | Murray Darling South | Surveyed successfully |
| Galvins Creek | 5 and 4 | Murray Darling South | Surveyed successfully |
| Gilmore Creek | 4 and 5 | Murray Darling South | Surveyed successfully |
| Gocup Creek | 4 | Murray Darling South | Surveyed successfully |
| Humes Creek | 4 | Murray Darling South | Surveyed, inaccessible for water quality meter |
| Jerrawa Creek | 5 | Murray Darling South | Surveyed successfully |
| Jugiong Creek | 4 | Murray Darling South | Surveyed successfully |
| Keajura Creek | 6 | Murray Darling South | Surveyed successfully |
| Killimicat Creek | 5 | Murray Darling South | Surveyed for EIS |
| Kyeamba Creek | 7 | Murray Darling South | Surveyed successfully |
| Long Creek | 4 | Murray Darling South | Surveyed successfully |
| Mandys Creek | 4 | Murray Darling South | Surveyed successfully |
| Merrill Creek | 4 | Murray Darling South | Surveyed successfully |
| Middle Creek | 5 | Hawkesbury Nepean | Inaccessible (private property) |

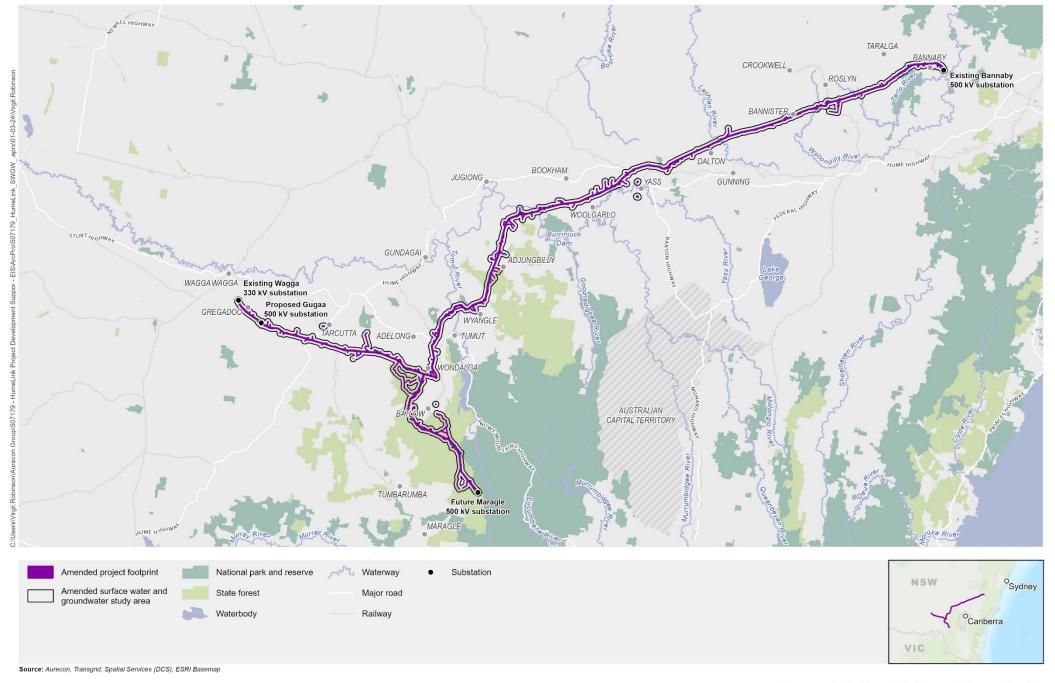
| Waterway | Strahler order | Key Fish Habitat (KFH) Basin | Comment |
|---|-------------------|---------------------------------|--|
| Nacki Creek | 4 | Murray Darling South | Inaccessible due to forestry road closure. |
| O'Briens Creek (west) | 4 and 6 | Murray Darling South | Surveyed for EIS |
| O'Briens Creek (east) | 4 and 6 | Murray Darling South | Inaccessible (private property) |
| Oak Creek | 4 | Murray Darling South | Surveyed for EIS |
| Pejar Creek | 4 | Hawkesbury Nepean | Surveyed for EIS |
| Right Arm Creek | 4 | Murray Darling South | Inaccessible (private property) |
| Saw Mill Creek | 4 | Murray Darling South | Surveyed successfully |
| Sawpit Gully | 4 | Murray Darling South | Inaccessible (private property) |
| Sheepyard Creek | 4 | Murray Darling South | Surveyed successfully |
| Snubba Creek | 4 | Murray Darling South | Surveyed for EIS, surveyed successfully again |
| Tarcutta Creek | 6 | Murray Darling South | Surveyed for EIS |
| Tooles Creek | 5 and 6 | Murray Darling South | Inaccessible (private property). Photos taken from roadway |
| Unnamed Waterway 2 (tributary to Adjungbilly Creek) | 4 | Murray Darling South | Surveyed successfully |
| Unnamed Waterway 3 | 4 | Murray Darling South | Inaccessible (private property) |
| Unnamed Waterway 4 (tributary to Pejar Creek) | 4 | Hawkesbury Nepean | Surveyed successfully |
| Unnamed Waterway 5 | 4 | Hawkesbury Nepean | Inaccessible (private property) |
| Unnamed Waterway 6 | 4 | Hawkesbury Nepean | Inaccessible (private property) |
| Windowie Creek | 4 | Murray Darling South | Surveyed, inaccessible for water quality meter |

4.1.3 Impact assessment

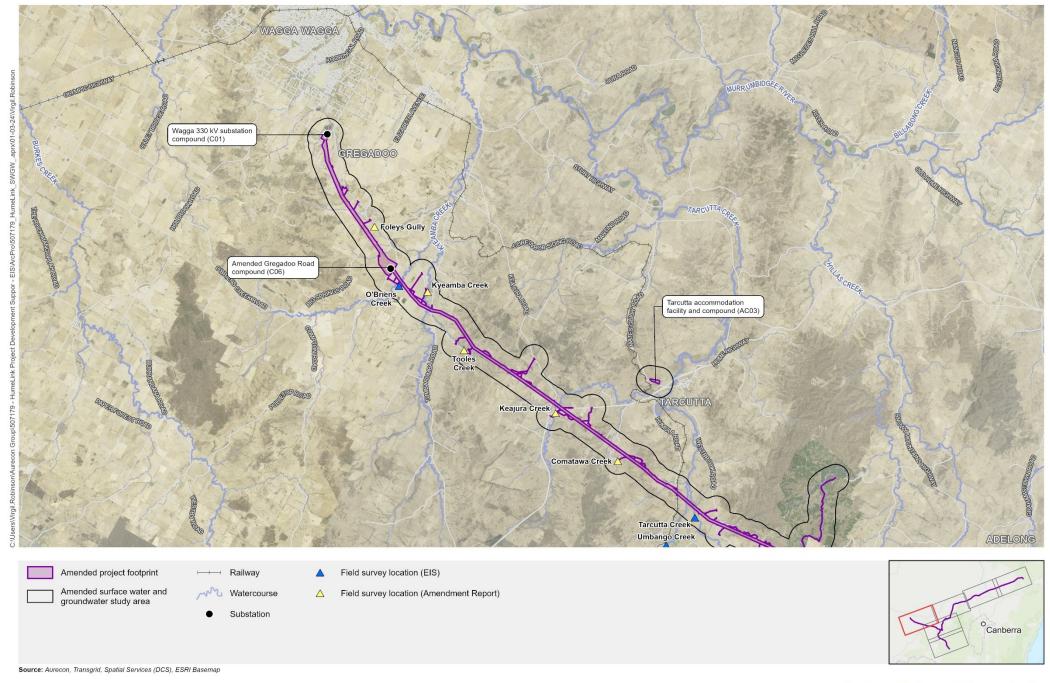
This surface water and groundwater assessment was undertaken in accordance with the methodology presented in Section 4.4 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

4.2 Study area

The amended surface water and groundwater study area includes the amended project footprint plus a one kilometre buffer. The amended surface water and groundwater study area is outlined in Figure 4-1.



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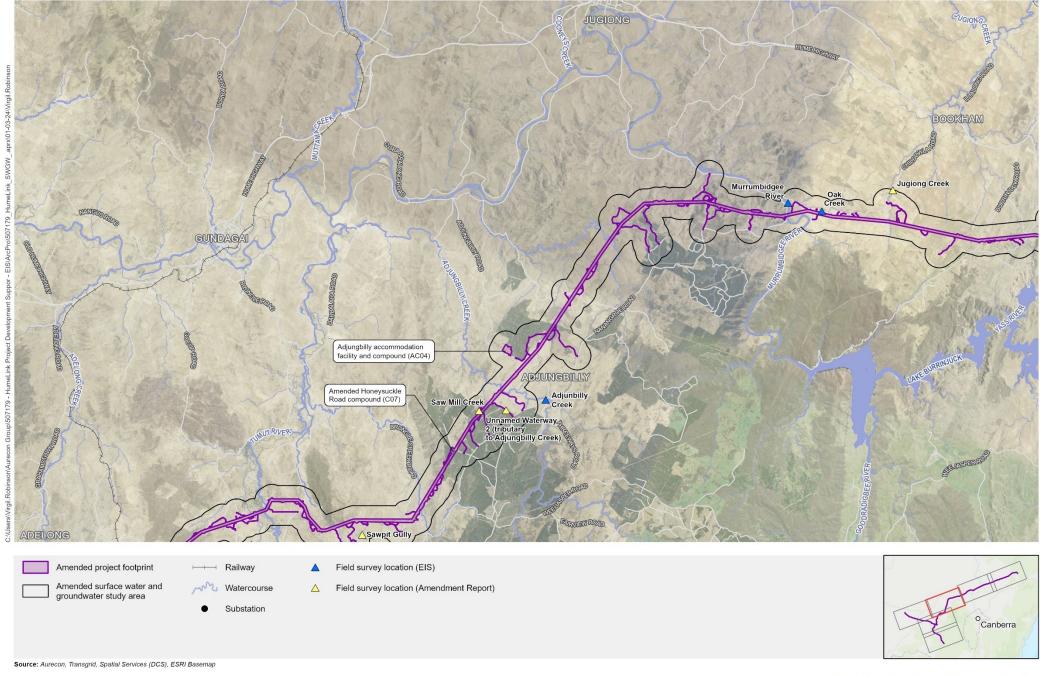
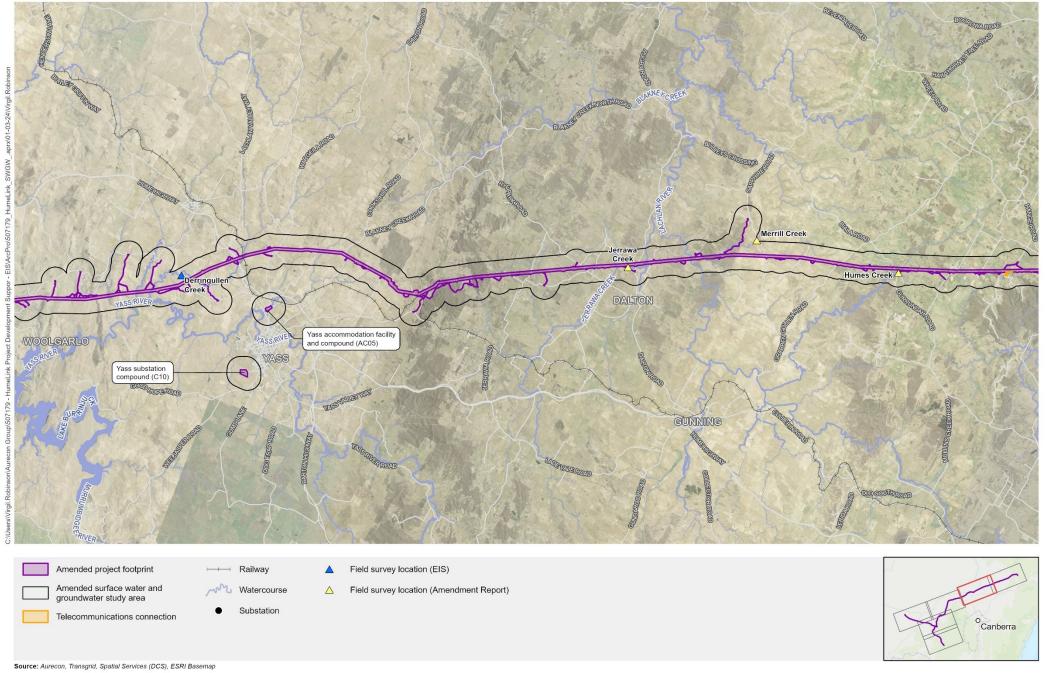
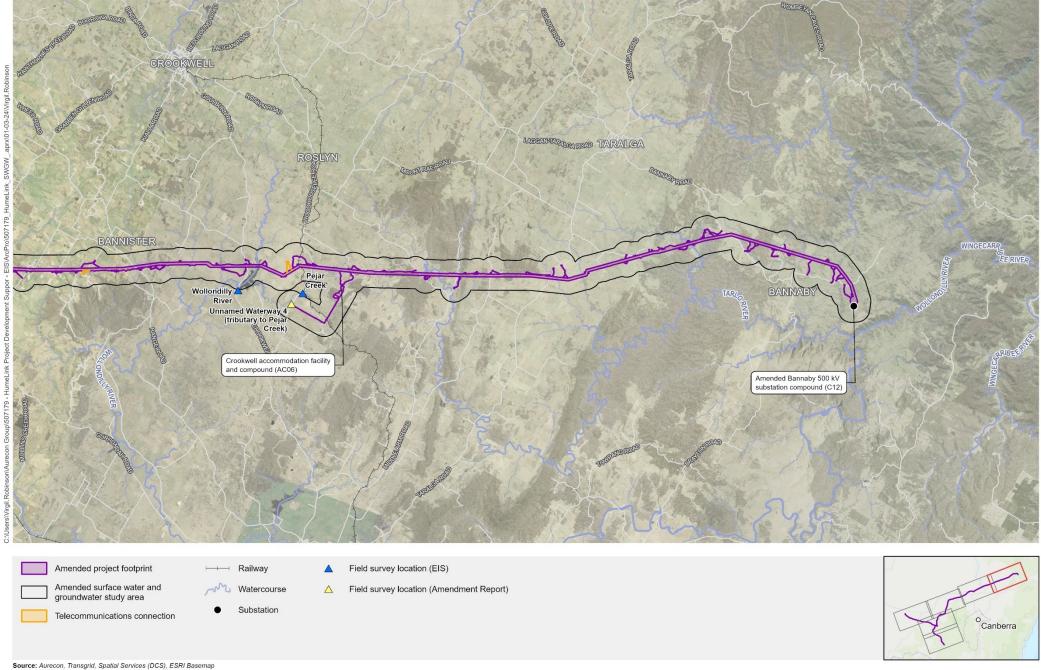


Figure 4-2b: Field survey locations Projection: GDA 1994 MGA Zone 55



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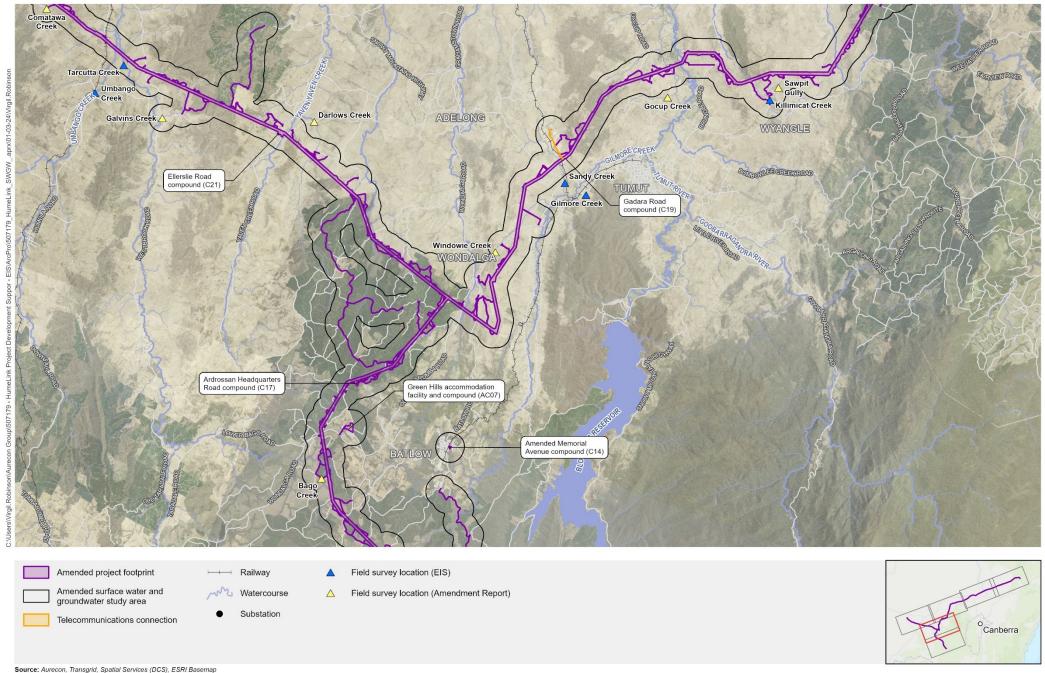
Figure 4-2c: Field survey locations Projection: GDA 1994 MGA Zone 55



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HumeLink Surface Water and Groundwater

Projection: GDA 1994 MGA Zone 55



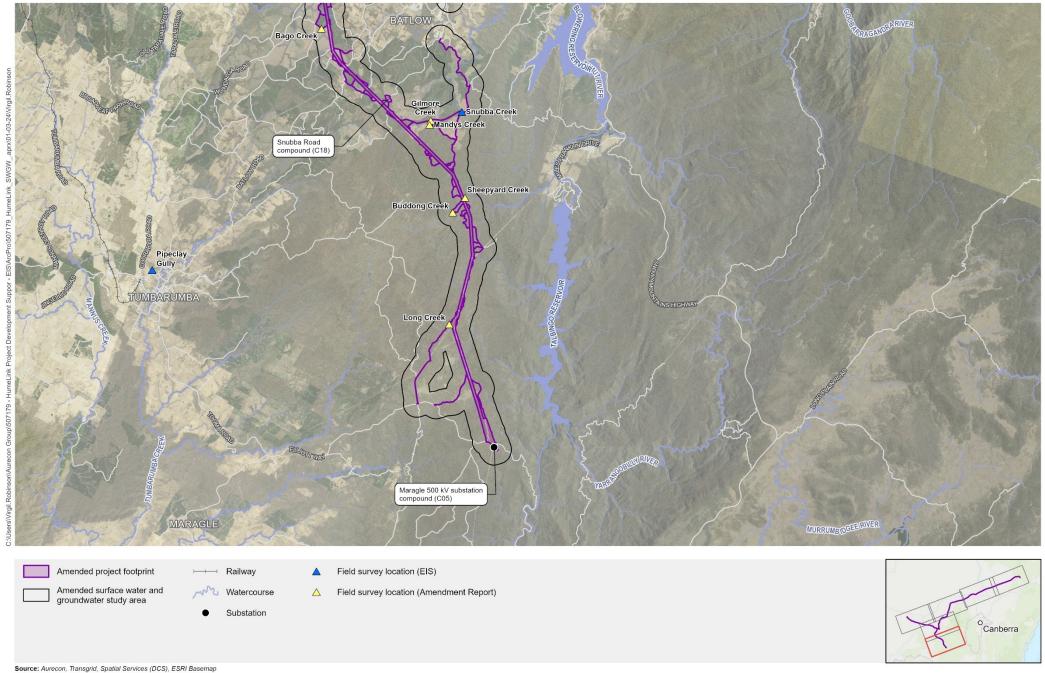
Source: Aurecon, Transgria, Spallar Services (DCS), ESRI Basema

HumeLink Surface Water and Groundwater

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Projection: GDA 1994 MGA Zone 55

Figure 4-2e: Field survey locations



5 Existing environment

The existing environment is described in Section 17.3 of the EIS and Section 5 of *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS is still applicable to the amended project.

Updated figures for the existing environment are presented in the following sections with descriptions provided on the areas new to the amended project footprint.

5.1 Topography

The topography of the EIS project footprint is described in Section 5.2 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

The Green Hills Corridor amendment from the east of Batlow to the west of Batlow now traverses flatter, higher elevation topography compared to the EIS project. The other changes in the transmission line corridor are generally on similar topography compared to the EIS project.

The updated topography figure with the project amendments is presented in Figure 5-1.



1:200,000

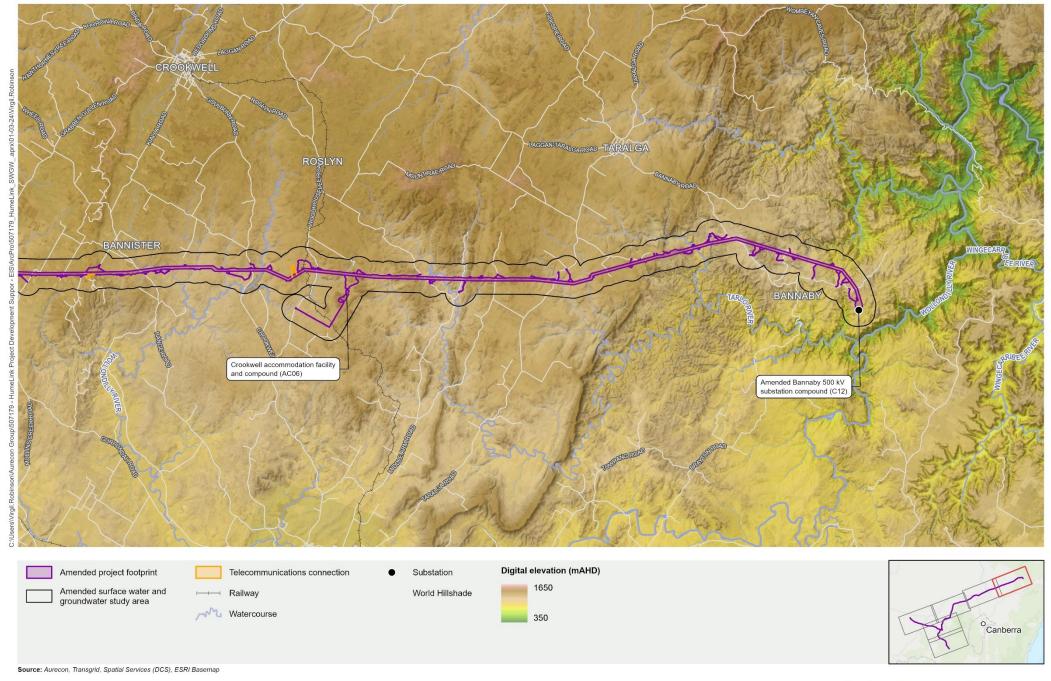


Projection: GDA 1994 MGA Zone 55

Figure 5-1b: Topography



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1:200,000 0 4 8kr



1:200,000 0 4 8km

5.2 Surface water

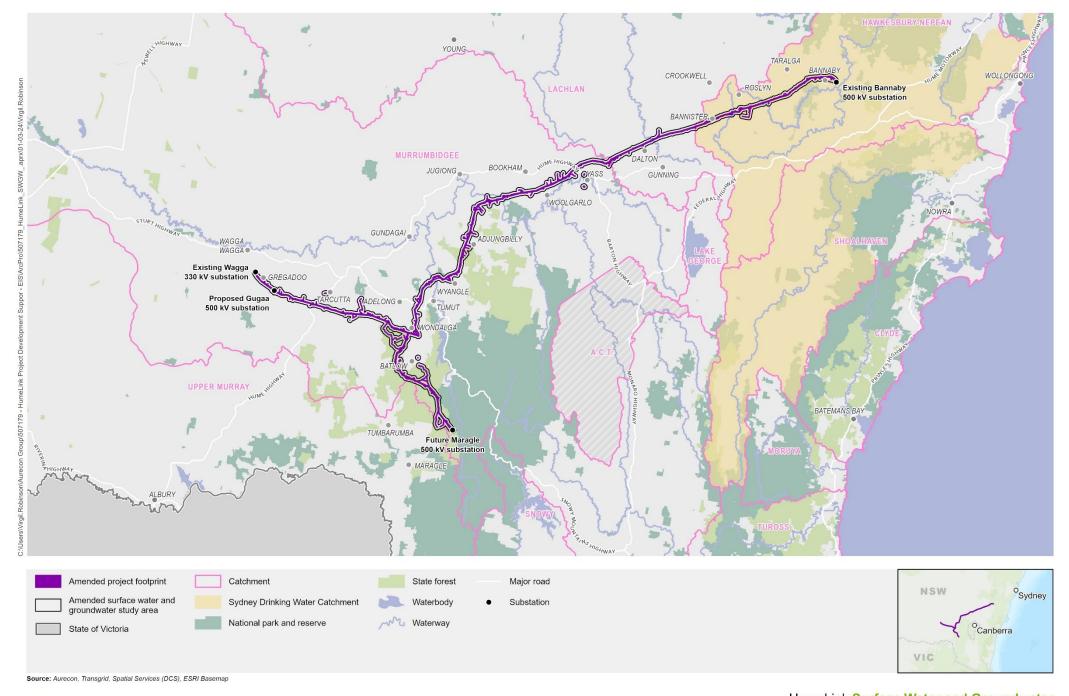
5.2.1 Catchment overview

The amended project is located in the same four major surface water catchments as the EIS project, namely: Murrumbidgee, Murray, Lachlan and Hawkesbury catchments. These catchments are described in Section 5.3.1 of *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. Due to the changes in the alignment, the length of transmission line corridor within each catchment has changed slightly. These changes are presented in Table 5-1. In the EIS project, one worker accommodation facility was located in the Upper Murray catchment. However, in the amended project around one kilometre of the transmission line corridor and associated access tracks are now located in the Upper Murray catchment and the worker accommodation facility has also been removed.

Table 5-1 Amended project length within major catchments

| Major Waterway Catchment | Approximate EIS project length within catchment (kilometres) | Approximate amended project length within catchment (kilometres) |
|---|--|--|
| Murrumbidgee | 261 | 260 |
| Murray | 0 | 1 |
| Lachlan | 38 | 38 |
| Hawkesbury (including Sydney Drinking Water Catchment (SDWC)) | 65 | 65 |

The NorBE undertaken for the EIS still applies for the amended project for the SDWC. The updated major surface water catchments figure for the amended project is presented in Figure 5-2.



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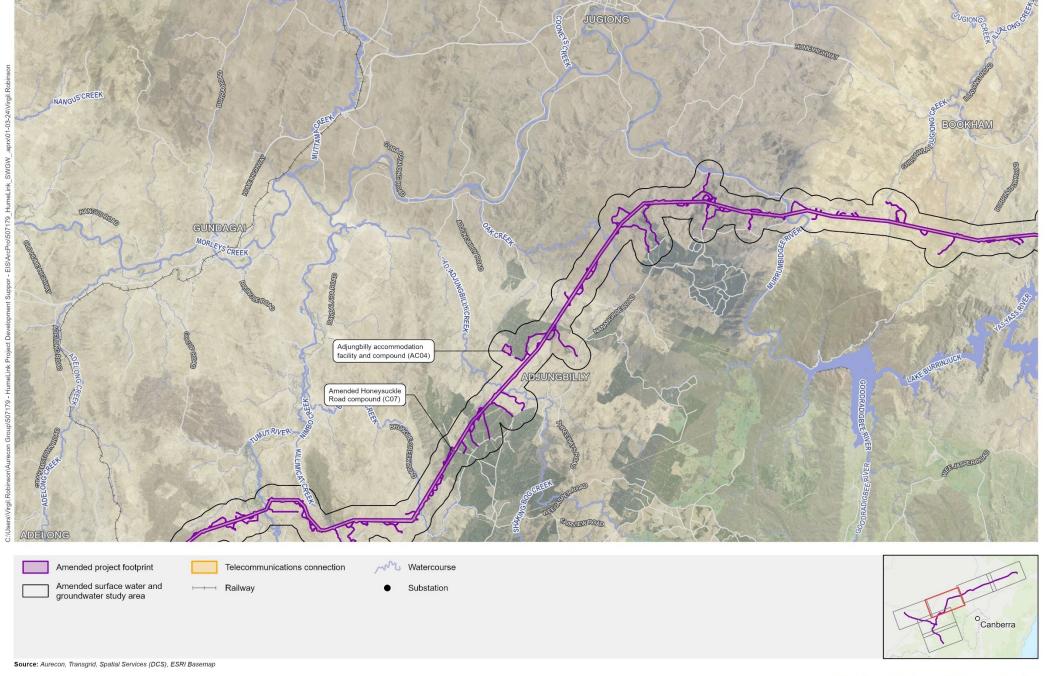
5.2.2 Waterways and waterbodies

The waterways and waterbodies intercepted by the EIS project footprint are described in Section 5.3.2 and Attachment B of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

The updated list of named waterways intercepted by the transmission line corridor is outlined in Attachment C of this report. The Strahler stream order of each waterway is also provided. The number of waterways and locations of impact has increased due to the changes in the transmission line corridor and the additional infrastructure such as nominated access tracks and construction compounds and accommodation facilities.

The waterways and waterbodies intercepted by the amended transmission line corridor is presented in Figure 5-3.

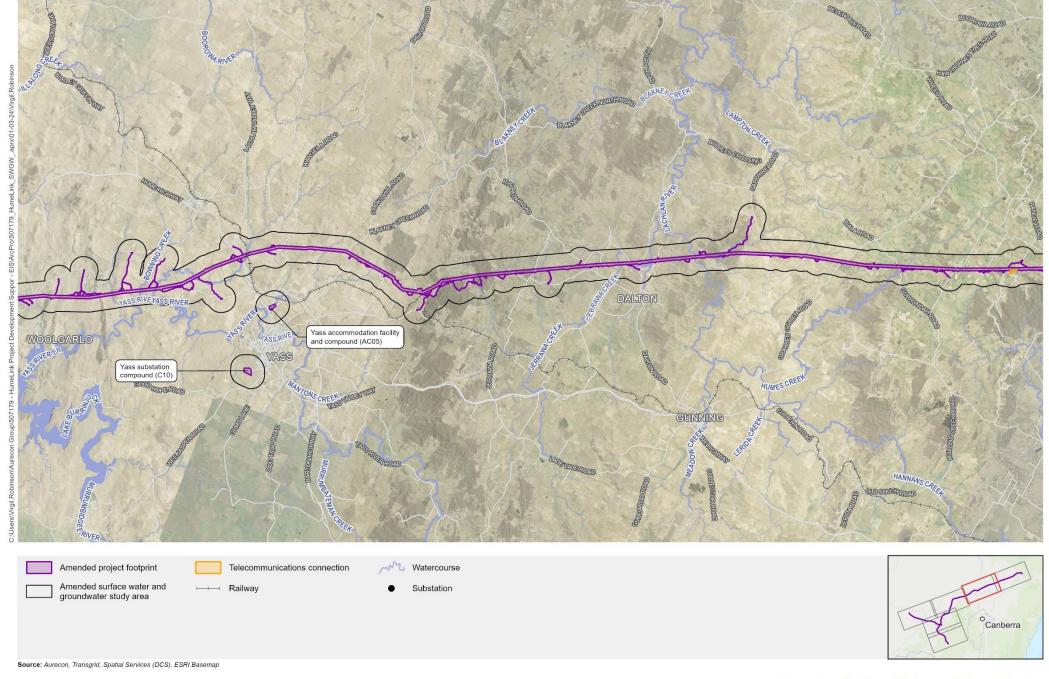




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Projection: GDA 1994 MGA Zone 55

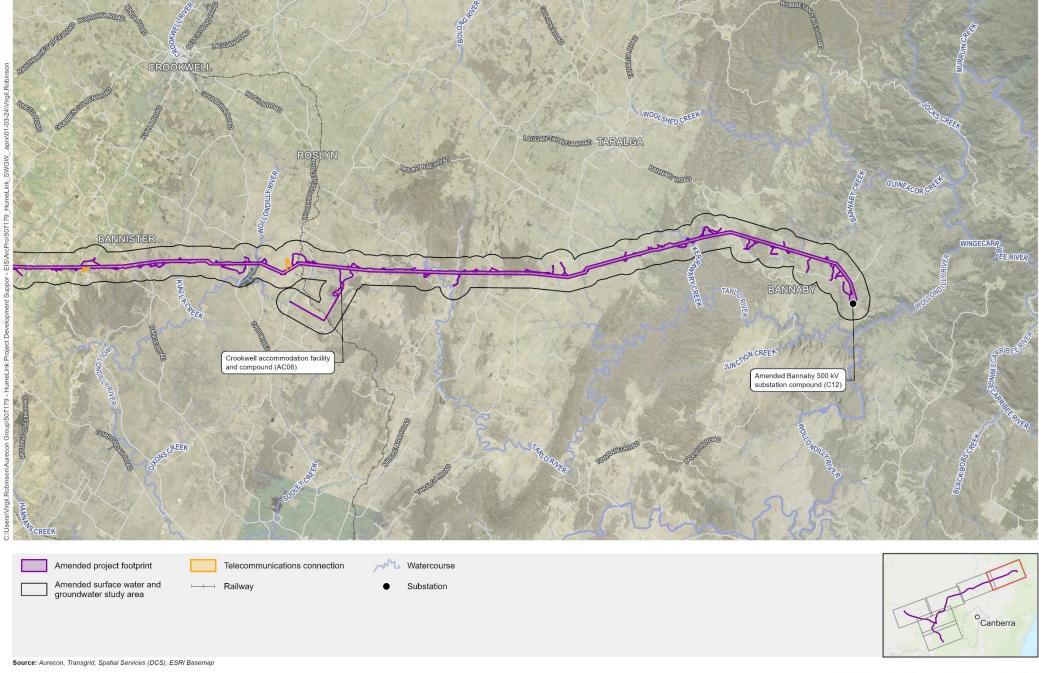
Figure 5-3b: Waterways and waterbodies



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Projection: GDA 1994 MGA Zone 55

Figure 5-3c: Waterways and waterbodies

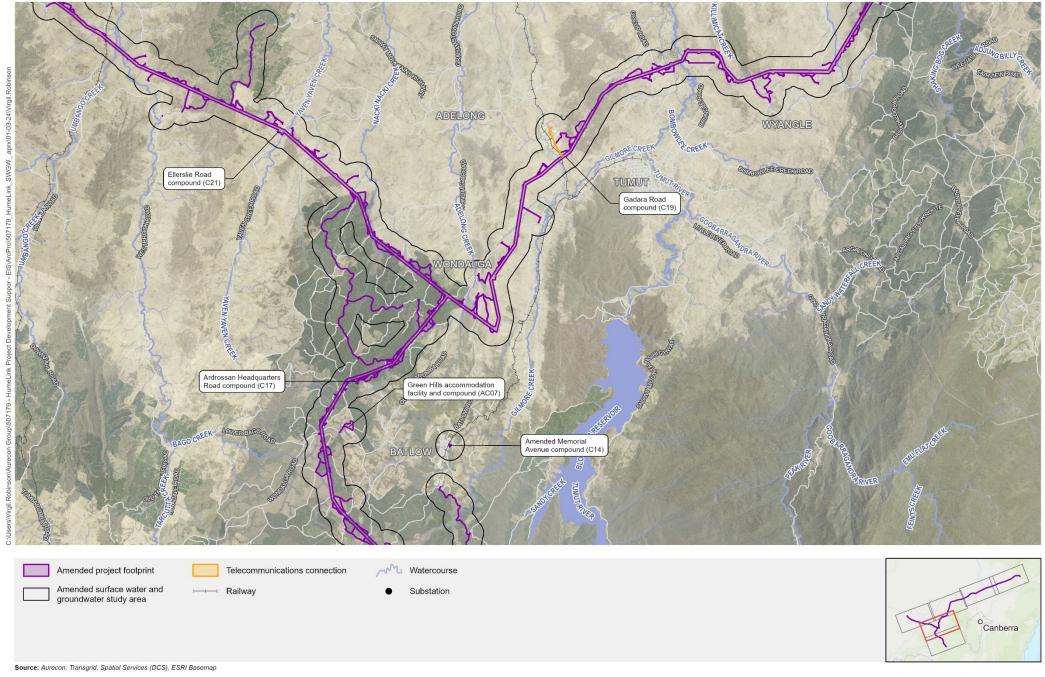


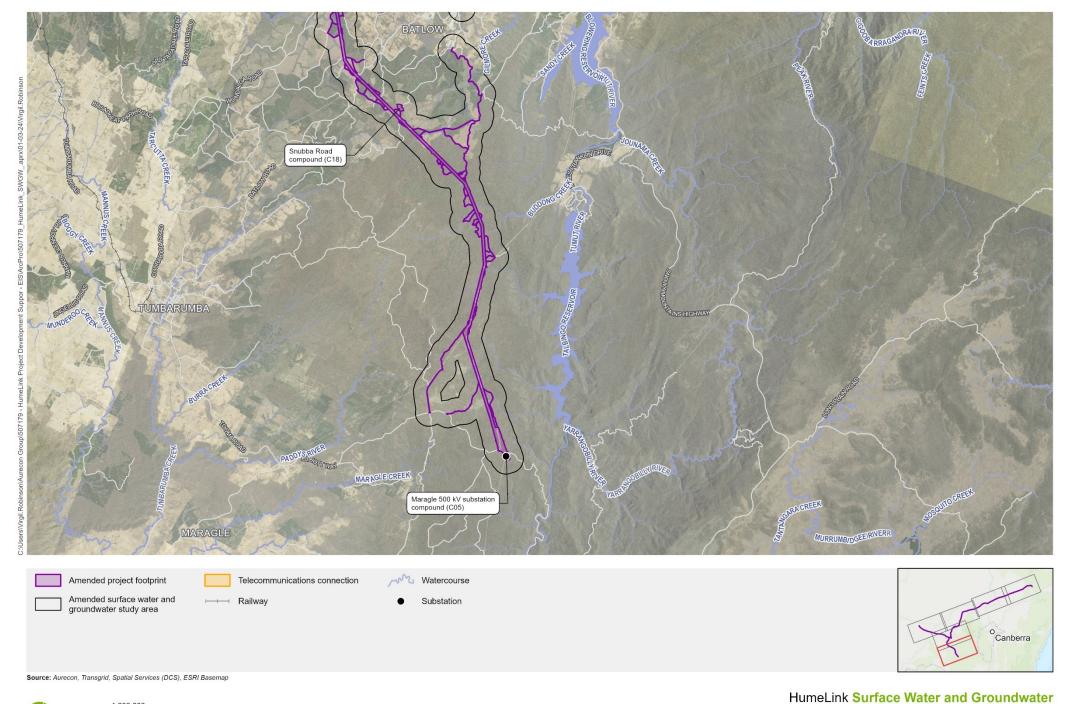
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HumeLink Surface Water and Groundwater

Projection: GDA 1994 MGA Zone 55

Figure 5-3d: Waterways and waterbodies





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Figure 5-3f: Waterways and waterbodies

5.2.3 Surface water supply and water resources

Surface water supply and available water resources for the EIS project footprint were presented in Section 5.3.3 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. This section provides an updated review of water allocation for each of the major surface water catchments within the amended project footprint.

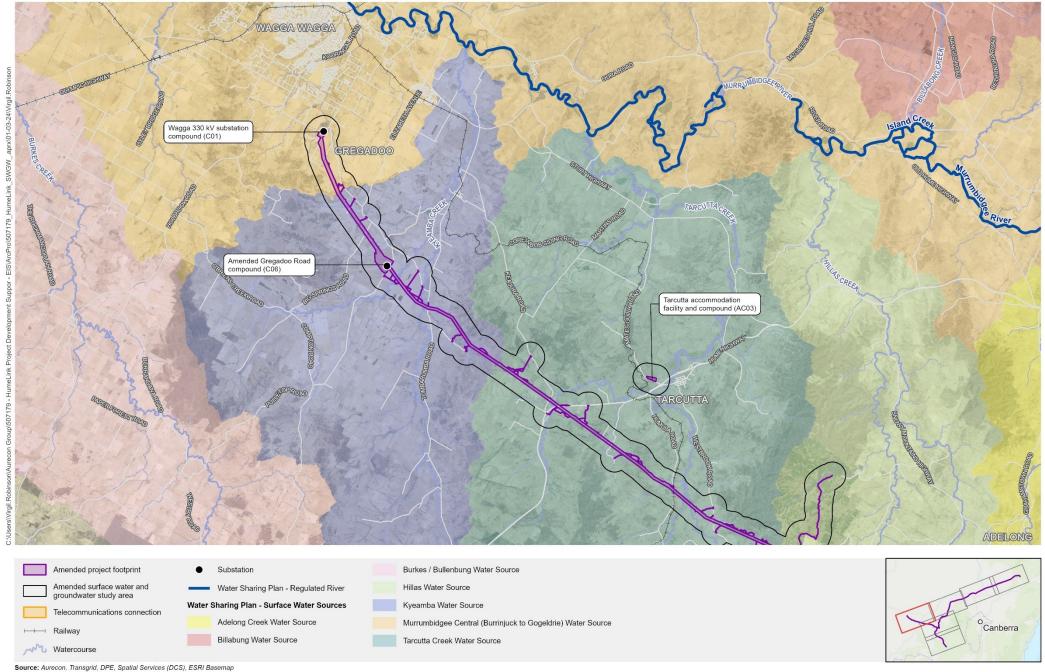
WSPs are in place (enacted) for all catchments within the amended project footprint. The relevant WSPs and a summary of their existing water supply is presented in Table 5-2.

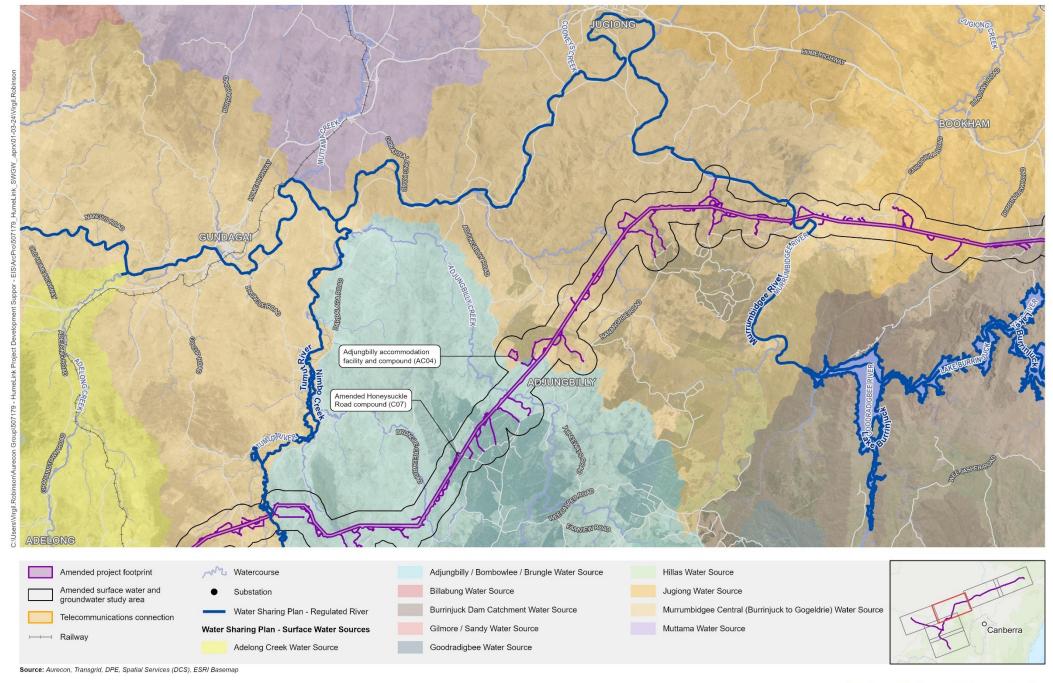
Table 5-2 Summary of Water Supply from Surface Water

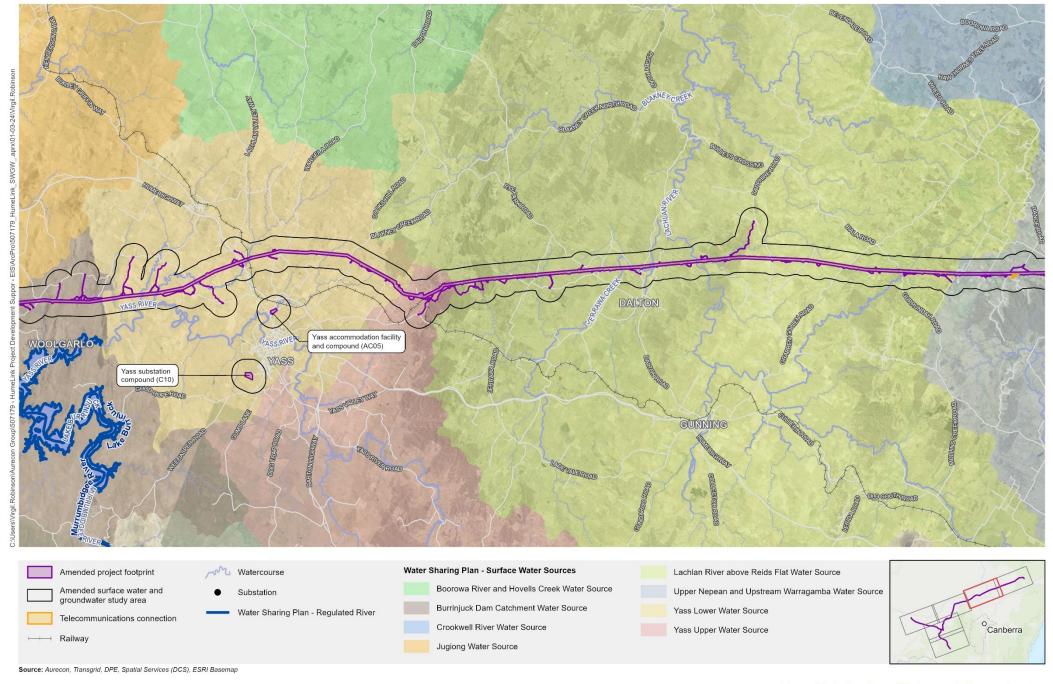
| Major Catchment | Water Sharing Plan | Water Source | Water Allocation in Water Sharing Plan (ML/year) | |
|--------------------|---|---|---|--|
| Murrumbidgee | Murrumbidgee Regulated River Water Source 2016 | Murrumbidgee Regulated River Water Source | Domestic and stock: 19,260 Local water utility: 23,816 High security: 346,207 General security: 870,331 Conveyance: 322,391 Supplementary: 945,780 | |
| | Murrumbidgee Unregulated River Water Sources 2012 | Murrumbidgee Central (Burrinjuck to Gogeldrie) Water Source | Domestic and stock: 121Unregulated river: 6,390 | |
| | | Kyeamba Water Source | Domestic and stock: 10Unregulated river: 388 | |
| | | Tarcutta Creek Water Source | Domestic and stock: 42Local water utility: 1Unregulated river: 86 | |
| | | Hillas Water Source | Domestic and stock: 28Unregulated river: 1,513 | |
| | | Adelong Creek Water Source | Domestic and stock: 63Unregulated river: 3,778 | |
| | | Gilmore/Sandy Water Source | Domestic and stock: 61Unregulated river: 4,429 | |
| | | Upper Tumut Water Source | Domestic and stock: 160Unregulated river: 272 | |
| | | Adjungbilly / Bombowlee/ Brungle Water Source | Domestic and stock: 9Unregulated river: 18 | |
| | | Jugiong Water Source | Domestic and stock: 89Unregulated river: 2,205 | |
| | | Burrinjuck Dam Catchment Water Source | Unregulated river: 12 | |
| | | Yass Lower Water Source | Domestic and stock: 1,723Unregulated river: 447 | |
| | | Yass Upper Water Source | Domestic and stock: 52Unregulated river: 1,605 | |
| Murray | Murray Unregulated River Water Sources 2011 | Maragle Water Source | Domestic and stock: 9Unregulated river: 402 | |
| | | Tumbarumba Water Source | Domestic and stock: 55Local water utility: 499Unregulated river: 993 | |
| _achlan | Lachlan Unregulated River Water Sources 2012 | Lachlan River above Reids Flat Water Source | Domestic and stock: 33Local water utility: 110Unregulated river: 1,872 | |

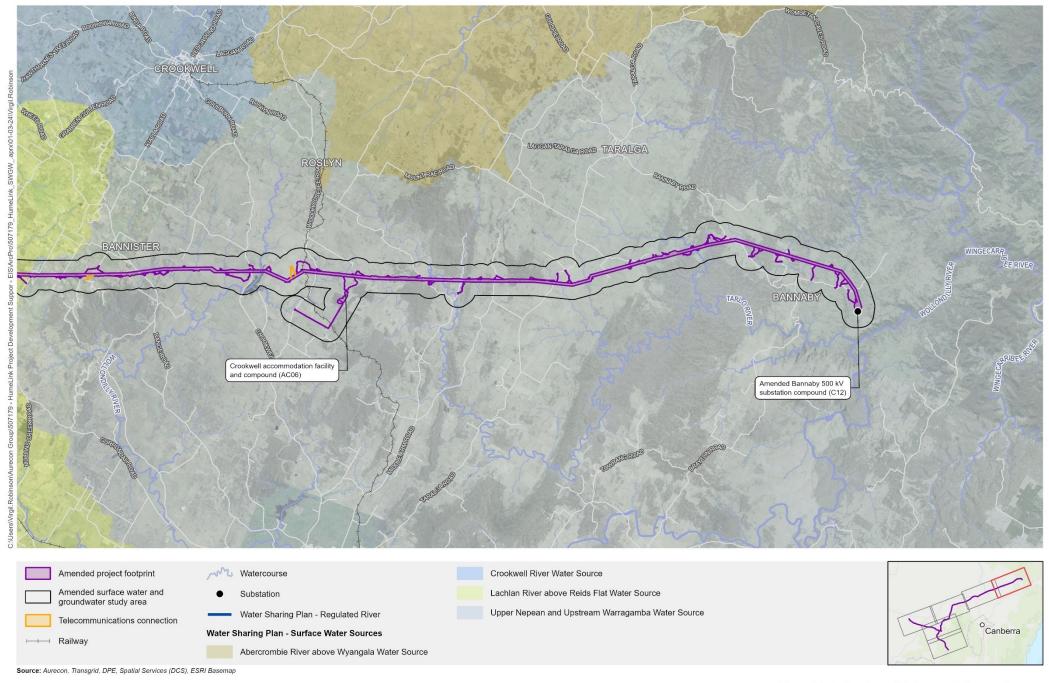
| Major Catchment | Water Sharing Plan | Water Source | Water Allocation in Water Sharing Plan (ML/year) |
|--------------------|---|---|--|
| Hawkesbury | Greater Metropolitan Region Unregulated River Water Sources 2023 | Upper Wollondilly River Water Source | Domestic and stock: 54Local water utility: 5,100Unregulated river: 949 |
| | | Lower Wollondilly River Water Source | Domestic and stock: 299Unregulated river: 5,111 |

The updated WSP figure for the amended project is presented in Figure 5-4.

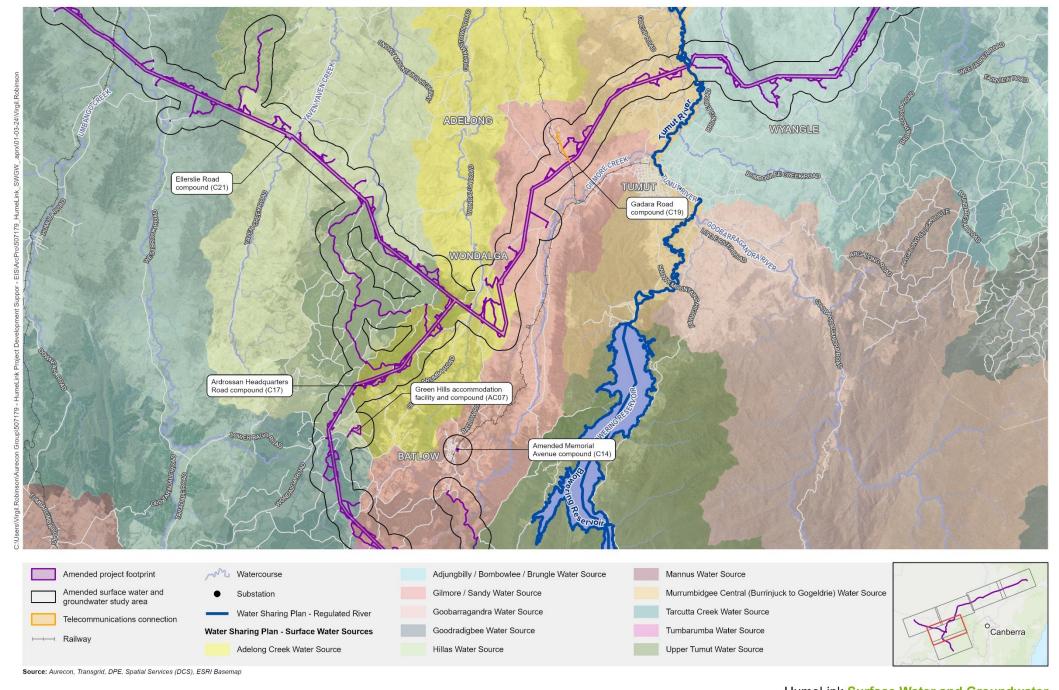


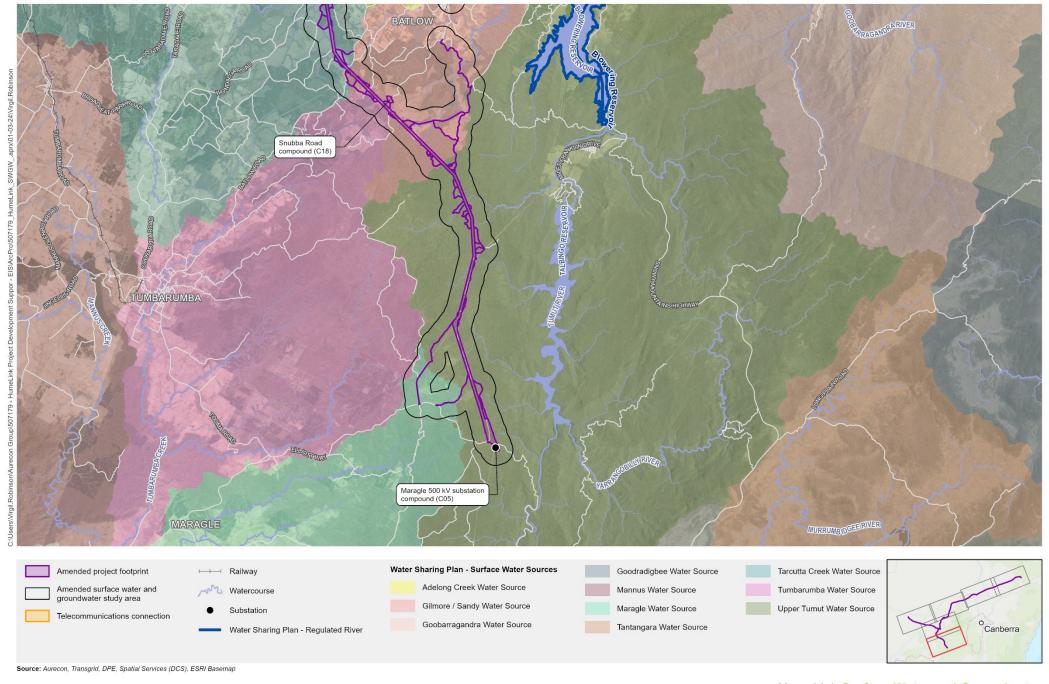






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5.2.4 Surface water quality

Surface water quality within the major surface water catchments for the amended project footprint are unchanged for amended project and are described in Section 5.3.5 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS .

5.3 Geomorphology

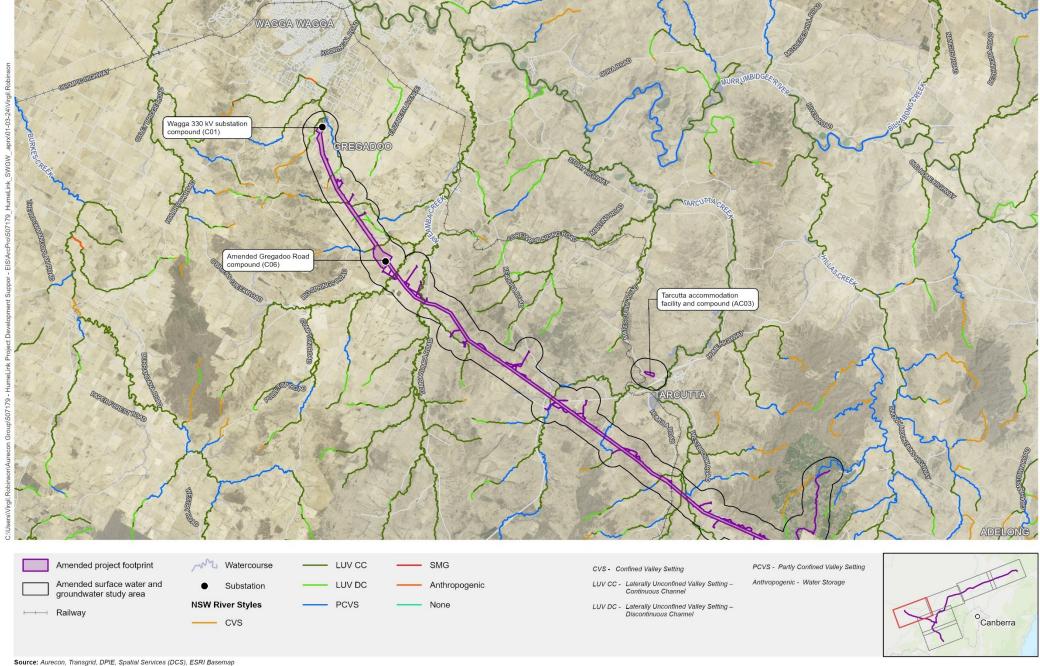
River geomorphology is described in Section 5.3.5 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS and is still relevant to the amended project footprint.

Major waterways (Strahler order 6 and above) crossed by the amended project are presented in Table 5-3. There is a reduction of Strahler order 6 and above waterways crossed by the amended project footprint. The updated table is presented below.

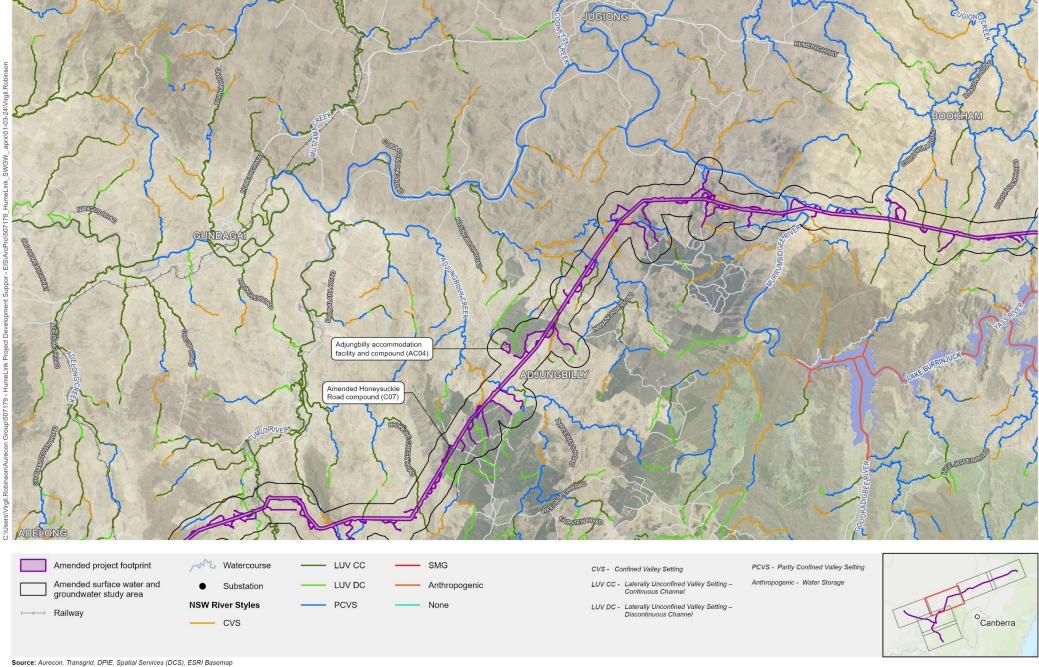
Table 5-3 River Styles of major waterway crossings

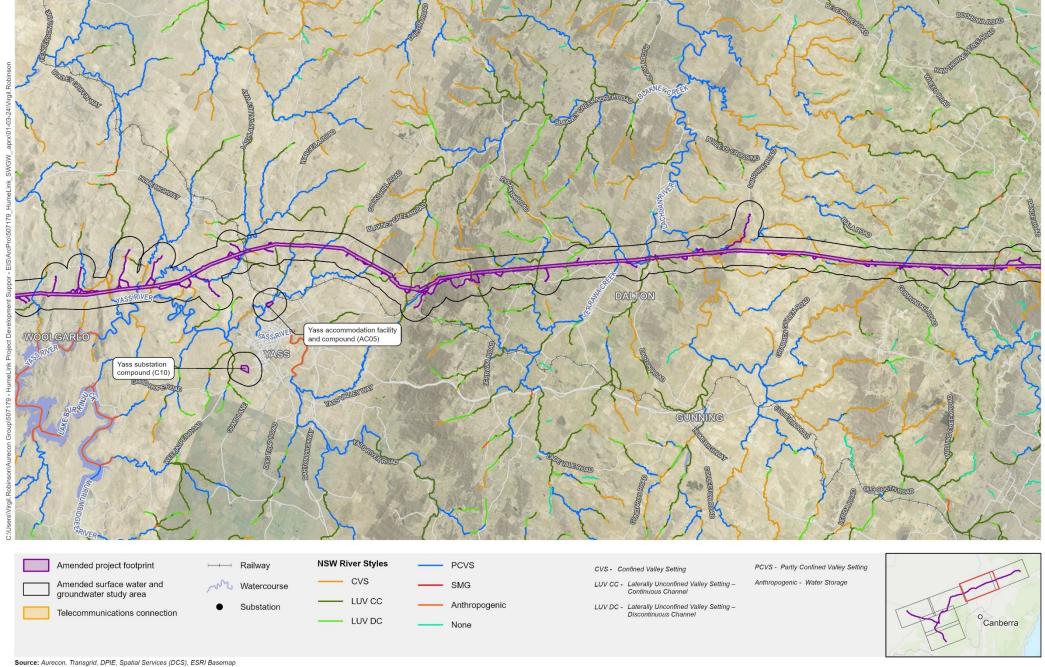
| Waterway | Stream order | NSW river style | Existing condition | Recovery potential |
|--------------------|--------------|--|--|--------------------|
| Murrumbidgee River | 9 | Bedrock controlled, gravel | Moderate condition Moderate fragility | Moderate |
| Lachlan River | 6 | Floodplain pockets, gravel | Moderate condition Moderate fragility | High |
| Tumut River | 8 | Meandering, gravel | Poor condition High fragility | Moderate |
| Kyeamba Creek | 7 | Meandering, fine grained | Moderate condition High fragility | High |
| Keajura Creek | 6 | Meandering, fine grained | Poor condition High fragility | Low |
| O'Briens Creek | 6 | Meandering, sand | Poor condition High fragility | Moderate |
| Tarcutta Creek | 6 | Low sinuosity, sand | Poor condition High fragility | Low |
| Adjungbilly Creek | 6 | Planform controlled, low sinuosity, sand | Poor condition High fragility | Moderate |

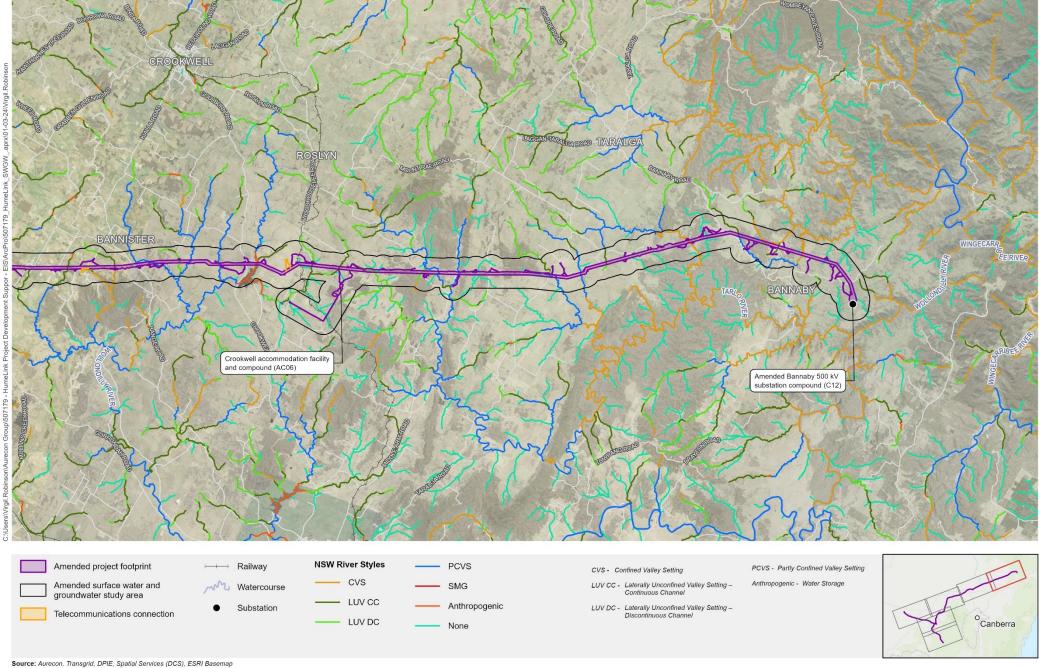
The updated river styles figure for the amended project is presented in Figure 5-5.

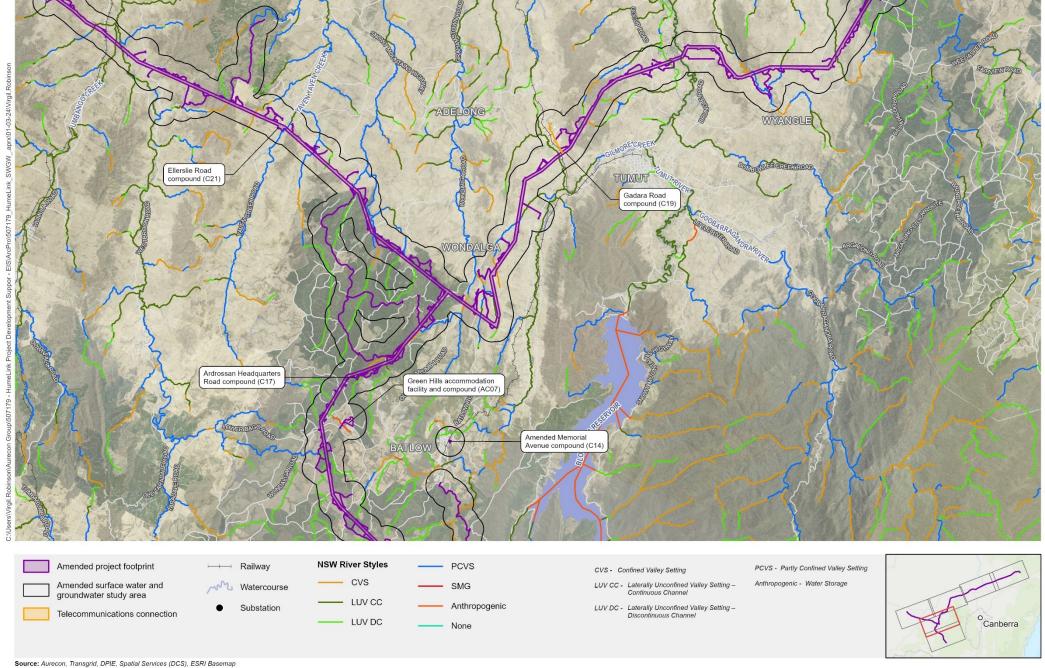


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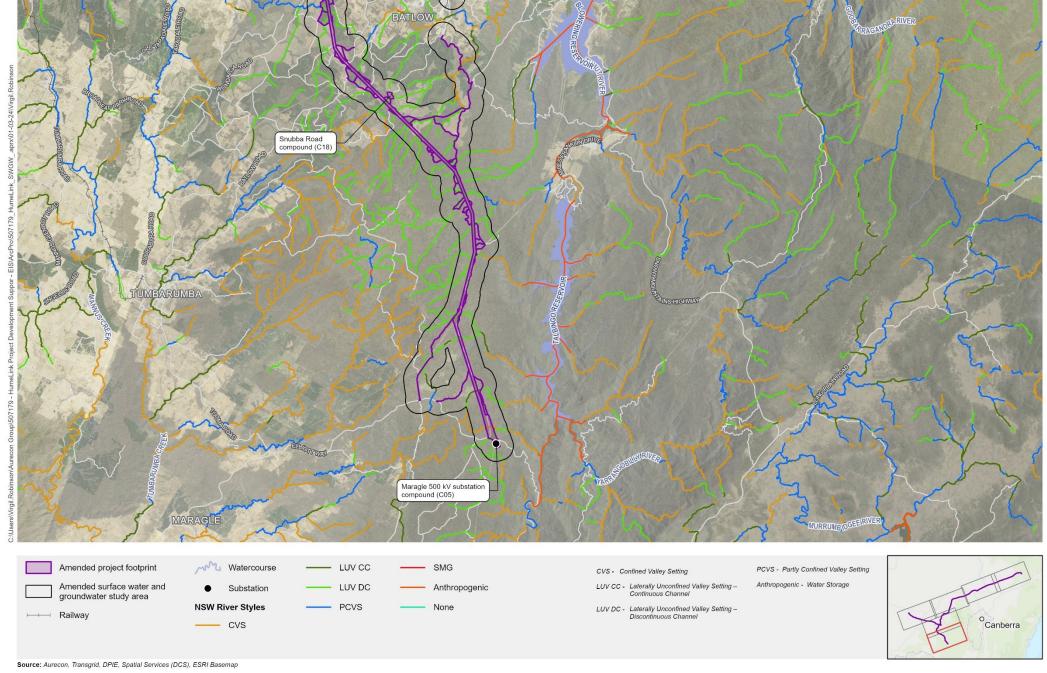




Total Color, Harrogra, Dr. 12, Spatial Colores (2005), 2011 Baseling

HumeLink Surface Water and Groundwater

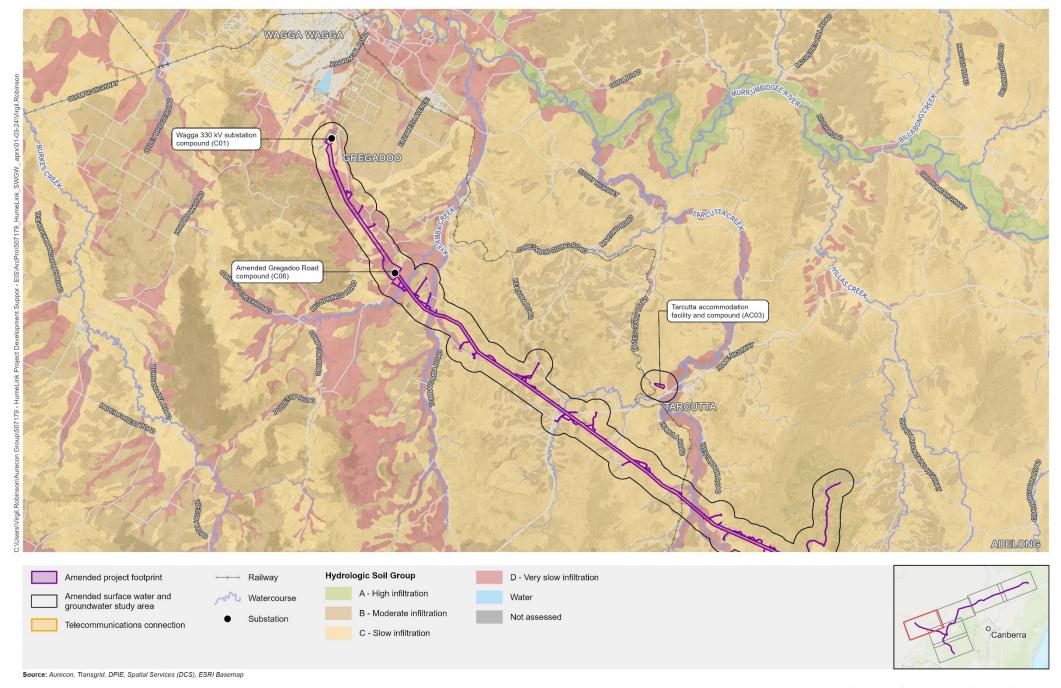
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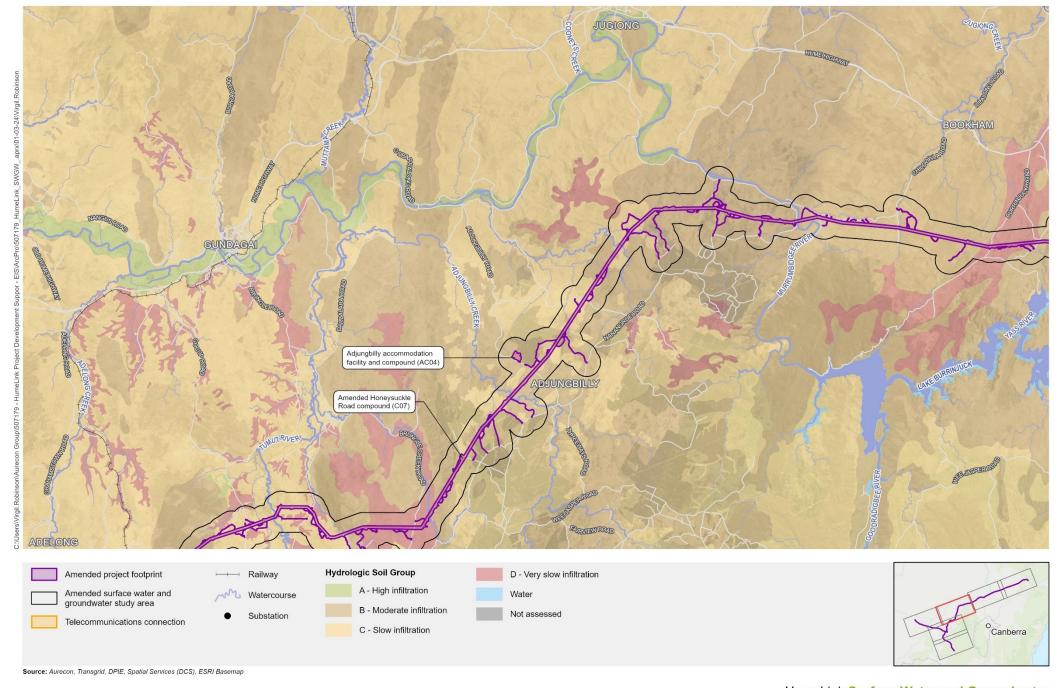
5.4 Soils and geology

5.4.1 Hydrologic soil groups

The hydrologic groups of soil within NSW are described in Section 5.4.2 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS and do not differ for the amended project. The updated Hydrologic Soil Groups figure for the amended project is presented in Figure 5-6.

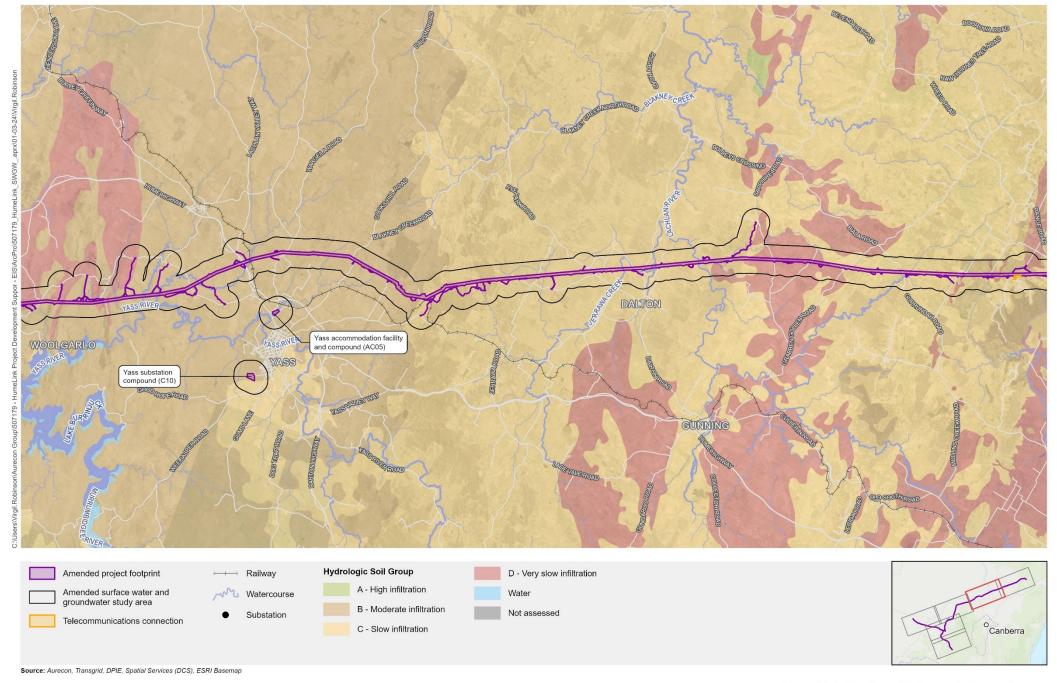


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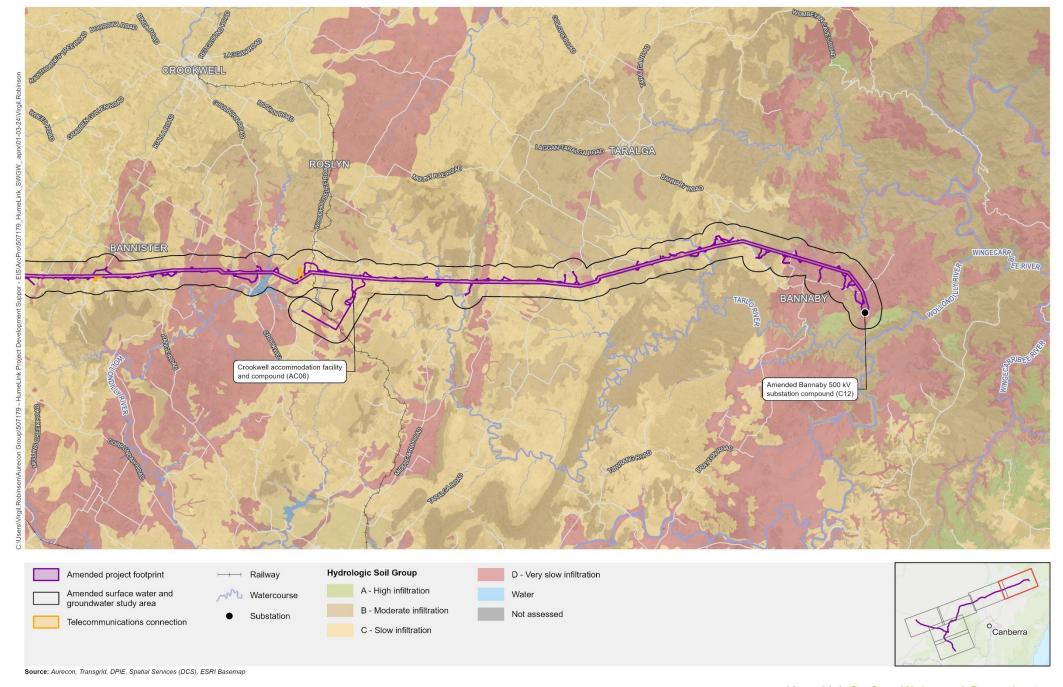


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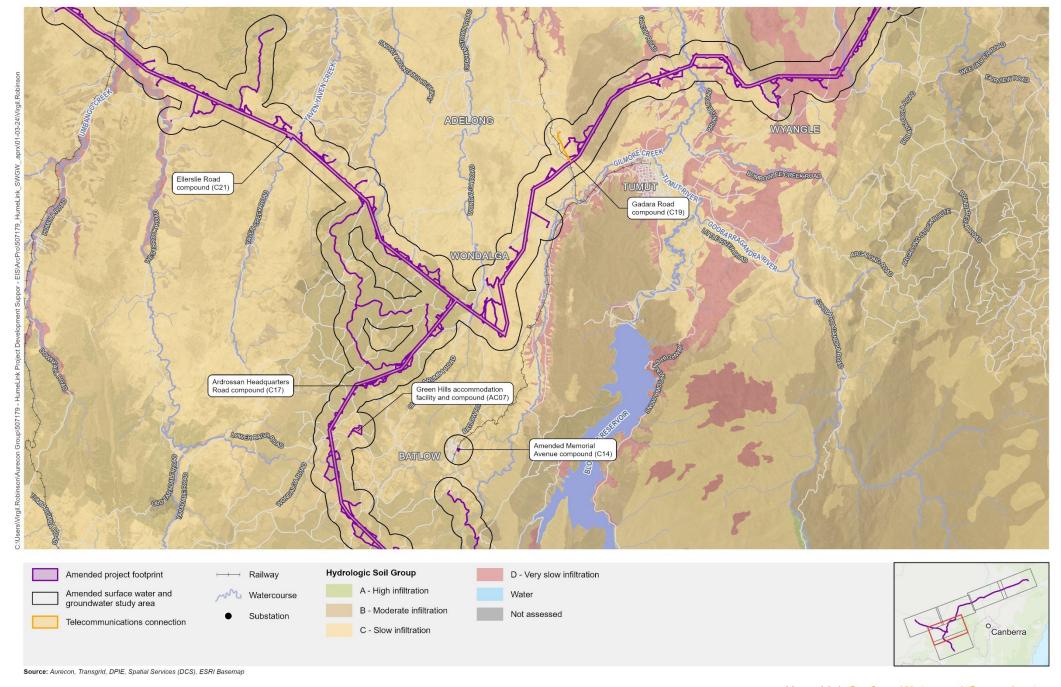
Projection: GDA 1994 MGA Zone 55



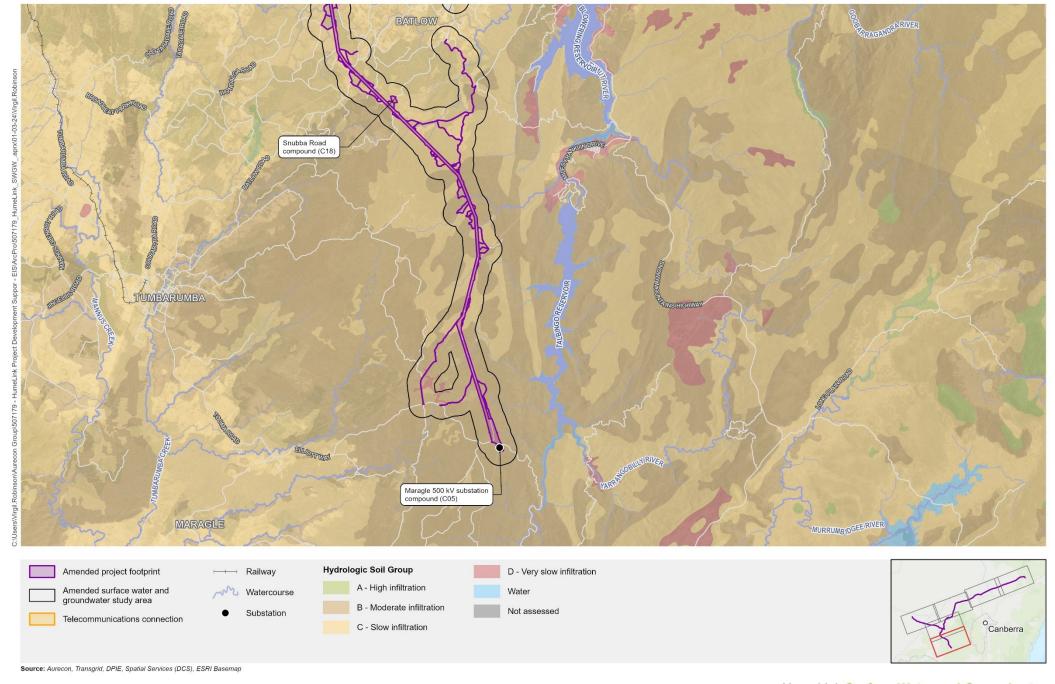
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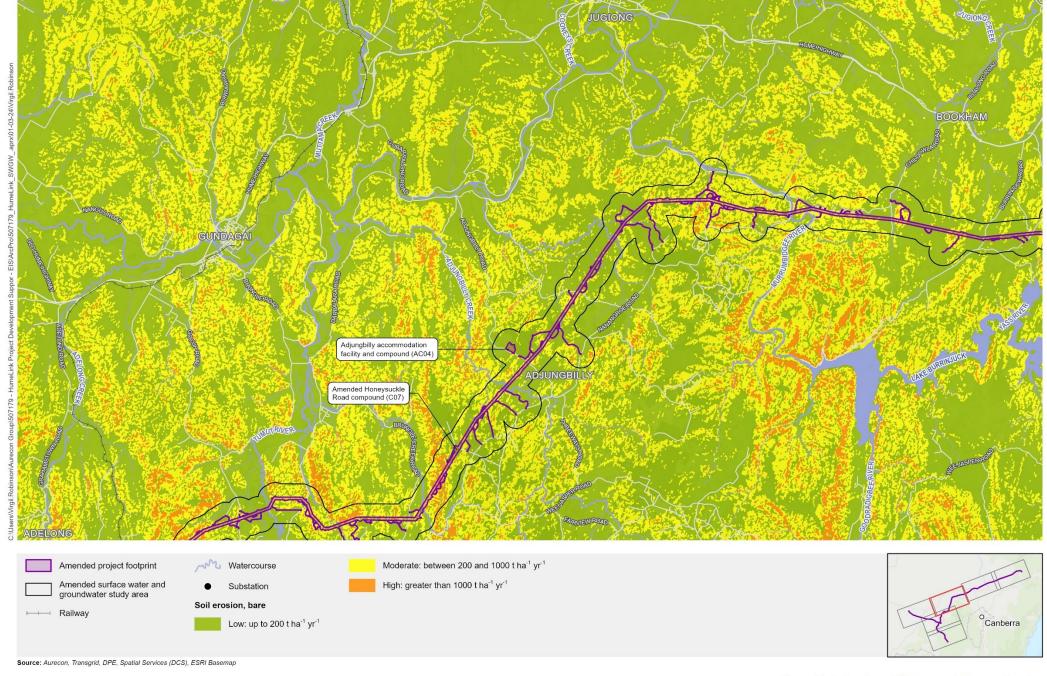
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5.4.2 Modelled soil erosion

The methodology to calculate soil erosion potential is described in Section 5.4.3 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

The updated modelled soil erosion figure for the amended project is presented in Figure 5-7. A percentage breakdown of the amended project footprint area for each erosion risk category is provided in Section 6.1.8.1 and Attachment E.





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Projection: GDA 1994 MGA Zone 55

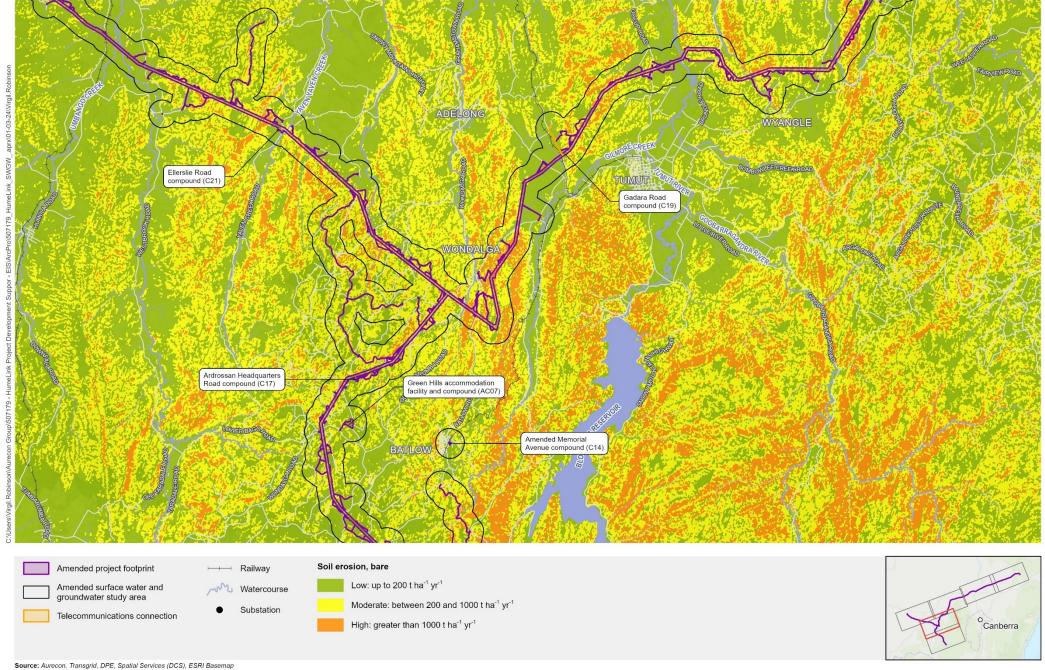


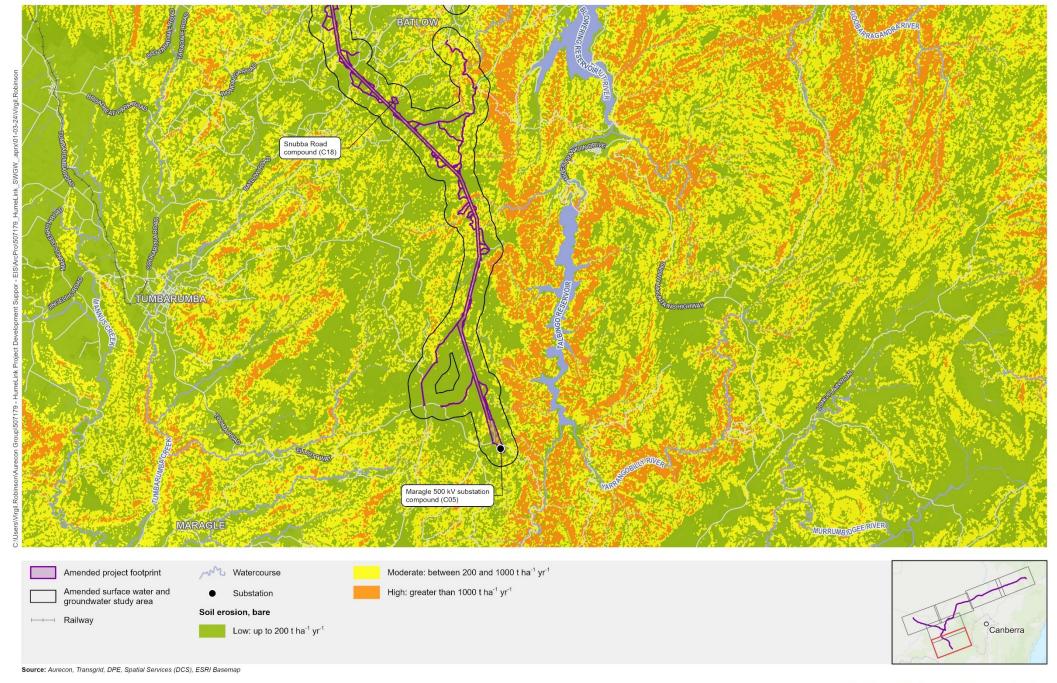
source: Aurecon, Transgna, DPE, Spanar Services (DCS), ESRI basemaj

HumeLink Surface Water and Groundwater

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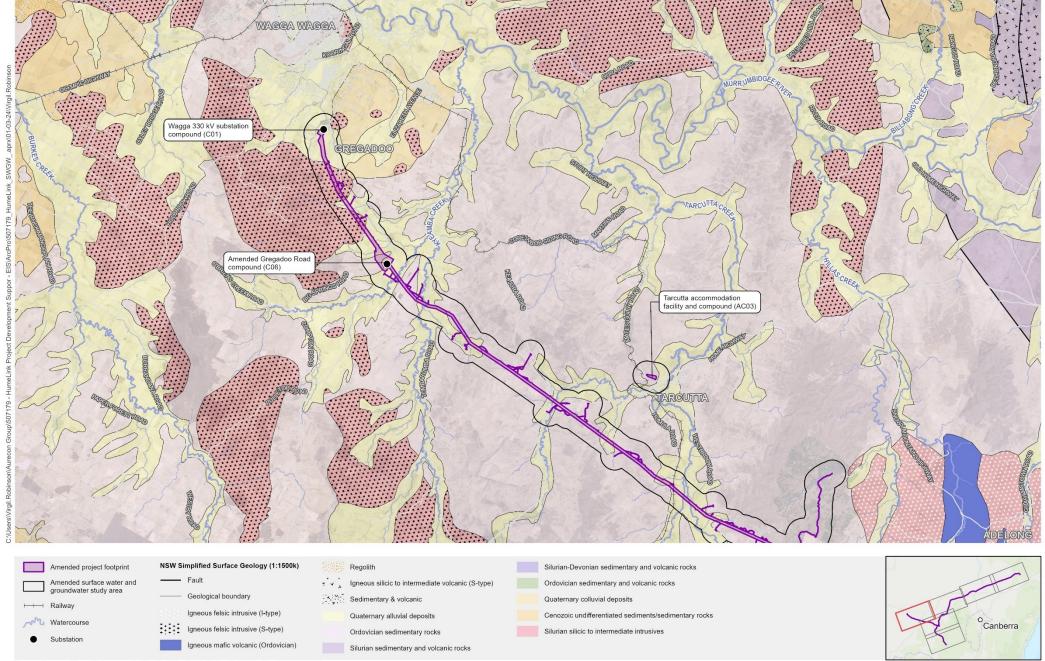


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5.4.3 Geology

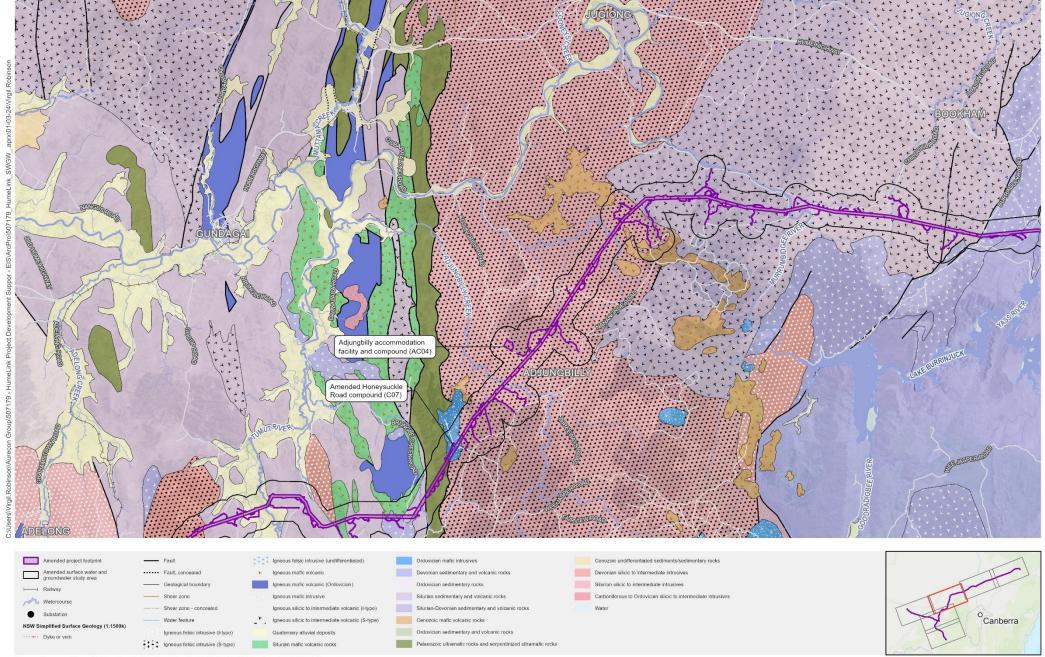
The geology of the amended project footprint is described in Section 5.4.4 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. A detailed assessment of the amended project's geology is presented in *Technical Report 10 – Phase 1 Contamination Assessment Addendum*.

An extract of the seamless geology map (Department of Regional NSW, 2021) across the amended surface water and groundwater study area is presented in Figure 5-8.



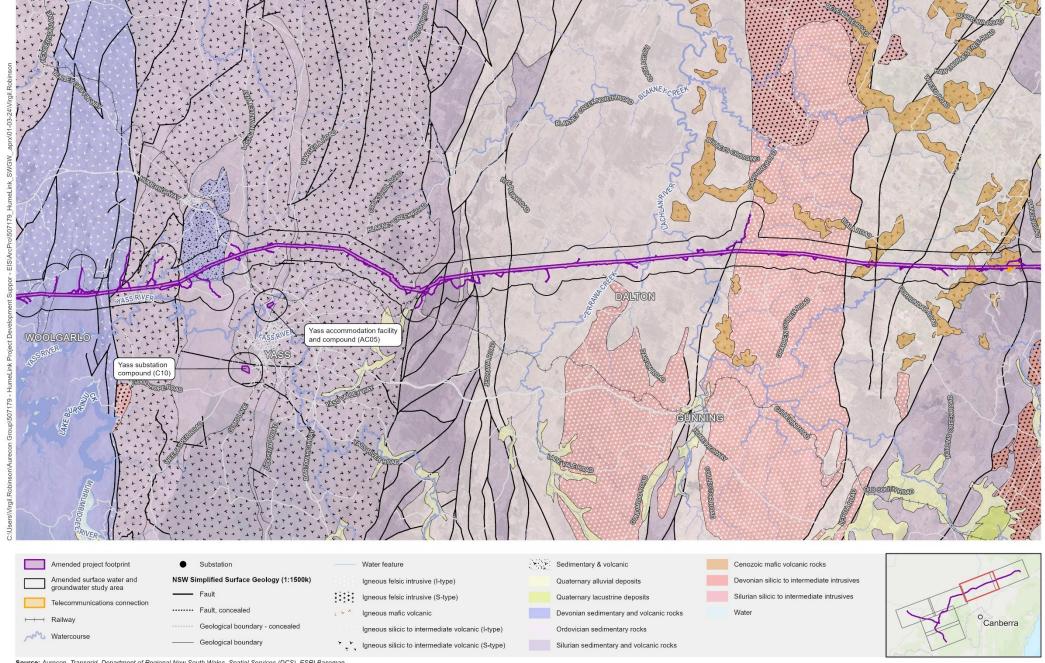
HumeLink Surface Water and Groundwater

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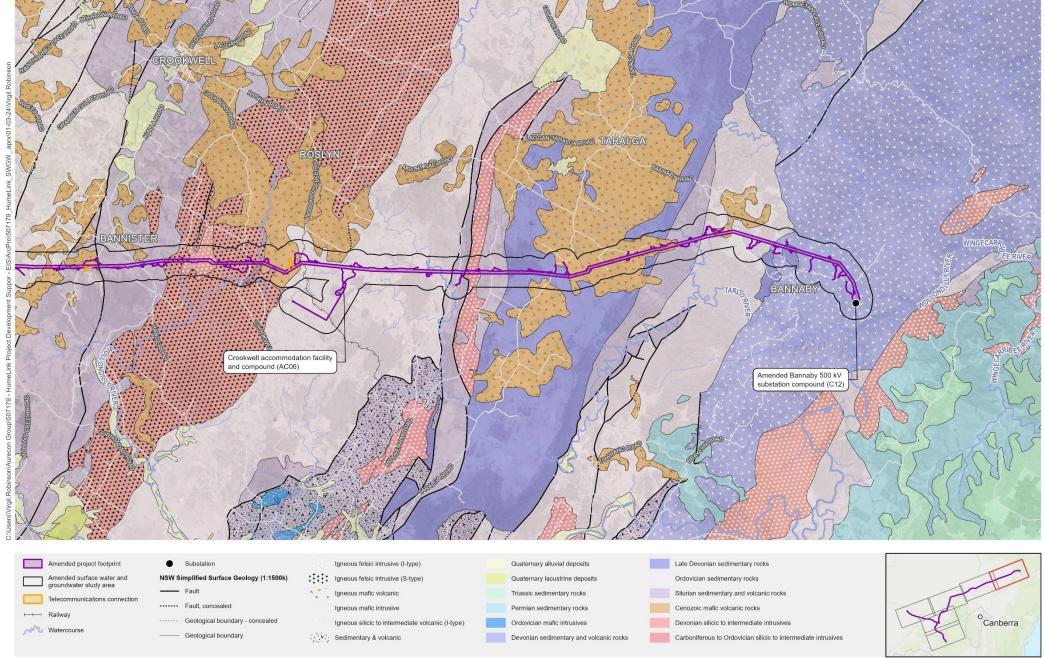
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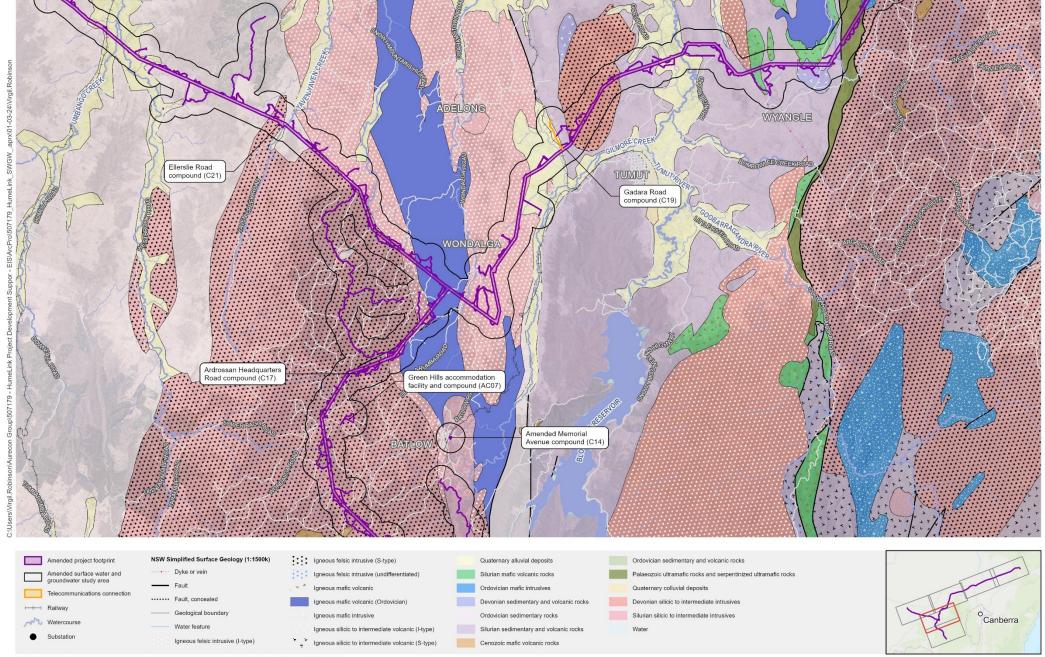
HumeLink Surface Water and Groundwater

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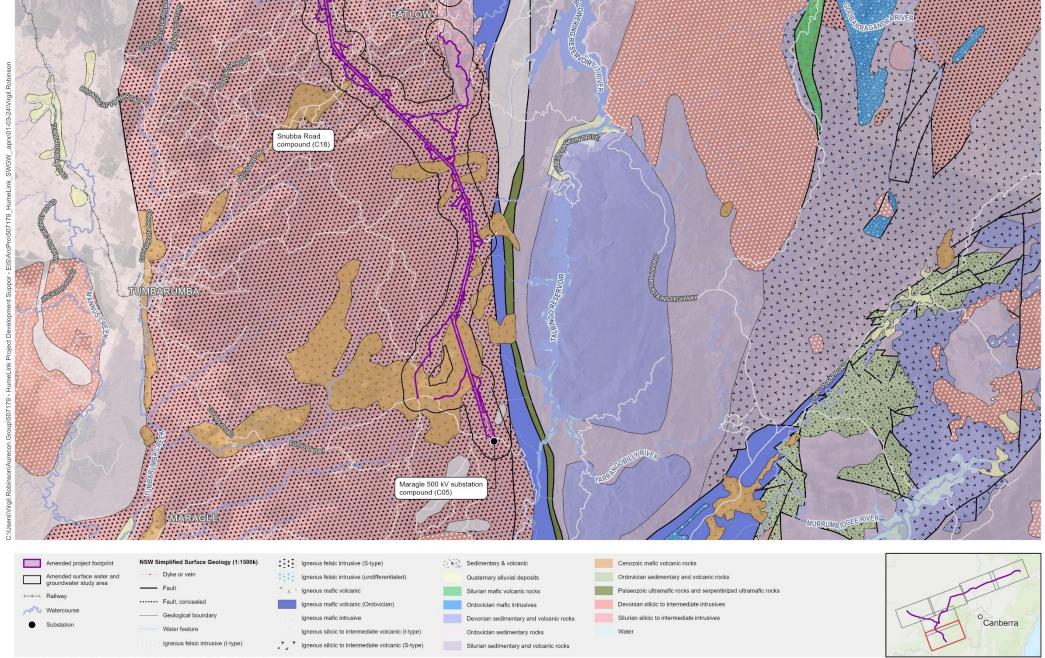
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5.5 Hydrogeology

5.5.1 Groundwater sources

Groundwater sources were presented in Section 5.5.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. This section provides an updated review of groundwater sources and associated groundwater users (registered groundwater bores) for the amended project.

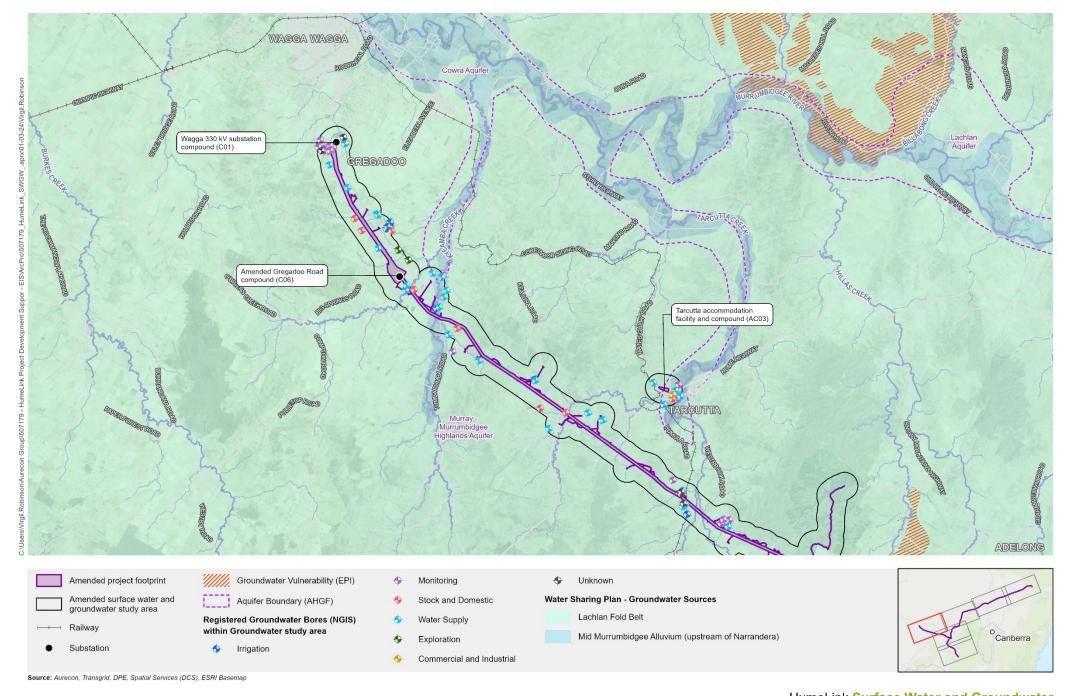
The amended project footprint intercepts the Water Resource Plans (WRPs) and WSPs listed in Table 5-4. Registered bore counts have been included within a five kilometre radius of the amended project footprint to support the water supply assessment (refer to Section 6.1.7). The WRPs are not in force at the time of this investigation, however they provide insight into groundwater occurrence, usage and regulation across the amended project footprint.

Table 5-4 Groundwater sources within five kilometres of amended project footprint

| Groundwater source | Water Sharing Plan | 2023/2024 Licenced Water Usage (ML/year and number of Water Access Licences (WAL)) | Bore count within 5 km |
|---|---|---|---------------------------|
| Kyeamba Alluvial Groundwater Source | Murrumbidgee Alluvial Groundwater Sources Order 2020 | Aquifer: 2,070 ML/year (14 WALs)Total: 2,070 ML/year (14 WALs) | 71 |
| Gundagai Alluvial Groundwater Source | Murrumbidgee Alluvial Groundwater Sources Order 2020 | Aquifer: 2,292 ML/year (16 WALs) Aquifer (high security): 1,182 ML/year (30 WALs) Local water utility: 100 ML/year (1 WAL) Total: 3,574 ML/year (47 WALs) | 61 |
| Lachlan Fold Belt MDB Groundwater Source | NSW Murray–Darling Basin Fractured Rock Groundwater Sources Order 2020 | Aquifer: 74,175 ML/year (1,067 WALs) Aquifer (general security): 0 ML/year (1 WAL) Aquifer (town water supply) 467 ML/year (6 WALs) Local water utility: 3,436 ML/year (38 WALs) Salinity and water table management: 236 ML/year (1 WAL) Total: 78,314 ML/year (1,113 WALs) | 638 |
| Lachlan Fold Belt Greater Metropolitan Groundwater Source | Greater Metropolitan Region Groundwater Sources 2023 | Aquifer: 7,999 ML/year (174 WALs) Aquifer (town water supply): 100 ML/year (2 WALs) Total: 8,099 ML/year (176 WALs) | 78 |
| Yass Catchment Fractured Rock Groundwater Sources | Murray Alluvial Groundwater Sources Order 2020 | Aquifer: 3,534 ML/year (163 WALs) Aquifer (town water supply): 29 ML/year (3 WALs) Domestic and stock: 18 ML/year (2 WALs) Local water utility: 227 ML/year (4 WALs) Total: 3,808 ML/year (172 WALs) | 272 |

Note: Water Resource Plans are not in force at the time of writing and are therefore not included in this table.

The updated figure for WSPs for groundwater for the amended project is presented in Figure 5-9.

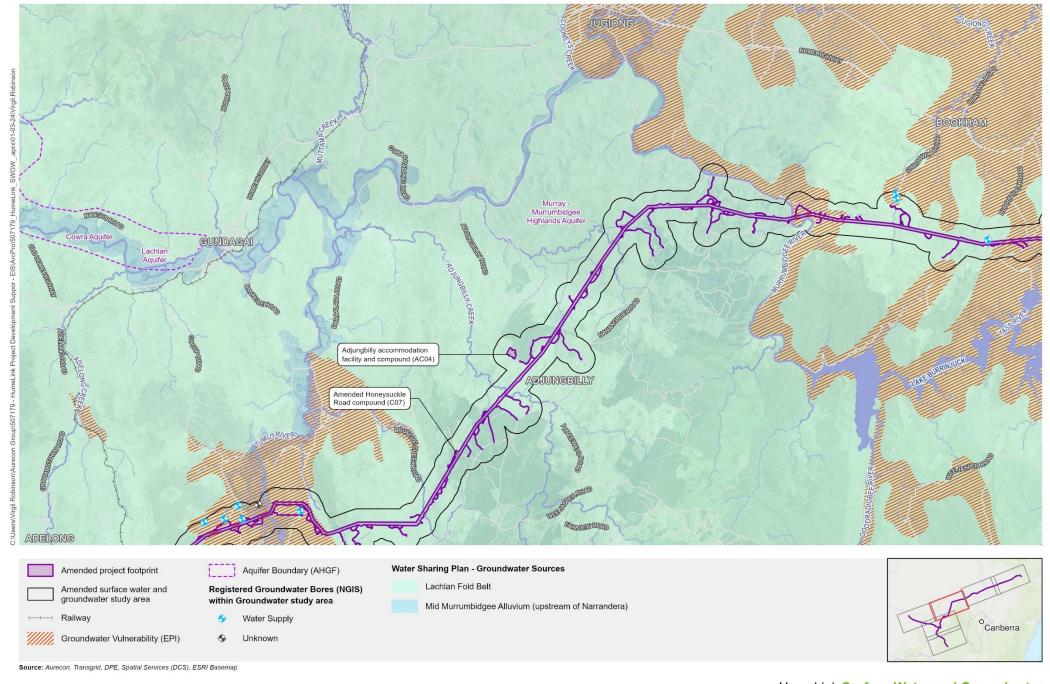


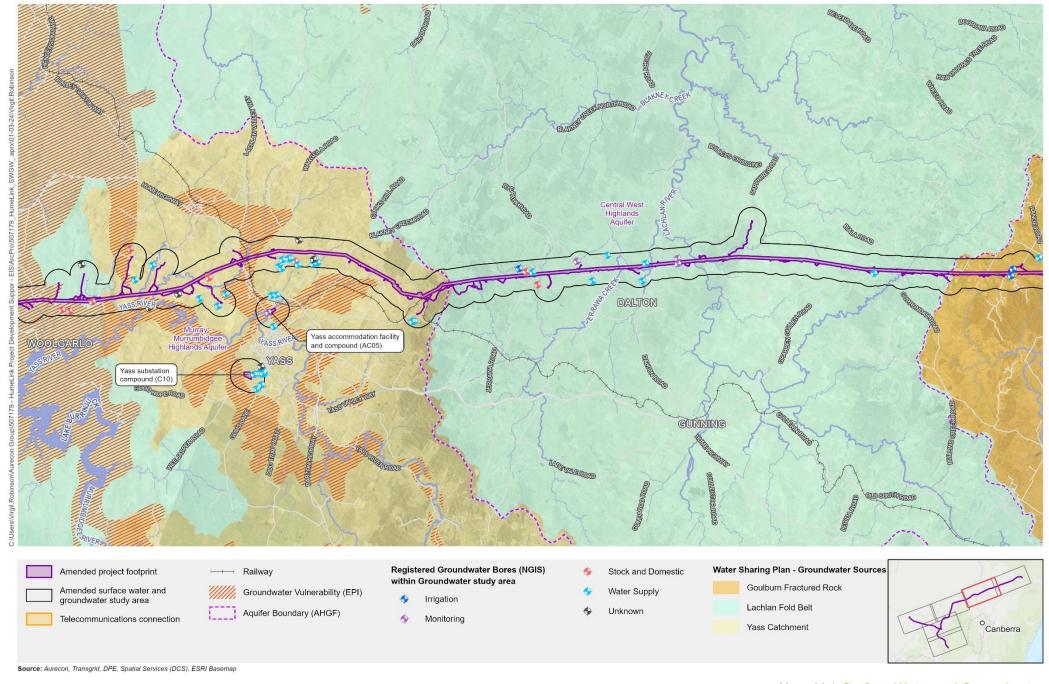


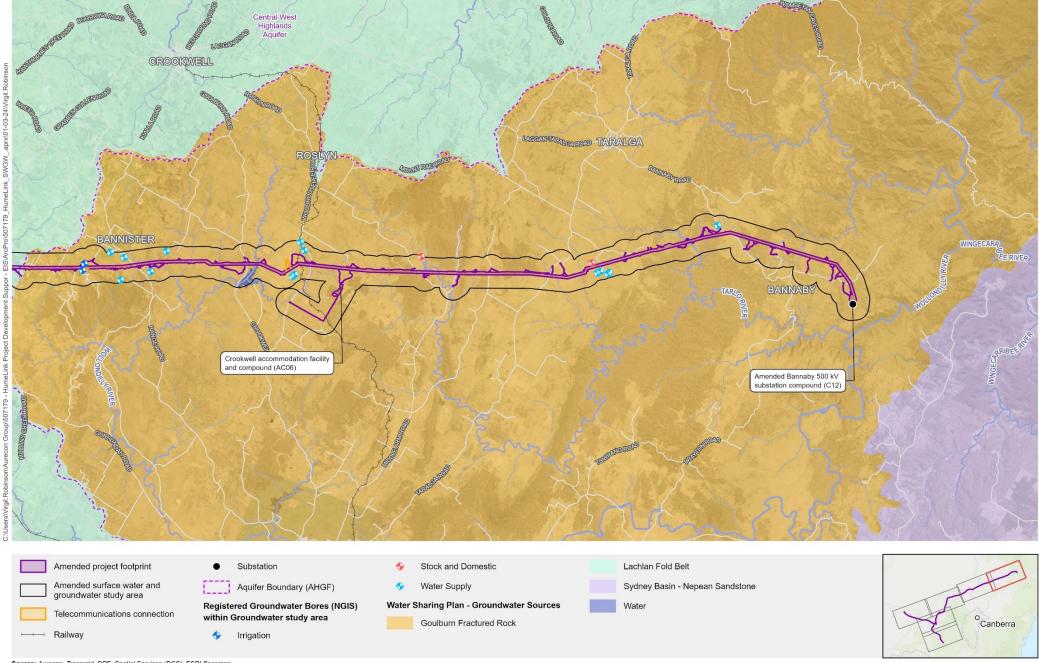
Projection: GDA 1994 MGA Zone 55

Figure 5-9a: Water Sharing Plan - Groundwater Sources

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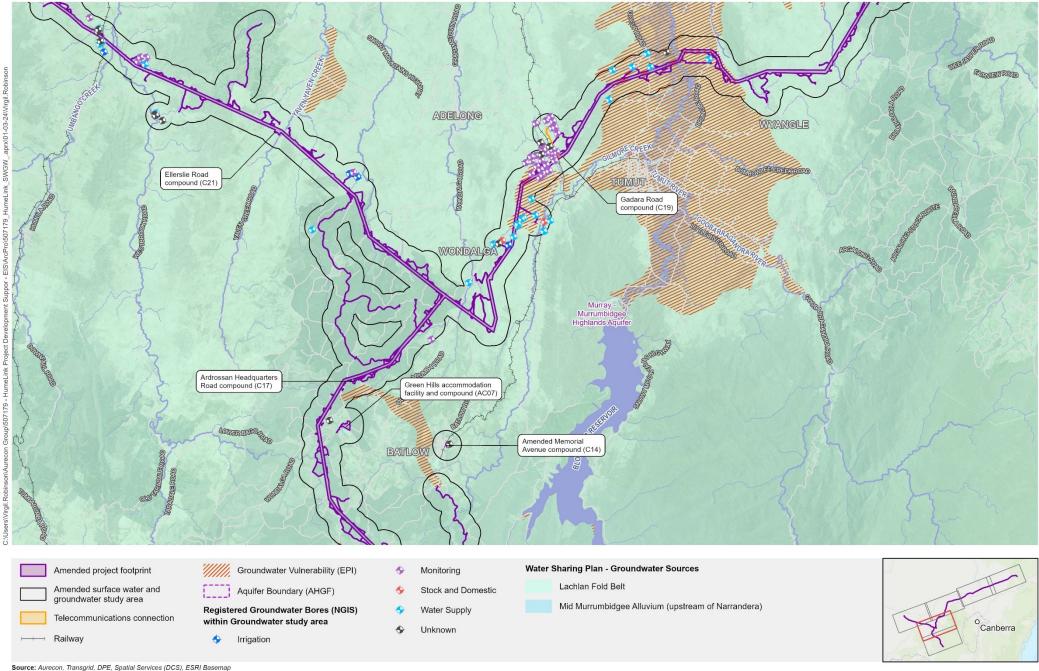


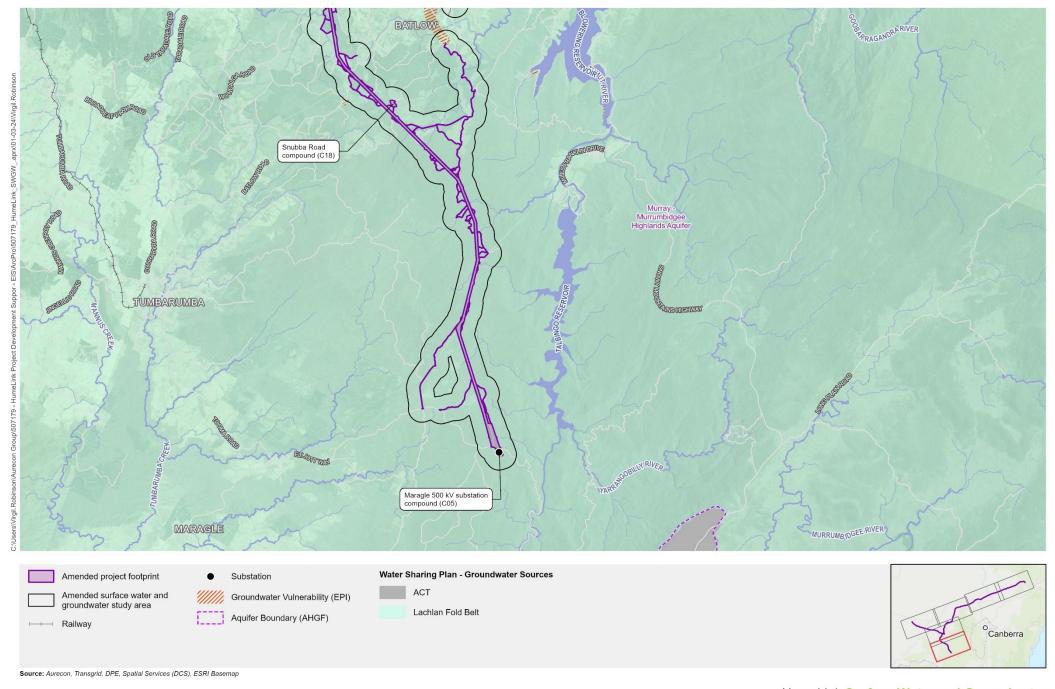


Source: Aurecon, Transgrid, DPE, Spatial Services (DCS), ESRI Basemap

HumeLink Surface Water and Groundwater

Projection: GDA 1994 MGA Zone 55





5.5.2 Registered bores

A count of bores and their respective applications within the amended surface water and groundwater study area is shown in Table 5-5. In addition, registered bore counts within a five kilometre radius of the amended project footprint have been included to support the water supply assessment (refer to Section 6.1.7). Attachment D has a comprehensive list and description of the licensed groundwater bores that are within the amended surface water and groundwater study area.

Table 5-5 Count of bores and their application within one kilometre and within five kilometres of the amended project footprint

| Bore applications | Number of bores within 1 km | Number of bores within 5 km |
|----------------------------|-----------------------------|-----------------------------|
| Monitoring | 164 | 282 |
| Exploration or research | 13 | 27 |
| Household | 209 | 471 |
| Manufacturing and industry | 6 | 14 |
| Irrigated agriculture | 36 | 97 |
| Water supply for livestock | 43 | 93 |
| Unknown | 44 | 103 |
| Water supply | 18 | 32 |
| Water supply, monitoring | 0 | 1 |
| Total | 533 | 1,120 |

Salinity and groundwater levels from the NGIS database have also been investigated and a summary is presented in Table 5-6.

Table 5-6 Summary of salinity and water levels for bore types within the amended surface water and groundwater study area

| Bore applications | Salinity ranges (µS/cm) | Bore Count with Salinity | Water Level (mbgl) | Bore Count with Water Level |
|----------------------------|----------------------------|--------------------------|-----------------------|--------------------------------|
| Monitoring | 10 - 227 | 1 | 0.32 – 227.15 | 8 |
| Exploration or research | 248 – 1,090 | 4 | 1.8 – 218.61 | 5 |
| Household | 320 – 2,570 | 4 | 6.00 – 10.55 | 2 |
| Manufacturing and industry | ND | ND | ND | ND |
| Irrigated agriculture | 275 – 2,530 | 4 | 0.27 – 16.60 | 2 |
| Water supply for livestock | 690 – 3,678 | 2 | ND | ND |
| Unknown | 698 – 1,070 | 2 | 0.29 - 0.69 | 2 |
| Water supply | 195 – 1,470 | 6 | 1.73 – 7.63 | 2 |
| Water supply, monitoring | ND | ND | ND | ND |

Note:

ND = No Data

6 Assessment of impacts

The proposed amendments and refinements, their respective activities and the associated risks on key environmental aspects and amended project timing are summarised in Table 6-1. Additional information on key environmental aspects potentially impacted is provided in Section 6.1 and Section 6.2, for construction and operational impacts, respectively.

Table 6-1 Identification of amendments and refinements and potential impacts to surface water and groundwater

| Amendment / refinement | Construction | Operation | Surface Water | Groundwater |
|---|--------------|-----------|------------------|-------------|
| Changes to the transmission line corridor including the realignment of the route through Green Hills State Forest to the west of Batlow | Υ | Υ | Υ | Υ |
| Gugga substation design refinements | Υ | N/A | Υ | N/A |
| Additional underground fibre cable connections to existing substations | Y | Υ | Y | Υ |
| Change to the number and location of construction ancillary facilities including worker accommodation facilities and construction compounds | Υ | N/A | Υ | Υ |
| Nomination of access tracks to support the construction and operation of the amended project | Y | Y | Υ | Υ |
| Use of helicopters and drones | N/A | N/A | N/A | N/A |
| Identification of areas where controlled blasting may be required | Y | N/A | Y | Υ |
| Access to water sources | Υ | N/A | Υ | Υ |

Note:

N/A = Not Applicable - amendment/ refinement does not have potential impact or impact does not change from EIS, Y = amendment/ refinement has potential impacts

6.1 Construction impacts

This section assesses the project amendments and refinements and describes their potential impacts to surface water and groundwater.

6.1.1 Transmission line corridor

The amended project includes the Green Hills corridor amendment. The new 32.5 kilometre route extends from Wondalga through the Green Hills State Forest before travelling to the west and south of Batlow and connecting to the transmission line corridor in Bago State Forest. Due to the amendments and refinements the waterways impacted are different along the alignment compared to the EIS. The updated list of named waterways for the amended project are presented in Attachment C.

The impact associated with the transmission line corridor is the erosion and sedimentation risk, which is discussed in Section 6.1.8 with a full analysis is presented in Attachment E.

6.1.2 Proposed Gugaa 500 kV substation design refinements

The amended project also involves changes to the layout of the proposed Gugaa 500 kV substation. The split bench arrangement proposed in the amended project may alter overland flows at this location, however, these changes are considered minor and there is considered no change to the impacts assessed in Section 6.2.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. Overall, the impacts are related to erosion and sedimentation risk, which is discussed in Section 6.1.8 with a full analysis presented in Attachment E.

6.1.3 Additional telecommunications connections to existing substations

Additional telecommunications connections to existing substations have been included in the amendments as described in Table 2-1. Construction activities for this amendment would mainly include vegetation removal and earthworks, which have the potential to impact both surface water and groundwater.

The three proposed additional telecommunications connections to existing substations were investigated. Generally, the areas impacted by the additional telecommunications connections to existing substations have already been cleared of vegetation as they are located on agricultural land, however, there are localised areas of riparian vegetation at two of these locations (Gullen Range and Gadara) that are related to waterways.

Their locations in relation the nearest waterfront land are presented in Table 6-2, with the Gullen Range and Gadara locations intercepting Strahler order 1 and 2 waterways. These Strahler order waterways are generally ephemeral drainage lines. Earthworks that intercept these drainage lines have the potential to increase risks associated with erosion and sedimentation, geomorphology and water quality during rainfall events. Given the ephemeral nature of these drainage lines, impacts to GDEs are not expected.

Table 6-2 Additional telecommunications connections to existing substations locations within waterfront land

| Name | Distanc | e to neares | Strahler order of | | |
|---|---------|-------------|-------------------|-------|------------------|
| Strahler order | 1 | 2 | 3 | 4+ | closest waterway |
| Additional telecommunications connection to existing - Gullen Range 330 kV substation | 0 | 961 | 2,212 | 3,084 | 4 |
| Additional telecommunications connection to existing - Crookwell 2 330 kV substation | 112 | 753 | 693 | 1,437 | 5 |
| Additional telecommunications connection to existing – Gadara 132 kV substation | 0 | 0 | 496 | 198 | 5 |

Note:

0 indicates it is within 40 metres of waterway of corresponding Strahler order

In addition, earthworks during construction of the additional telecommunications connections to existing substations have the potential to intercept groundwater and therefore may require temporary dewatering to provide a dry excavation for infrastructure installation. Drawdowns from dewatering activities and/or trenching have the potential to reduce groundwater availability for surrounding GDEs and groundwater users.

A review of registered groundwater bores within five kilometres of the additional telecommunications connections to existing substations reveal there is no groundwater level data available to carry out this assessment.

Potential impacts because of the installation of the additional telecommunications connections to existing substations are discussed further in Section 6.1.8.

6.1.4 Changes to ancillary facilities

Changes to construction compound and combined worker accommodation facility and construction compound locations are described in Table 2-1. There are five combined worker accommodation facilities and construction compounds and eleven construction compounds.

Construction compounds and combined worker accommodation facility and construction compound locations could pose a high risk to surface water as fuel, chemicals and waste are stored and/or used at these locations, and construction may be more intensive in terms of activities and vehicle movements. Due to the movement of vehicles and equipment, these areas are also likely to be subject to mechanical erosion.

The distances between combined worker accommodation facilities and construction compounds or construction compounds and waterways, and whether they are within waterfront land were determined and are presented in Table 6-3.

Table 6-3 Potential construction compound and combined worker accommodation facility and construction compound locations within waterfront land

| Amended project component | Highest Strahler order stream | Waterway name (if applicable) |
|--|-------------------------------|----------------------------------|
| Maragle 500 kV substation compound (C05) | 1 | New Zealand Gully |
| Amended Gregadoo Road compound (C06) | 2 | |
| Yass substation compound (C10) | 2 | |
| Amended Bannaby 500 kV substation compound (C12) | 1 | |
| Amended Memorial Avenue compound (C14) | 1 | |
| Gadara Road compound (C19) | 2 | |
| Ellerslie Road compound (C21) | 5 | Yaven Yaven Creek |
| Tarcutta accommodation facility and compound (AC03) | 2 | |
| Adjungbilly accommodation facility and compound (AC04) | 2 | |
| Yass accommodation facility and compound (AC05) | 5 | Bango Creek |
| Crookwell accommodation facility and compound (AC06) | 2 | |

Generally, streams with a Strahler order of 4 or higher are perennial waterways and potentially contain aquatic ecosystems and species and the consequence of any potential impacts would be higher. Therefore, the sensitivity of environmental values at each of the facilities was determined based on the following:

- High sensitivity: Facilities that are located within waterfront land of streams with a Strahler order of 4 or higher.
- Moderate sensitivity: Facilities that are located within waterfront land of streams with a Strahler order of 1 to 3.
- **Low sensitivity:** Facilities that are not located within waterfront land.

Table 6-4 summarises the sensitivity of environmental values and distances between amended project components and nearest waterfront land.

Table 6-4 Distance to waterways from construction compounds and combined worker accommodation and construction compounds

| Amended project component | Distance | to nearest | land (m) | Sensitivity of | |
|--|----------|------------|----------|----------------|----------------------|
| Strahler order | 1 | 2 | 3 | 4+ | environmental values |
| Wagga 330 kV substation compound (C01) | 127 | 830 | 59 | 234 | Low |
| Maragle 500 kV substation compound (C05) | Within | 149 | 762 | 1,674 | Moderate |
| Amended Gregadoo Road compound (C06) | Within | Within | 763 | 568 | Moderate |
| Amended Honeysuckle Road compound (C07) | 22 | 179 | 934 | 1,128 | Low |
| Yass substation compound (C10) | 11 | Within | 532 | 582 | Moderate |
| Amended Bannaby 500 kV substation compound (C12) | Within | 27 | 115 | 852 | Moderate |
| Amended Memorial Avenue compound (C14) | Within | 269 | 412 | 1,255 | Moderate |
| Ardrossan Headquarters Road compound (C17) | 177 | 106 | 45 | 2,095 | Low |
| Snubba Road compound (C18) | 8 | 466 | 818 | 2,157 | Low |
| Gadara Road compound (C19) | Within | Within | 459 | 214 | Moderate |
| Ellerslie Road compound (C21) | 53 | Within | Within | 1 | High |
| Tarcutta accommodation facility and compound (AC03) | Within | Within | 604 | 20 | Moderate |
| Adjungbilly accommodation facility and compound (AC04) | Within | Within | 737 | 2,037 | Moderate |

| Amended project component | Distance | e to nearest | Sensitivity of | | |
|--|----------|--------------|----------------|--------|----------------------|
| Strahler order | 1 | 2 | 3 | 4+ | environmental values |
| Yass accommodation facility and compound (AC05) | Within | Within | 779 | Within | High |
| Crookwell accommodation facility and compound (AC06) | Within | Within | 199 | 897 | Moderate |
| Green Hills accommodation facility and compound (AC07) | 93 | 253 | 1,101 | 2,698 | Low |

Note: 'Within' indicates the project feature is within 40 metres of a waterway of corresponding Strahler order

The highest risk locations are Ellerslie Road compound (C21) and Yass accommodation facility and compound (AC05) as both locations are located within waterfront land of Strahler order 5 waterways, namely Yaven Yaven Creek and Bango Creek, respectively.

There are several construction compounds within waterfront land of Strahler order 1 or 2 order waterways; however, generally these waterways have no defined bed and banks and no evidence of flow and geomorphic features. These waterways are generally less sensitive; however, management is still required to ensure that surface water quality impacts do not occur downstream to higher Strahler order waterways. Several construction compounds and combined worker accommodation facilities and construction compounds may require a smaller area than the amount of land that has been assessed, and therefore the adopted impact assessment approach is considered conservative.

Potential surface water and groundwater impacts related to combined worker accommodation facilities and construction compounds are discussed further in Section 6.1.8.

6.1.5 Nomination of access tracks

The locations and types of works required to construct access tracks from the transmission line corridor to the road network have been provided for the amended project. Based on detailed construction contractor inputs and as described in Table 2-1 this information is now assessed in the Amendment Report. Construction activities for the access tracks have been categorised as follows:

- Existing tracks/roads: include well-established unsealed local roads, forest roads and tracks maintained by FCNSW or unsealed property access tracks, generally suitable for heavy vehicles. Some existing access tracks/roads may be subject to maintenance activities or minor upgrades along the formation, such as resurfacing or grading or drainage work. Minor vegetation pruning/trimming may be required in some locations or where vegetation may be considered a roadside hazard. Where pruning/trimming is required, it would be undertaken to avoid impacts on the long-term viability of the vegetation.
- Upgraded tracks: Upgraded access tracks typically consist of unsealed property access tracks of varying conditions, from well-established sections to rarely used, barely visible sections (ie requiring substantial upgrade). The existing gradient of upgraded access tracks varies and may only be suitable for light vehicles without these upgrades. Upgraded access tracks are expected to require more substantial work to allow their use during construction compared with existing tracks/roads. Work may include earthworks to improve gradients, grading or resurfacing, formation widening to 8 metres or realignment, drainage work or upgrades to waterway crossings. Vegetation clearing or pruning/trimming may be required for widening/formation work or where vegetation may be considered a roadside hazard. The total clearing width would generally be up to 10 metres, with some limited areas (ie steep terrain) requiring a clearing width of up to 20 metres for batters.
- New tracks: The locations of new access tracks haves generally been selected in consultation with affected landowners to minimise property impacts, including running the track along fence lines, using movement paths preferred by landowners, and going through existing property gates. Establishing the new tracks would typically include earthworks, grading, drainage work and construction of waterway crossings. Fill material may be imported to provide a suitable capping material. To establish the new tracks, vegetation clearing or pruning/trimming may be required. The total clearing width would generally be up to 10 metres, with some limited areas (i.e. steep terrain) requiring a clearing width of up to 20 metres for batters.

New tracks are likely to have the greatest impact in terms of erosion and sedimentation as they would require the greatest ground disturbance activities. Upgraded tracks are likely to have similar impacts but to a lesser extent compared to the new tracks. Existing tracks would also involve ground disturbance, however substantially less than new and upgraded tracks. Access tracks have the greatest potential to impact waterways when they are located within waterfront land or cross waterways. Therefore, potential impact significance for each nominated access track has been determined based on the following:

- **New tracks:** Potentially high impact significance if crossing a waterway or when located within waterway buffer, potentially moderate impact significance when located outside of waterway buffer.
- Upgraded tracks: Potentially high impact significance if crossing a waterway, potentially moderate impact significance when located within waterway buffer, low impact significance when located outside of waterway buffer.
- Existing tracks/roads: Potentially moderate impact significance if crossing a waterway, low impact significance when located outside of waterway buffer.

Waterway buffers are defined based on the following distances:

- Within 50 metres from Strahler order 1
- Within 100 metres from Strahler order 2
- Within 150 metres from Strahler order 3
- Within 200 metres from Strahler order 4 or higher

To assess potential impact significance, each access track location was analysed based on their proximity to waterfront land and for potential waterway crossings. The results of the access track analysis are presented in Attachment F. A summary of this analysis is presented in Table 6-5 for the tracks within waterfront land.

Table 6-5 Count of access tracks intercepting waterfront land

| Track Category | Inside/ Outside Corridor | Total Tracks | Strahler 1 Intersect | Strahler 2 Intersect | Strahler 3 Intersect | Strahler 4+ Intersect | Strahler 4+ Within 10m |
|-------------------|--------------------------------|-----------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------|
| Existing | Inside | 0 | 0 | 0 | 0 | 0 | 0 |
| tracks/roads | Outside | 3 | 3 | 1 | 1 | 1 | 0 |
| Subtotal | | 3 | 3 | 1 | 1 | 1 | 0 |
| Upgraded | Inside | 151 | 29 | 6 | 4 | 5 | 0 |
| tracks | Outside | 390 | 213 | 99 | 65 | 48 | 4 |
| Subtotal | | 541 | 242 | 105 | 69 | 53 | 4 |
| New tracks | Inside | 154 | 59 | 15 | 4 | 5 | 1 |
| | Outside | 330 | 169 | 63 | 30 | 33 | 3 |
| Subtotal | | 484 | 228 | 78 | 34 | 38 | 4 |
| Total | | 1028 | 473 | 184 | 104 | 92 | 8 |

Potential impacts resulting from access tracks within waterfront land and waterway crossings are discussed further in Section 6.1.8.

The requirement to retain or remove access tracks will be determined in consultation with landholders once the access tracks are constructed. Existing access tracks may be upgraded, as required, to facilitate HumeLink construction activities and may remain in place (pending further consultation and noting existing usage). The use of new and substantially upgraded tracks will be discussed with individual landholders once constructed, with substantially upgraded tracks on existing alignments having a higher likelihood of retention than new access tracks. All requirements will be documented within the property specific property management plans (PMPs).

6.1.6 Changes to construction methodology

6.1.6.1 Controlled blasting

Controlled blasting has been identified as a potential construction activity as described in Table 2-1. Controlled blasting activities would involve a single blast or a series of blasts (using smooth blasting techniques) for the tower pad construction. Smooth blasting is a blasting technique using a row of closely spaced drill holes with decoupled charges (charges with a smaller diameter than the drill hole) fired simultaneously to produce an excavation contour without fracturing or damaging the rock behind or adjacent to the blasted face.

There are 21 locations in the amended project footprint that have been identified for potential controlled blasting. NSW Department of Climate Change, Energy, the Environment and Water – Water (NSW DCCEEW Water) (formerly DPE Water) requested that higher risk locations and activities such as blasting/excavating within 50 metres of high potential GDEs, registered bores or surface water bodies require further assessment against the minimal impact considerations of the NSW Aquifer Interference Policy (AIP) (NSW Government, 2012). The potential controlled blasting locations have been spatially analysed and are expected to be located within 50 metres of the following sensitive receivers (refer to Figure 6-1):

- one high potential terrestrial GDEs (from regional studies): Montane wet heath and bog of the eastern tablelands, South Eastern Highlands Bioregion
- twelve high potential aquatic GDEs (from national assessment), including:

Bannaby CreekSandy Creek

First CreekMantons Creek

Connors CreekWeir Gully

Clydes Creek
 Three Waterholes Creek

Stockmans CreekSheepyard Creek

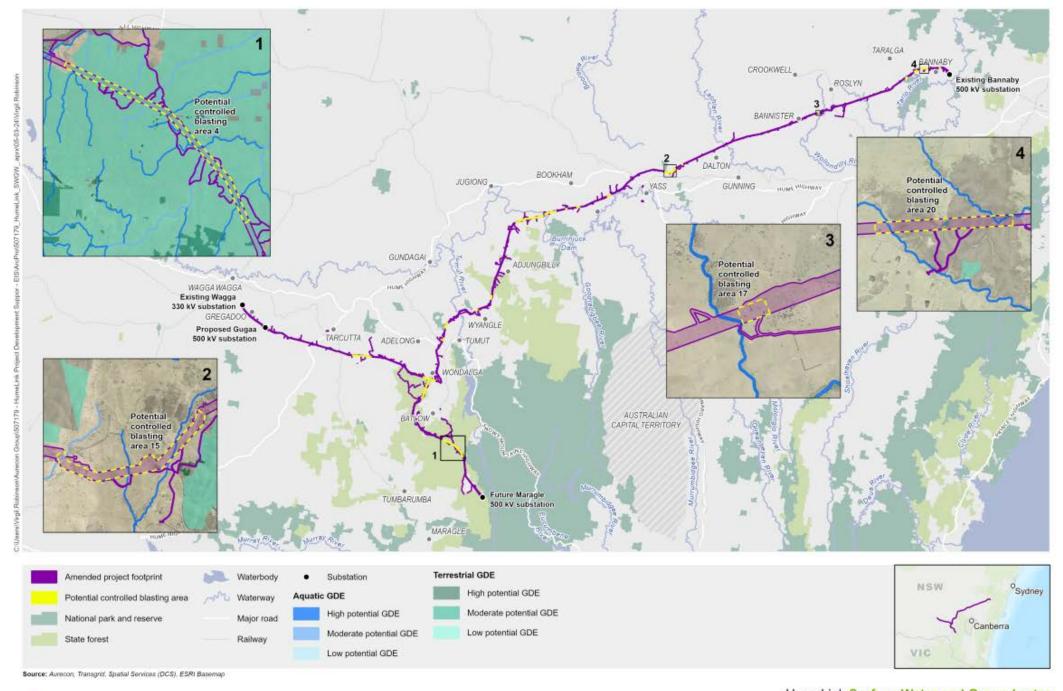
Mandys CreekAdelong Creek

- no existing water users (registered bores)
- no waterbodies (HydroArea).

All sensitive receivers identified above have been attributed to four (4) potential controlled blasting areas as follows:

- Potential controlled blasting area 4 (within the Bago State Forest)
- Potential controlled blasting area 15 (11 kilometres north-east of Yass, in the vicinity of Coolallie)
- Potential controlled blasting area 17 (1.5 kilometres west of Pejar Dam)
- Potential controlled blasting area 20 (13 kilometres east of Taralga).

Site-specific controlled blasting design and parameters would determine the magnitude of potential surface water and groundwater impacts (ie extent of rock breakage changing existing shallow groundwater flow pathways). Potential impacts because of controlled blasting are discussed further in Section 6.1.8.



1:925,000 0 20 40km

6.1.7 Construction water supply

During construction, the amended project would require potable and non-potable water and will generate wastewater. The following section assesses the:

- volumes and potential sources of water required for construction
- volumes of wastewater generated and potential options for management and disposal
- potential impacts on other water users and water supply infrastructure
- potential impacts from the disposal of wastewater.

This section expands upon the high-level water supply discussion previously presented in the EIS based on the following:

- refined/updated construction water demand estimates
- development of performance-based criteria to assess, select and establish water supply options for the amended project
- additional assessment and discussion on the feasibility of each of the identified potential non-potable and potable water sources.

6.1.7.1 Construction water demand

An estimate of the total volumes of water required for the construction of the amended project are detailed in Table 6-6. The largest need for water during construction (about 60 per cent of total water need) is for dust suppression, which would generally be non-potable water. Potable water would only be used for dust suppression if there is no other option available. Potable water is required for the combined worker accommodation facilities and construction compounds, and for concrete production.

These estimates indicate a total non-potable water demand of 429 ML and a potable water demand of 286 ML. The estimated non-potable water demand of the amended project is 68.4 ML less than the estimates presented in the EIS (amended non-potable water demand is approximately 86 per cent of the EIS estimates). Conversely, the estimated potable water demand of the amended project is 218.7 ML greater than the estimates presented in the EIS (amended non-potable water demand is approximately 425 per cent of the EIS estimates). These changes reflect improved estimates for the combined worker accommodation facilities and construction camps and additional allowance for concrete production.

Table 6-6 Estimated total water volume required during construction

| Activity/Item | Estimated total volume required (ML) - EIS | Estimated total volume required (ML) - Amended | Type of water |
|---------------------------------|--|--|------------------------|
| Dust suppression and civil work | 496.5 | 428.1 | Preferably non-potable |
| Concrete batching | 23.4 | 77.9 | Potable |
| Equipment and vehicle washdown | 1.1 | 1.1 | Non-potable |
| General worker facilities | 43.8 | 208 | Potable |
| Total | 564.8 | 715.1 | |

Note:

Water demand estimates provided by Transgrid (Request for Information # 222)

6.1.7.2 Non-potable water supply options

The viability of non-potable water sources is dependent on the location and nature of the construction activity. It is likely that a combination of water sources would be required to meet the total non-potable water demand outlined in Table 6-6.

The overview of the decision-making process recommended order based on assumed reliability/feasibility of each source is provided in Figure 6-2 below.

The various non-potable water sources would include:

- The preference is that on-site water sources (ie sediment basins, farm dams, wastewater and/or rainwater tanks) already located within the amended project footprint or on a property already impacted by the amended project footprint be used, as agreed to with the relevant landowner.
- Groundwater bores assessed as a potential water source are registered (as outlined in Section 5.5.2) with an existing licensed extraction volume and are located within five kilometres of the amended project footprint. Groundwater bores with the lowest distance to the water demand point would preferably be used over bores further away (to reduce costs and truck movements). In addition, groundwater source areas have been assessed based on the following criteria:
 - unconfined alluvial aquifers given preference over fractured rock aquifers due to higher potential yields
 - groundwater sources with higher number of registered water supply bores given preference over groundwater sources with relatively low number of registered bores due to general correlation between number of bores and expected yields
 - groundwater bores with highest existing licensed extraction volumes given preference
 - groundwater bores with the lowest distance to the water demand point given preference
 - groundwater bores with the highest expected groundwater quality given preference. This is generally
 defined by the salinity measurements within the bore (discussed in Section 5.5.2) with lower salinity
 and hardness measurements indicating higher groundwater quality.
- Surface waterways assessed as a potential water source are located within five kilometres of the amended project footprint and have a Strahler order six or above (as they are considered most likely to have sufficient flows to meet amended project's water demands). Surface waterways with the lowest distance to the water demand point would preferably be used over waterways further away (to reduce costs and truck movements). Waterways with existing access/extraction points would preferably be used in accordance with their existing Water Supply Works approval, rather than establishing new extraction points which would require a new Water Supply Works approval.

Water extraction and transportation from the source to the water demand point should minimise the need for heavy vehicle movements through residential areas and be undertaken during standard construction hours (7am to 6pm Monday to Friday, 8am to 1pm Saturday), unless otherwise undertaken in accordance with an Out-of-Hours Work (OOHW) Protocol.

Water extraction and transportation should not unreasonably impact sensitive receivers or other sensitive land uses (as defined by the Interim Construction Noise Guideline (DECC, 2009)), unless otherwise agreed with the impacted sensitive receiver.

The feasibility of each of these sources would be confirmed as part of further detailed design and construction planning.

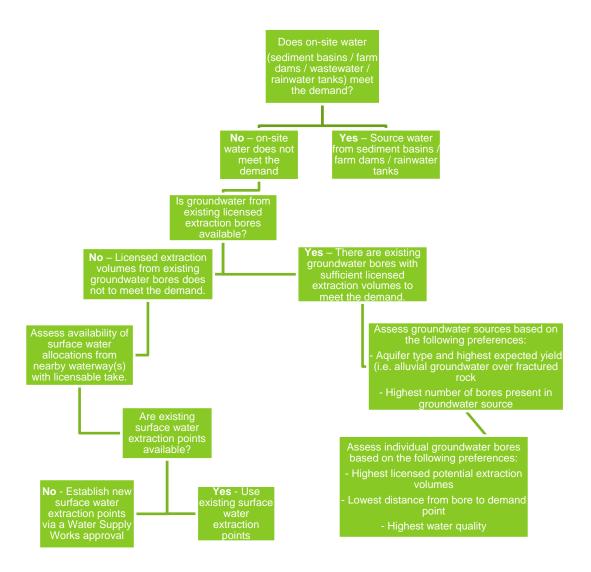


Figure 6-2 Non-potable water sources – overview of decision-making process recommended order based on assumed feasibility and reliability

6.1.7.2.1 Sediment basins / farm dams / wastewater / rainwater tanks

Where possible, non-potable water would be sourced from construction sedimentation basins, farm dams and/or rainwater tanks in agreement with the relevant landowners or from within the amended project footprint. However, these sources of water are unlikely to be able to meet the non-potable water demands in all locations across the amended project footprint and would be sporadic and potentially unreliable (ie limited supply during prolonged dry periods without rain). For the purposes of this assessment, a conservative "worst-case" scenario where no water is available from these sources has been considered. The opportunity for using sedimentation basins, farm dams, wastewater and/or rainwater tanks would be explored further during the detailed design and construction planning phases of the amended project.

6.1.7.2.2 Groundwater (from existing licensed extraction bores)

A search of the NGIS database indicates that 63 registered bores within five kilometres of the amended project footprint have licensed extraction volume information available (5.6 per cent of the total number of registered bores within five kilometres of the amended project footprint). An overview of licensed extraction volume information is provided in Table 6-7 below.

Table 6-7 Overview of NGIS bore licensed extraction volumes within 5 kilometres of the amended project footprint

| Bore applications | Amount |
|---|------------------------|
| Licensed extraction volume information available | 63 out of 1,120 (5.6%) |
| Minimum bore licensed extraction volume | 1 ML |
| Average bore licensed extraction volume | 72 ML |
| Maximum bore licensed extraction volume | 336 ML |
| Total bore licensed extraction volume | 4,546 ML |
| Non-potable water demand as a percentage of total bore licensed extraction volume within 5 kilometres of amended project footprint. | 11% |

Transgrid or the construction contractor may purchase a zero allocation Water Access Licence (WAL) in a specific WSP area, which would enable them to buy water from existing groundwater allocation holders who may wish to temporarily sell their water allocation (or part of their water allocation). A WAL with a zero-share component means that the licence holder has no specific shares in the WSP area but is allowed to have a water allocation account and to buy or transfer allocation water on an annual basis or share component from another licence holder (NSW Government, 2024b).

It should be noted that the use of groundwater from existing licensed abstraction bores would be subject to the allocation holders desire to temporarily sell their water allocation (or a portion of their water allocation) and water trading market conditions. It is recommended that the selection of groundwater bores considers the performance-based criteria outlined above.

Groundwater impacts from purchasing and using existing groundwater allocations are expected to be negligible under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the AIP during the application process. Any groundwater extraction must be carried out in compliance with the conditions stated in the existing WALs.

The distribution of licensed groundwater extraction volumes is variable across the amended project footprint. There are areas with a relatively high concentration of groundwater bores with high licensed extraction volumes (ie numerous bores within the Kyeamba Alluvial Groundwater Source with licensed extraction volumes up to 336 ML/year) and areas with relatively low concentration of groundwater bores with licensed extraction volumes (ie no bores with licensed extraction volumes in the vicinity of the amended project footprint between Killimicat and Yass and no bores with licensed extraction volumes within the Lachlan Fold Belt Greater Metropolitan Region Groundwater Source area). A summary of the available bore licensed extraction volumes for each groundwater source is summarised in Table 6-8 below. The location of these groundwater sources is illustrated in Figure 5-9.

Table 6-8 Bores and licenced extraction volumes by groundwater source

| Groundwater source | Name of plan | Bore count within 5 km | Total bore licensed extraction volume within 5 km (ML) | Assessment of potential groundwater usage and distance to nearest compound/accommodation area. |
|---|---|---------------------------------|--|--|
| Kyeamba Alluvial Groundwater Source | Water Sharing Plan for the Murrumbidgee Alluvial Groundwater Sources Order 2020 | 71 | 1,654 | Bore cluster present approximately 10 km by road to Gregadoo Road compound (C06) with a total licensed extraction volume of 1,340 ML/year. |
| Gundagai Alluvial Groundwater Source | Water Sharing Plan for the Murrumbidgee Alluvial Groundwater Sources Order 2020 | 61 | 560 | Bore cluster present approximately 1.5 km by road to Tarcutta accommodation facility and compound (AC03) with a total licensed extraction volume of 400 ML/year. |
| Lachlan Fold Belt MDB Groundwater Source | Water Sharing Plan for the NSW Murray–Darling Basin Fractured Rock Groundwater Sources Order 2020 | 638 | 2,071 | Bore cluster present approximately 1 km by road to Gadara Road compound (C19) with a total licensed extraction volume of 260 ML/year. |

| Groundwater source | Name of plan | Bore count within 5 km | Total bore licensed extraction volume within 5 km (ML) | Assessment of potential groundwater usage and distance to nearest compound/accommodation area. |
|---|--|---------------------------------|--|--|
| Lachlan Fold Belt Greater Metropolitan Groundwater Source | Greater Metropolitan Region Groundwater Sources 2023 | 78 | 0 | No licensed extraction volumes within 5 km of amended project footprint. |
| Yass Catchment Fractured Rock Groundwater Sources | Water Sharing Plan for the Murray Alluvial Groundwater Sources Order 2020 | 272 | 261 | Bore present approximately 300 m by road to Yass substation compound (C10) with a total licensed extraction volume of 100 ML/year. |

Note:

Water Resource Plans not in force at the time of writing, therefore not included

Due to the variable distribution of registered bores with licensed extraction volume information along the amended project footprint, there are areas where sourcing non-potable water supply from existing bores is feasible and other areas where it may not be feasible. Based on the information presented in Table 6-8, the following general comments can be made regarding groundwater water supply:

- potentially feasible in the vicinity of the Kyeamba Alluvial Groundwater Source, Gundagai Alluvial Groundwater Source and Lachlan Fold Belt MDB Groundwater Source areas
- unlikely to be feasible for the amended project between Killimicat and Yass
- unlikely to be feasible in the Lachlan Fold Belt Greater Metropolitan Groundwater Source area.

In using groundwater, the quality of groundwater would also need to be considered (ie salinity and hardness), to avoid contamination or salinisation of surface soils from land application. However, the risk of this occurring would be relatively low as land application of groundwater would be short-term until groundcover is established (unlike activities such as irrigated agriculture).

For areas where sourcing non-potable water supply from existing bores is not feasible, the availability of surface water allocations from nearby waterway(s) with licensable take would be assessed in future planning (discussed below).

6.1.7.2.3 Surface waterways (purchasing water from existing allocation holders from existing extraction points)

Another non-potable water supply option would be the temporary purchase of surface water allocations from water allocation holders with an existing WAL from existing extraction points. General security licence allocations are the most commonly traded water allocation and most likely to provide a dependable high-volume source of non-potable water. Transgrid or the construction contractor may purchase a WAL in a with a zero-share component for a specific WSP area, which would enable them to buy water from other existing water allocation holders who wish to temporarily sell their water allocation (or a portion of their allocation). A WAL with a zero-share component means that the licence holder has no specific shares in the WSP area but is allowed to have a water allocation account and to buy or transfer allocation water on an annual basis or share component from another licence holder.

The availability and existing use of surface water resources is variable across the amended project and is outlined in Section 5.2.3. A summary of waterways within five kilometres of the amended project footprint with a Strahler order 6 or above (considered most likely to have sufficient flows to meet amended project water demand) is provided in Table 6-9 below.

Where possible, the preference would be to use existing water extraction points, subject to agreement with the relevant landowners. Constructing/installing new extraction points along an identified surface waterway may be required if there are constraints (ie if the existing extraction point is not accessible for a water cart/tanker etc). A Water Supply Work Approval would be required to construct and use a water supply work at a specified location (ie to install and operate a pump or dam). A Water Supply Work Approval allows you to use water from a river, lake, or groundwater source, and to construct infrastructure to do this. This is in addition to a WAL (described above) which would also be required to account for the water taken.

Table 6-9 Waterways Strahler order 6 and above within 5 kilometres of the amended project footprint with current surface water allocations

| Waterway | Strahler order | Assessment of potential usage and distance to nearest construction compound or combined worker accommodation facility and construction compound. | Water source | 2023/2024 licenced water usage (ML/year) | |
|--------------------------|-------------------|---|--|---|--|
| Adjungbilly Creek | 6 | intersected by transmission line corridor 2.5 km from Adjungbilly accommodation facility and compound (AC04) 5.5 km from Amended Honeysuckle Road compound (C07) | Adjungbilly / Bombowlee/ Brungle Water Source | 643 ML/year (18 unregulated river access licences) | |
| Gilmore Creek | 6 | 1.5 km east of transmission line corridor 2 km from Gadara Road compound (C19) 3 km from Amended Memorial Avenue compound (C14) 4 km from Snubba Road compound (C18) | Gilmore/Sandy Water Source | 4,429 ML/year (85 unregulated river access licences) | |
| Yaven Yaven Creek | 6 | intersected by transmission line corridor 50 -100 m from Ellerslie Road compound (C21) | Hillas Water Source | 1,513 ML/year (18 unregulated river access licences) | |
| Kyeamba Creek | 7 | intersected by transmission line corridor 3 km from Amended Gregadoo Road compound (C06) | Kyeamba Water Source | 388 ML/year (3 unregulated river access licences) | |
| O'Briens Creek | 6 | intersected by transmission line corridor 1 km from Amended Gregadoo Road compound (C06) | | | |
| Tooles Creek | 6 | 0.5 km south of transmission line corridor 4.5 km from Amended Gregadoo Road compound (C06) | | | |
| Lachlan River | 6 | intersected by transmission line corridor | Lachlan River above Reids Flat Water Source | 1,872 ML/year (28 unregulated river access licences) | |
| Bannaby Creek | 6 | 1 km north of transmission line corridor 4.5 km from Amended Bannaby 500 kV substation compound (C12) | Lower Wollondilly River Water Source | 5,111 ML/year (78 unregulated river access | |
| Melamalong Creek | 6 | 1 km south of transmission line corridor 3.5 km from Crookwell accommodation facility and compound (AC06) | Source | licences) | |
| Myrtle Creek | 6 | intersected by transmission line corridor | - | | |
| Tarlo River | 6 | intersected by transmission line corridor 7.5 km from Crookwell accommodation facility and compound (AC06) 2 km from Amended Bannaby 500 kV substation compound (C12) | | | |
| Wollondilly River (east) | 8 | approx. 2 km from Amended Bannaby 500 kV substation compound (C12) | | | |

| Waterway | Strahler order | Assessment of potential usage and distance to nearest construction compound or combined worker accommodation facility and construction compound. | Water source | 2023/2024 licenced water usage (ML/year) | |
|--------------------------|-------------------|---|--|---|--|
| Wollondilly River (west) | 6 | intersected by transmission line corridor 6.5 km from Crookwell accommodation facility and compound (AC06) | | | |
| Crooked Creek | 6 | 2 km from Wagga 330 kV substation compound (C01) | Murrumbidgee Central | 6,390 ML/year (50 unregulated | |
| Nimbo Creek | 8 | ■ 3.5 km north of transmission line corridor | (Burrinjuck to Gogeldrie) | river access licences) | |
| Oak Creek | 6 | intersected by transmission line corridor 8 km from Adjungbilly accommodation facility and compound | Water Source | iicerices) | |
| Murrumbidgee River | 9 | intersected by transmission line corridor 23 km from Adjungbilly accommodation facility and compound (AC04) | Murrumbidgee Regulated River Water Source | 1,892,090 ML/year (884 general security access licences) | |
| Tumut River | 8 | intersected by transmission line corridor 3 km from Maragle 500 kV substation compound (C05) 14 km from Amended Honeysuckle Road compound (C07) | Source | access licerices) | |
| Keajura Creek | 6 | intersected by transmission line corridor 1 km from Tarcutta accommodation facility and compound (AC03) | Tarcutta Creek Water Source | 5,170 ML/year (86 unregulated river access licences) | |
| Tarcutta Creek | 7 | intersected by transmission line corridor approx. 1 km from Tarcutta accommodation facility and compound (AC03) | | | |
| Umbango Creek | 7 | intersected by transmission line corridor 13.5 km from Ellerslie Road compound (C21) | - | | |
| Yass River | 6 | 1 km south of transmission line corridor 2.5 km from Yass substation compound (C10) 0.5 km from Yass accommodation facility and compound (AC07) | Yass Lower Water Source | 447 ML/year (15 unregulated river access licences) | |

6.1.7.3 Potable water supply options

The viability of potable water sources is dependent on the location (ie distance to nearest town/population centre with a potable water supply). It is likely that a combination of water sources would be required to meet the total potable water demand outlined in Table 6-6. The various potable water sources are outlined in recommended order below.

6.1.7.3.1 Direct connection to council water reticulation system

Where possible, it is recommended that potable water be sourced via direct connection with existing council water reticulation systems. However, council water reticulation systems would only be present in the vicinity of towns/population centres and therefore direct connection is unlikely to meet the potable water demands in all locations across the amended project footprint. Further consultation would be undertaken with local councils to ensure there is sufficient capacity within the existing water reticulation systems to meet the potable water demand.

6.1.7.3.2 Transported from nearby town via water cart/tanker

Where direct connection to existing council water reticulation systems is not available/feasible, potable water could be transported from a nearby town/population centre to the point of usage via water carts/tankers.

Availability of this potable water source is expected to be identical to that outlined in Section 6.1.7.3.1 above. Further consultation would be undertaken with local councils to ensure there is sufficient capacity within the nearby town/population centre to meet the potable water demand.

6.1.7.3.3 Purchased from third party commercial supplier(s)

If the potable water supply options outlined above are not feasible, potable water could be purchased from a third-party commercial supplier(s). Further consultation would be undertaken with potential suppliers to ensure compliance with health, safety, and environmental regulations. Procurement processes would consider the supplier(s) capability of meeting the projects water demands, including the quantity and frequency of water deliveries and water quality control measures.

6.1.7.3.4 On-site water treatment systems in conjunction with non-potable sources (outlined above)

If the potable water supply options outlined above are not feasible, on-site water treatment systems should be considered to treat non-potable water sources to potable water quality. Treatment requirements would be determined based on the receiving quality of the non-potable water source and the relevant water quality criteria for the intended usage (ie Australian Drinking Water Guidelines, NRMHC (2011)) would need to be adhered to for consumption at construction compounds and combined worker accommodation facilities and construction compounds.

Establishing temporary on-site treatment systems during construction would likely involve containerised and/or skid mounted water treatment plants which would be decommissioned upon completion of construction. These would require additional power supplies and would generate another waste stream that would require disposal. As such, this is the least desirable option.

6.1.7.4 Water disposal

Proper management and disposal of wastewater is essential in protecting the health and quality of surrounding waterways and the environment. Daily estimates for wastewater generation have been considered for the amended project footprint. Wastewater treatment facilities may be used to treat wastewater from amenities at the nominated worker accommodation facilities and at the Amended Gregadoo Road compound (C06) and Amended Bannaby 500 kV substation compound (C12). Daily volumes of wastewater at each site (assuming a conservative 200 L per person) would range from 50 kL to 100 kL depending on the site and occupancy levels.

The annual volumes to be generated by all the construction activities apart from the combined worker accommodation facilities and construction compounds would be generally low. Wastewater would be collected in tanks or field portaloos – which would be pumped out by tanker. The tanker would dispose of the wastewater at local sewage treatment plants.

Wastewater generated at the combined worker accommodation facilities and construction compounds would require a connection into the town sewerage networks, where possible. However, in most instances, this would wastewater from these facilities would be collected in tanks which would be pumped out into a tanker. The tanker would dispose of any wastewater at local sewage treatment plants. Further consultation would be undertaken with councils to ensure there is sufficient capacity within the nearby wastewater treatment plants to meet the water disposal demand.

6.1.8 Summary of construction impacts

6.1.8.1 Erosion risk and sedimentation

The potential erosion risk and sedimentation impact for the amendments/refinements is generally consistent with the impacts described in Section 6.2.1 of *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential erosion risk and sedimentation, refer to Table 6.4 of *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. Table 6-12 provides information on the erosion and sedimentation impacts for the project amendments and refinements. The full analysis is presented in Attachment E, including the comparison to the analysis conducted in the EIS.

The sensitivity analysis for erosion risk and subsequent sedimentation has been reassessed for the amended project footprint and the results are summarised in Table 6-10 and Table 6-11.

Table 6-10 Sensitivity risk based on erosion category and proximity to waterways

| | Erosion risk category | | |
|------------------------------|-----------------------|------------------|----------------------|
| | Low | Moderate | High |
| Outside waterway buffer zone | Low sensitivity | Low sensitivity | Moderate sensitivity |
| Inside waterway buffer zone | Moderate sensitivity | High sensitivity | High sensitivity |

Table 6-11 Percentage of amended project footprint in sensitivity categories

| | Sensitivity category | | |
|------------------------------|----------------------|----------|------|
| | Low | Moderate | High |
| Outside waterway buffer zone | 47.8% | 14.6% | 1.7% |
| Inside waterway buffer zone | 26.1% | 9.0% | 0.7% |

Of the total amended project footprint area, an area comprising 35.8 per cent is within the buffer zone of a waterway, of which 26.1 per cent is considered to have moderate sensitivity due to its low erosion risk and 9.7 per cent is considered to have high sensitivity due to its moderate or high erosion risk.

Outside the waterways buffer zone 62.4 per cent of the amended project footprint is considered to have low sensitivity due to its low or moderate erosion risk and 1.7 per cent is considered to have moderate sensitivity due to its high erosion risk.

The erosion risk mapping in Figure 5-7 indicates the location of the erosion risk categories along and within the amended project footprint. An additional series of erosion risk maps with zoomed in callout boxes to highlight the locations with high erosion risk is provided in Attachment E. Generally, the higher erosion risk is related to steeper topography which includes the area in the south between Maragle and Woolgarlo and in the north around Bannaby.

The impact significance for each amended project component has been determined using the methodology described in Section 4.4 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS and is shown in Table 6-12. As noted previously, amended project components would have a range of impact significances depending on the location and individual locational characteristics. For example, an area of the transmission line easement adjacent to a waterway with high erosion risk soils would have a high impact significance – whereas an area of the transmission line easement on land away from a waterway with low erosion risk soils would have a low impact significance. Also, the sensitivity of the waterway would need to be considered. Perennial waterways containing KFH would generally have a higher potential impact significance compared to an ephemeral drainage line. Generally, waterways with a Strahler order 4 or higher are perennial and consequently work within these waterway buffer zones would have a potentially moderate or high impact significance.

The impact significance of a specific location would determine the approach to erosion and sedimentation control.

Table 6-12 Erosion risk and sedimentation impacts to surface water for the project amendments and refinements

| Amended project component and activities | Impact magnitude | Sensitivity | Impact significance without mitigation |
|---|---|---|---|
| Changes to construction ancillary facilities – involves vegetation removal | Vegetation removal would be required within the new transmission line easement, which would typically be 70 m wide. However, a few locations (such as transposition locations) may require easements up to 110 m wide and up to 130 m. In some locations, vegetation removal would be negligible (ie where the transmission line route is through cleared pasture land), whereas vegetation removal in other locations would be more substantial where the existing vegetation is tall and required to be cleared as per the requirements for vegetation management. The magnitude of the impact of vegetation removal to erosion risk would vary depending on the specific location, ranging from low to high. | Low to high based on a location's soil erosion risk – refer to Table 6-10 and Attachment E. | Ranges from low to high based on location - mapping provided in Figure 5-7, with further detail in Attachment E. |
| Construction of access tracks – involves vegetation removal and earthworks | New tracks and upgraded tracks would be required outside the transmission line easement to connect to existing roads and other access points. Construction of new tracks have the largest potential impact to waterways due to ground disturbance activities. Wherever possible, existing roads, tracks and other existing disturbed areas would be used to minimise vegetation clearing or disturbance. The construction of access tracks would have the similar location-based variation in the magnitude in risk as the transmission line easement. Areas of higher modelled erosion risks are likely to have higher magnitude of impacts but generally ranging from low to high. | Low to high based on a location's soil erosion risk – refer to Table 6-10 and Attachment E. | Ranges from low to high based on location - mapping provided in Figure 5-7, with further detail in Attachment E. |
| Construction of access tracks (waterfront land and waterway crossing) – involves vegetation removal and earthworks | New tracks and upgraded tracks would be required outside the transmission line easement to connect to existing roads and other access points. Several proposed access tracks have been identified as being located within waterfront land and a series of waterway crossings as presented in Table 6-5 and Attachment F. Construction of new tracks within waterfront land and waterway crossings would have the largest potential impact to waterways due to ground disturbance activities in proximity to waterways. The magnitude of erosion risk would vary depending on the specific location, from moderate to high. As discussed in Section 6.1.5, the potential impact significance for each nominated access track has been determined based on the type of track and its proximity to waterways. | Moderate to high based on proximity to waterways – refer to Attachment F. | Ranges from low to high based on proximity to waterway. Impact significance for each access track is presented in Attachment F. |

| Amended project component and activities | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|---|---|--|
| Construction of ancillary facilities including worker accommodation facilities and construction compounds – involves vegetation removal, earthworks and material storage | The 11 construction compounds proposed as part of the amended project vary in size (the exact area to be used at each construction compound would be confirmed by the construction contractor). There are also five combined worker accommodation facilities and construction compounds. Out of a total of 16 facilities, 11 of these locations are located within waterfront land. Two of the facilities are located within waterfront land of streams of Strahler order 3 or above. Due to their proximity to a higher order stream, there is a higher risk of sedimentation and therefore higher impact magnitude. Nine of the facilities are located within waterfront land of streams with Strahler Order 3 or lower and therefore moderate impact magnitude. Five of the locations are not located within waterfront land, as such they have low impact magnitude on sedimentation of the waterways. In addition, the smaller construction compounds (less than 4 ha) would have a moderate impact magnitude and the larger construction compounds (4 ha or greater) would have a high impact magnitude. | Low or high based on a location's proximity to waterways - refer to Table 6-4. | Ranges from low to high based on location, as follows: High: Ellerslie Road compound (C21) Yass accommodation facility and compound (AC05) Moderate: Maragle 500 kV substation compound (C06) Amended Gregadoo Road compound (C06) Yass substation compound (C10) Amended Bannaby 500 kV substation compound (C17) Amended Memorial Avenue compound (C14) Gadara Road compound (C19) Tarcutta accommodation facility and compound (AC03) Adjungbilly accommodation facility and compound (AC04) Crookwell accommodation facility and compound (AC06) Low: Amended Honeysuckle Road compound (C07) Ardrossan Headquarters Road compound (C17) Snubba Road compound (C18) Wagga 330 kV substation compound (C01) Green Hills accommodation facility and compound (AC07) |
| Additional telecommunications connection to existing Gullen Range 330 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | The areas identified for cabling have mostly already been cleared of vegetation due to being agricultural land. There are localised areas of vegetation that appear to be related to Ryans Creek a Strahler order 1 waterway. Earthworks have the potential to increase erosion risk and sedimentation of Ryans Creek. Therefore, the impact magnitude is moderate. | Moderate based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Moderate |

| Amended project component and activities | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|---|---|--|
| Additional telecommunications connection to existing Crookwell 2 330 kV substation – involves vegetation removal and earthworks | The areas identified for cabling have mostly already been cleared of vegetation due to being agricultural land, there is no identified vegetation either at this location. Earthworks have the potential to increase erosion risk and sedimentation, however there are no waterways identified in proximity, so the magnitude of impact is low. | Low based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Negligible |
| Additional telecommunications connection to existing Gadara 132 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | The areas identified for cabling have mostly already been cleared of vegetation due to being agricultural land, there are localised areas of vegetation that appear to be related to Ryans Creek a Strahler order 1 waterway. Earthworks have the potential to increase erosion risk and sedimentation of Ryans Creek. Therefore, the magnitude of impact is moderate. | Moderate based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Moderate |

6.1.8.2 Geomorphology

The potential geomorphology impacts for the amendments and refinements is generally consistent with the impacts described in Section 6.2.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential geomorphology impacts refer to Table 6.5 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS, and where amendments or refinements have occurred, additional information is provided in Table 6-13.

Table 6-13 Geomorphology risk impacts to surface water for the project amendments and refinements

| Construction activity | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|--|---|--|
| Construction of ancillary facilities including worker accommodation facilities and construction compounds (waterfront land) – involves vegetation removal and earthworks, material storage | Two of the ancillary facilities are located within waterfront land of Strahler order 5 streams, namely Ellerslie Road compound (C21) and Yass accommodation facility and compound (AC05). Due to their proximity to higher order streams and the risk of sedimentation, this may have an indirect geomorphological impact on Yaven Yaven Creek and Bango Creek respectively. Therefore, the magnitude of impact is moderate. | Moderate based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Moderate |
| Construction of access tracks (waterway crossing / waterfront land) – involves vegetation removal and earthworks | New tracks and upgraded tracks would be required outside the transmission line easement to connect to existing roads and other access points. New tracks have the largest potential impact to waterways due to ground disturbance activities and their proximity to waterways. Several proposed access tracks have been identified at being located within waterfront land and cross waterways as presented in Table 6-5 and Attachment F. As discussed in Section 6.1.5, the potential impact significance for each nominated access track has been determined based on the type of track and its proximity to waterways | Low to high based on a location's proximity to waterways – refer to Attachment F. | Ranges from moderate to high based on proximity to waterway. Impact significance for each access track is presented in Attachment F. |
| Additional telecommunications connection to existing Gullen Range 330 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | The areas identified for cabling have mostly already been cleared of vegetation due to being agricultural land, there are localised areas of vegetation that are related to Ryans Creek, a Strahler order 1 waterway. The cables would have to cross the waterway, and earthworks may be required to run cabling through the waterway. Therefore, the magnitude of impact is moderate. | Moderate based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Moderate |
| Additional telecommunications connection to existing Gadara 132 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | The areas identified for cabling have mostly already been cleared of vegetation due to being agricultural land, there are localised areas of vegetation that are related to Ryans Creek, a Strahler order 1 waterway. The cables would have to cross the waterways, and earthworks may be required to run cabling through the waterways. Therefore, the magnitude of impact is moderate. | Moderate based on proximity to waterways and soil erosion risk – refer to Table 6-10. | Moderate |

6.1.8.3 Water quality

The potential water quality impact for the amendments and refinements is generally consistent with the impacts described in Section 6.2.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential water quality impacts, refer to Table 6.6 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. Table 6-14 details the amended project components and activities resulting in water quality impacts.

Table 6-14 Water quality risk impacts to surface water for the project amendments and refinements

| Amended project component and activity | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|---|---|---|
| Construction of access tracks – involves vegetation removal and earthworks | Several proposed access tracks have been identified as being located within waterfront land and cross waterways as presented in Table 6-5 and Attachment F. As discussed in Section 6.1.5, the potential impact significance for each nominated access track has been determined based on the type of track and its proximity to waterways. | Low to high based on a location's proximity to waterways – refer to Attachment F. | Ranges from moderate to high based on proximity to waterway. Impact significance for each access track is presented in Attachment F. |
| Construction of access tracks (waterfront land and waterway crossing) – involves vegetation removal and earthworks | Several proposed access tracks have been identified at being located within waterfront land and cross waterways as presented in Table 6-5 and Attachment F. As discussed in Section 6.1.5, the potential impact significance for each nominated access track has been determined based on the type of track and its proximity to waterways. | Low to high based on a location's proximity to waterways – refer to Attachment F. | Ranges from moderate to high based on proximity to waterway. Impact significance for each access track is presented in Attachment F. |
| Construction of ancillary facilities including worker accommodation facilities and construction compounds – involves vegetation removal, earthworks and material storage | These ancillary facilities may include concrete batching plants and would involve the storage of chemicals, fuels, and material. Consequently, the magnitude of potential impacts is moderate. | Low to high based on proximity to waterways – Refer to Table 6-4. | Ranges from low to high based on location, as follows: High: Ellerslie Road compound (C21) Yass accommodation facility and compound (AC05) Moderate: Maragle 500 kV substation compound (C06) Amended Gregadoo Road compound (C06) Yass substation compound (C10) Amended Bannaby 500 kV substation compound (C17) Amended Memorial Avenue compound (C14) Gadara Road compound (C19) Tarcutta accommodation facility and compound (AC03) |

| Amended project component and activity | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|--|--|--|
| | | | Adjungbilly accommodation facility and compound (AC04) |
| | | | Crookwell accommodation facility and compound (AC06) |
| | | | Low: |
| | | | Amended Honeysuckle Road compound (CO7) |
| | | | Ardrossan Headquarters Road compound (C17) |
| | | | Snubba Road compound (C18) |
| | | | Wagga 330 kV substation compound (C01) |
| | | | Green Hills accommodation facility and compound (AC07) |
| Transmission lines and structures - involves vegetation clearing, earthworks, machinery/vehicle use and concreting | Given the large number of transmission line structures and that earthworks and concreting would be required at each structure, the magnitude of impact is moderate. | Low to moderate based on a location's proximity to a waterway | Moderate |
| Transmission line easements – involves vegetation clearing, land machinery/vehicle use | Any potential impacts are likely to be minor and localised. The water impacts associated with activities are also likely to be low in scale. The overall potential impact is low in magnitude. | Low to moderate based on a location's proximity to a waterway | Low |
| Additional telecommunications connection to existing Gullen Range 330 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | Due to the small size of the area required for the cabling and relatively minor work, the impact magnitude is low. | High | Moderate |
| Additional telecommunications connection to existing Crookwell 2 330 kV substation – involves vegetation removal and earthworks | No surface water bodies in proximity to the works, therefore, the magnitude of potential impacts is low. | Low | Negligible |

| Amended project component and activity | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|--|-------------|--|
| Additional telecommunications connection to existing Gadara 132 kV substation (waterfront land and waterway crossing) – involves vegetation removal and earthworks | Due to the small size of the area required for the cabling and relatively minor work, the impact magnitude is low. | High | Moderate |

6.1.8.4 Groundwater

Overall, the potential construction impacts on groundwater as described in Section 6.3 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS are still relevant to the amended project. The potential construction impacts on groundwater as a result of the amendments or refinements are presented in Table 6-15 below.

Table 6-15 Potential groundwater impacts during construction for the project amendments and refinements

| Amended project component and activity | Impact magnitude | Sensitivity | Impact significance without mitigation | |
|---|--|--|--|--|
| Identification of areas where controlled blasting may be required | Vibration from controlled blasting activities could potentially loosen silt/sand/rock particles and chemical precipitates lining fractures which can increase the turbidity of groundwater. In addition, the use of nitrates (ie ammonium nitrate) in controlled blasting operations could leach into groundwater and impact groundwater quality. Controlled blasting activities could also change existing shallow (ie less than 2 mbgl) groundwater flow pathways by generating new fractures in previously intact rock, dilating existing fractures and/or promote rock slip along existing joints/fracture surfaces. Potential controlled blasting impacts are expected to be highly localised, as literature suggests that the distance over which the near-field permanent damage to the rock slope in the form of breakage of intact rock and the formation of new fractures would be limited. For example, Hoek and Bray (1981), suggests that the onset of rock breakage to be within 20 m of the blast hole for a 100 kg charge weight. The magnitude of impact is moderate. | Low to high based on a location's proximity to groundwater users and/or GDEs | Low to high based on controlled blasting location – refer to Section 6.1.6.1. Low: blasting locations 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, and 21 High: blasting locations 4, 15, 17, and 20. | |
| Additional telecommunications connections to existing substations | Earthworks during construction of the additional telecommunications connections to existing substations, as described in Section 6.1.3, are expected to range between 0.8 to 3.0 mbgl. Therefore, the trenches have the potential to intercept groundwater and require temporary dewatering to provide a dry excavation for cable installation. Should shallow groundwater (ie less than 2 mbgl) be encountered, dewatering activities could have the potential to reduce groundwater availability for surrounding GDEs and groundwater users. No groundwater level data is available from registered bores within the vicinity of the proposed telecommunications connections (summarised in Section 5.5) for assessing the likelihood that dewatering would be required. Dewatering would be possible if groundwater levels are shallow (ie less than 2 mbgl). | Low to moderate based on a location's proximity to groundwater users and/or GDEs | Low | |

| Amended project component and activity | Impact magnitude | Sensitivity | Impact significance without mitigation |
|--|---|-------------|--|
| | As groundwater level information is not available, the following conservative scenario has been adopted to assess impact magnitude: | | |
| | Trenching for additional telecommunications connections to existing substations extends to a maximum depth of 3 mbgl and shallow groundwater is encountered at 2 mbgl. | | |
| | The trench is immediately adjacent to a high priority GDE and/or an existing water supply works/bore. | | |
| | The minimal impact consideration in the NSW AIP would be exceeded in this scenario (discussed further in Table 6-16, Table 6-17 and | | |
| | Table 6-18. However, it should be noted that excavation of the trenches for the additional telecommunications connections to existing substations are expected to be undertaken as a moving system aimed at minimising exposure time, progressing in daily stages (ie approximately 20m/day). Due to this, dewatering along sections of the telecommunications connections alignments would be short in duration and after cessation of dewatering as the excavation progresses, the water table is expected to recover to original levels rapidly resulting in no long-term impacts. | | |
| | Therefore, groundwater drawdowns associated with telecommunications connections construction dewatering would be temporary only and would not prevent the long-term viability of the potentially affected GDE or water supply work. | | |
| | The magnitude of impact is low. | | |
| Access to water sources | Groundwater impacts from purchasing and using existing groundwater allocations are expected to be negligible under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the NSW AIP during the application process. Any groundwater extraction must be carried out in compliance with the conditions stated in the existing WALs. The magnitude of impact is negligible. | Low | Low |

6.1.8.5 Aquifer Interference - Minimal impact considerations

The NSW AIP includes minimal impact considerations for assessing the impacts of all aquifer interference activities. NSW groundwater sources are categorised as being either highly productive or less productive. A groundwater source is considered highly productive based on both of the following criteria:

- a total dissolved concentration of less than 1,500 mg/L (approximately equivalent to EC of 960 μS/cm based on a general conversion factor of 0.64), and
- contains water supply works that can yield water at a rate greater than 5 L/s.
- If only one of the above criteria is met, the groundwater source would be considered as being less productive. This categorisation applies to a groundwater source as it is defined in a WSP. Previously, in the EIS, the categorisation was applied to each WSP (which generally encompasses numerous groundwater sources). To provide a greater level of detail for the amended project, the categorisation has been applied to each intersected groundwater source area in this report, as follows:
- Kyeamba Alluvial Groundwater Source highly productive. This groundwater source is considered as highly productive given the water quality is expected to be generally fresh, with an EC range of 195 1,160 μS/cm. Groundwater yields are expected to be high based on the number of registered bores with relatively high licenced extraction volumes present within this groundwater source. Alluvial groundwater sources are typically highly connected to surface water sources.
- Gundagai Alluvial Groundwater Source highly productive. This groundwater source is considered as highly productive given the water quality is expected to be generally fresh, with an EC range of 195 2,570 µS/cm. Groundwater yields are expected to be high based on the number of registered bores with relatively high licenced extraction volumes present within this groundwater source. Alluvial groundwater sources are typically highly connected to surface water sources.
- Lachlan Fold Belt MDB Groundwater Source less productive. These groundwater sources are categorised as less productive as the bore yields are generally low, supplying less than 3 L/s. The water table in the Lachlan Fold Belt is typically deep and not linked to surface water flow.
- Lachlan Fold Belt Greater Metropolitan Groundwater Source less productive. These groundwater sources are categorised as less productive as the bore yields are generally low, supplying less than 3 L/s.
 The water table in the Lachlan Fold Belt is typically deep and not linked to surface water flow.
- Yass Catchment Fractured Rock Groundwater Sources highly productive. As there is limited information on the total dissolved solids and groundwater yield, a conservative approach has been applied and this groundwater source is classified as a highly productive fractured rock water source.

An assessment against the AIP minimal impacts considerations is shown in Table 6-16, Table 6-17 and Table 6-18. The assessment includes consideration of the project amendments and refinements not previously considered in the EIS, including:

- additional assessment on the potential usage of groundwater as a non-potable water supply source during construction
- temporary dewatering potentially required during construction of the additional telecommunications connections to existing substations
- controlled blasting undertaken in areas of shallow hard rock.

Table 6-16 Aquifer Interference Policy Minimal impact considerations for 'highly productive alluvial groundwater sources' – Kyeamba and Gundagai Alluvial Groundwater Sources

| Feature | Minimal impacts considerations (NSW Government, 2012) | Response | | |
|-------------------|---|---|--|--|
| Water table | Less than or equal to a 10% cumulative variation in the water table, allowing for typical climatic "post-water sharing plan" (1) variations, 40 metres from any: | Groundwater impacts from purchasing and using existing groundwater allocations are expected to be insignificant under the assumption that the | | |
| | high priority groundwater dependent ecosystem | existing WALs and licensed extraction volumes have already been evaluated | | |
| | high priority culturally significant site⁽²⁾ | and deemed to be acceptable against the NSW AIP during the application process. | | |
| | A maximum of a two metre decline cumulatively at any water supply work. | Temporary dewatering during construction of the additional | | |
| | If more than 10% cumulative variation in the water table, allowing for typical climatic "post-water sharing plan" variations, 40 metres from any: | telecommunications connections to existing substations could potentially exceed the minimal impact considerations under a "worst-case" scenario. However, as discussed in Table 6-15, the induced drawdowns would be | | |
| | high priority groundwater dependent ecosystem | | | |
| | high priority culturally significant site | temporary only and would not prevent the long-term viability of the potentially affected GDE or water supply work. | | |
| | listed in the schedule of the relevant WSP then appropriate studies ⁽³⁾ would need to demonstrate to the Minister's ⁽⁴⁾ satisfaction that the variation would not prevent the long-term viability of the dependent ecosystem or significant site. | | | |
| | If more than two metre decline cumulatively at any water supply work, then make good provisions should apply. | | | |
| Water pressure | A cumulative pressure head decline of not more than 40% of the post-water sharing plan pressure head above the base of the water source to a maximum of a two-metre decline, at any water supply work. | Pressure heads are not anticipated to be lowered (or raised) due to the expected depth of the confined aquifers in the surface water and groundwate study area and selection of appropriate construction methodologies. | | |
| | If the predicted pressure head decline is greater than the water pressure requirement above, then appropriate studies are required to demonstrate to the Minister's satisfaction that the decline would not prevent the long-term viability of the affected water supply work unless make good provisions apply. | Groundwater impacts from purchasing and using existing groundwater allocations are expected to be insignificant under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the NSW AIP during the application process. | | |
| Water quality | (a) Any change in the groundwater quality should not lower the beneficial use category of the groundwater source beyond 40 metres from the activity; and | The amended project is not anticipated to result in: | | |
| | (b) No increase of more than 1% per activity in long-term average salinity in a highly | a change in groundwater quality which would lower the beneficial use category increase of more than 1% per activity in long-term average salinity in connected surface water sources. | | |
| | connected surface water source at the nearest point to the activity. Redesign of a highly connected surface water source that is defined as a "reliable water supply" is not an | | | |
| | appropriate mitigation measure to meet considerations (a) and (b) above. | The amended project does not include mining activities. | | |
| | (c) No mining activity to be below the natural ground surface within 200 metres laterally from the top of high bank or 100 metres vertically beneath (or the three-dimensional extent of the alluvial water source - whichever is the lesser distance) of a highly connected surface water source that is defined as a "reliable water supply". | | | |
| | (d) Not more than 10% cumulatively of the three-dimensional extent of the alluvial material in this water source to be excavated by mining activities beyond 200 metres laterally from the top of high bank and 100 metres vertically beneath a highly connected surface water source that is defined as a "reliable water supply". | | | |

Feature

Minimal impacts considerations (NSW Government, 2012)

Response

If condition (a) above is not met then appropriate studies will need to demonstrate to the Minister's satisfaction that the change in groundwater quality will not prevent the long-term viability of the dependent ecosystem, significant site or affected water supply work.

If condition (b) or (d) above are not met, then appropriate studies are required to demonstrate to the Minister's satisfaction that the River Condition Index category of the highly connected surface water source will not be reduced at the nearest point to the activity.

If (c) or (d) above are not met, then appropriate studies are required to demonstrate to the Minister's satisfaction that: there will be negligible riverbank or high wall instability risks:

- during the activity's operation and post-closure, levee banks and landform design should prevent the Probable Maximum Flood from entering the activity's site; and
- low-permeability barriers between the site and the highly connected surface water source will be appropriately designed, installed, and maintained to ensure their long-term effectiveness at minimising interaction between saline groundwater and the highly connected surface water supply.

Notes:

- (1) Post water sharing plan" refers to the period after the commencement of the first water sharing plan in the water source, including the highest pressure head (allowing for typical climatic variation) within the first year after the commencement of the first water sharing plan.
- (2) Culturally significant sites as identified on the Aboriginal Heritage Information Management System (NSW Office of Environment and Heritage, n.d.)
- (3) Appropriate studies" are to include an identification of the extent and location of the asset, the predicted range of water table changes at the asset due to the activity, the groundwater interaction processes that affect the asset, the reliance of the asset on groundwater, the condition and resilience of the asset in relation to water table changes and the long-term state of the asset due to these changes;
- (4) NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW)

Table 6-17 Aquifer Interference Policy Minimal impact considerations for a 'highly productive fractured rock aquifer' – Yass Catchment Fractured Rock Groundwater Sources

| Feature | Minimal impacts considerations (NSW Government, 2012) | Response |
|-------------------|--|--|
| Water table | Less than or equal to 10% cumulative variation in the water table, allowing for typical climatic "post water sharing plan" (1) variations, 40 metres from any: high priority groundwater dependent ecosystem high priority culturally significant site(2) listing in the schedule of the relevant WSP. A maximum of a two-metre decline cumulatively at any water supply work unless make good provisions should apply. If more than 10% cumulative variation in the water table, allowing for typical climatic "post water sharing plan" variations, 40 metres from any: high priority groundwater dependent ecosystem high priority culturally significant site listing in the schedule of the relevant WSP then appropriate studies ⁽³⁾ will need to demonstrate to the Minister's ⁽⁴⁾ satisfaction that the variation will prevent the long-term viability of the dependent ecosystem or significant site if more than a two-metre decline cumulatively at any water supply work, then make good provisions should apply. | Groundwater impacts from purchasing and using existing groundwater allocations are expected to be insignificant under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the NSW AIP during the application process. Temporary dewatering during construction of the additional telecommunications connections to existing substations could potentially exceed the minimal impact consideration under a "worst-case" scenario. However, as discussed in Table 6-15, the induced drawdowns would be temporary only and would not prevent the long-term viability of the potentially affected GDE or water supply work. |
| Water pressure | A cumulative pressure head decline of not more than a 2 m decline, at any water supply work. If the predicted pressure head decline is greater than the requirement above, then appropriate studies are required to demonstrate to the Minister's satisfaction that the decline will not prevent the long-term viability of the affected water supply work unless make good provisions apply. | Pressure heads are not anticipated to be lowered (or raised) due to the expected depth of the confined aquifers in the surface water and groundwate study area and selection of appropriate construction methodologies. Groundwater impacts from purchasing and using existing groundwater allocations are expected to be insignificant under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the NSW AIP during the application process. |
| Water quality | Any change in the groundwater quality should not lower the beneficial use category of the groundwater source beyond 40 m from the activity. If the condition above is not met then appropriate studies will need to demonstrate to the Minister's satisfaction that the change in groundwater quality will not prevent the long-term viability of the dependent ecosystem, significant site or affected water supply works. | The amended project is not anticipated to result in: a change in groundwater quality which would lower the beneficial use category increase of more than 1% per activity in long-term average salinity in connected surface water sources. The amended project does not include mining activities. |

Notes:

- (1) Post water sharing plan" refers to the period after the commencement of the first water sharing plan in the water source, including the highest pressure head (allowing for typical climatic variation) within the first year after the commencement of the first water sharing plan.
- (2) Culturally significant sites as identified on the Aboriginal Heritage Information Management System (NSW Office of Environment and Heritage, n.d.).
- (3) Appropriate studies" are to include an identification of the extent and location of the asset, the predicted range of water table changes at the asset due to the activity, the groundwater interaction processes that affect the asset, the reliance of the asset on groundwater, the condition and resilience of the asset in relation to water table changes and the long-term state of the asset due to these changes.
- (4) NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW).

Table 6-18 Aquifer Interference Policy Minimal impact considerations for a 'less productive fractured rock aquifer' – Lachlan Fold Belt Groundwater Sources

| Feature | Minimal impacts considerations (NSW Government, 2012) | Response |
|-------------------|--|---|
| Water table | Less than or equal to 10% cumulative variation in the water table, allowing for typical climatic "post water sharing plan" (1) variations, 40 metres from any: high priority groundwater dependent ecosystem high priority culturally significant site(2) listing in the schedule of the relevant WSP. A maximum of a two-metre decline cumulatively at any water supply work unless make good provisions should apply. If more than 10% cumulative variation in the water table, allowing for typical climatic "post-water sharing plan" variations, 40 metres from any: high priority groundwater dependent ecosystem high priority culturally significant site listing in the schedule of the relevant WSP then appropriate studies ⁽³⁾ will need to demonstrate to the Minister's ⁽⁴⁾ satisfaction that the variation will prevent the long-term viability of the dependent ecosystem or significant site if more than a two-metre decline cumulatively at any water supply work, then make good provisions should apply. | Groundwater impacts from purchasing and using existing groundwater allocations are expected to be insignificant under the assumption that the existing WALs and licensed extraction volumes have already been evaluated and deemed to be acceptable against the NSW AIP during the application process. Temporary dewatering during construction of the additional telecommunications connections to existing substations could potentially exceed the minimal impact considerations under a "worst-case" scenario. However, as discussed in Table 6-15, the induced drawdowns would be temporary only and would not prevent the long-term viability of the potentially affected GDE or water supply work. |
| Water pressure | A cumulative pressure head decline of not more than 40% of the "post-water sharing plan" pressure head above the base of the water source to a maximum of a two metres decline, at any water supply work. If the predicted pressure head decline is greater than requirement above, then appropriate studies are required to demonstrate to the Minister's satisfaction that the decline will not prevent the long-term viability of the affected water supply work unless make good provisions apply. | There is generally low risk of the amended project causing a cumulative pressure head decline of two metres at any supply work as groundwater take is not anticipated for the construction or operation of the amended project. Subject to the appropriate mitigation measures identified in Section 7, controlled blasting undertaken in areas of shallow hard rock, is not expected to result in a cumulative pressure head decline of two metres at any supply work. |
| Water quality | Any change in the groundwater quality should not lower the beneficial use category of the groundwater source beyond 40 m from the activity. If the above condition is not met then appropriate studies will need to demonstrate to the Minister's satisfaction that the change in groundwater quality will not prevent the long-term viability of the dependent ecosystem, significant site or affected water supply work. | The amended project is not anticipated to result in: a change in groundwater quality which would lower the beneficial use category increase of more than 1% per activity in long-term average salinity in connected surface water sources. |

Notes:

- (1) Post water sharing plan" refers to the period after the commencement of the first water sharing plan in the water source, including the highest pressure head (allowing for typical climatic variation) within the first year after the commencement of the first water sharing plan.
- (2) Culturally significant sites as identified on the Aboriginal Heritage Information Management System (NSW Office of Environment and Heritage, n.d.)
- (3) Appropriate studies" are to include an identification of the extent and location of the asset, the predicted range of water table changes at the asset due to the activity, the groundwater interaction processes that affect the asset, the reliance of the asset on groundwater, the condition and resilience of the asset in relation to water table changes and the long-term state of the asset due to these changes;
- (4) NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW)

6.1.8.6 Impacts on specific waterways identified in the SEARs

There are no material changes in impact to the specified waterways compared to the EIS project. The EIS Planning Secretary's Environmental Assessment Requirements (SEARs) for the project identify major waterways that are potentially impacted by the amended project. These are presented and assessed in Table 6-19 as per the project amendments and refinements. The waterways are shown in Figure 5-3.

Table 6-19 Potential impacts to major waterways

| Waterway | Distance to amended project footprint | Assessment |
|-------------------------|---|--|
| Goobarragandra River | 6.6 kilometres | The amended project footprint is located about 6.6 kilometres downstream of the Goobarragandra River. Therefore, no impacts are anticipated to the river from the amended project. |
| Lachlan River | Crosses river | The transmission line corridor crosses the waterway near Dalton. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |
| Murrumbidgee River | Crosses river | The transmission line corridor crosses the waterway near Bookham. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |
| Tarlo River | Crosses river | The transmission line corridor crosses the waterway near Bannaby. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |
| Tumut River | Crosses river | The transmission line corridor crosses the waterway near Batlow. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |
| Wollondilly River | Crosses river | The transmission line corridor crosses the waterway near Bannister. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |
| Yass River | Crosses river | The transmission line corridor crosses the waterway near Yass. Construction activities (described in Section 2.2 of the <i>Technical Report 12 – Surface Water and Groundwater Impact Assessment</i> prepared for the EIS) within 200 m of the waterway would be considered high risk and require the preparation and implementation of site-specific ESCPs. The area impacted by any work would be relatively small in comparison to river catchment and with implementation of mitigation measures, the overall impacts are expected to be minor. |

| Waterway | Distance to amended project footprint | Assessment |
|----------------|---|--|
| Blowering Dam | 1.3 kilometres | The transmission line corridor would traverse the upper catchment of Blowering Dam – about 19.55 kilometres upstream of the dam itself. Given the relatively small area of transmission corridor within the catchment and the distance upstream of the dam, there are unlikely to be any impacts on Blowering Dam. |
| Burrinjuck Dam | 1.3 kilometres | A small section of transmission line corridor is within the dam catchment (about 11.5 kilometres from the dam), however does not cross the dam itself. The amended project moves most of the transmission line corridor further away from the dam or outside the dam's catchment. There is increased sedimentation and erosion risk associated with construction. However, given the small area of land impacted and mitigation measure that would be implemented, the risk of impacts remain low. |
| Wyangala Dam | 69 kilometres | The transmission line corridor would traverse the upper catchment of Wyangala Dam – about 69 kilometres upstream of the dam itself. Given the relatively small area of transmission line corridor within the catchment and the distance upstream of the dam, there are unlikely to be any impacts on Wyangala Dam. |

Overall, the potential impacts and risks of the amended project to surface water and groundwater have increased compared to potential impacts and risks identified for the EIS project. This is due to a more detailed understanding of amended project design, along with the project amendments and refinements, which includes:

- changes to the transmission line corridor
- an increase in the number and size of construction compounds and combined worker accommodation facilities and construction compounds
- inclusion of additional infrastructure in the assessment such as nominated access tracks, and additional telecommunications connections to existing substations. Some of this infrastructure is located within waterfront land (ie within 40m of a waterway) and/or crosses waterways
- an increase in potable water requirements
- inclusion of potential controlled blasting locations for transmission line structures construction.

For potential water quality, erosion and sedimentation and geomorphology impacts on surface water, the increase in potential impacts would require the development and implementation of more site specific Erosion and Sediment Control Plans (ESCPs) and Soil and Water Management Plan (SWMPs) to mitigate any impacts.

The increase in potable water requirements would require further consultation with councils to ensure that supplies are adequate to meet demands.

The changes to the transmission line route do not result in any overall change in potential impact significance but may have minor localised impacts in some areas.

Overall, with the implementation of the proposed mitigation measures (discussed in Chapter 7), the amended project is expected to have minimal additional impacts, compared to impacts identified in the EIS, on existing surface water and groundwater resources during construction.

6.2 Operational impacts

6.2.1 Erosion risk and sedimentation impacts

The amended project involves changes to the transmission line corridor in some locations (including the Green Hills corridor amendment) as well as nomination of additional access tracks/waterway crossings that may be retained during operation for maintenance activities. This may have resulted in slight changes to the location of erosion risk and sedimentation during operation, however overall the potential operational erosion risk and sedimentation impacts of the amended project are generally consistent with the impacts described in Section 7.1.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential erosion risk and sedimentation impacts refer to Table 7.1 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

6.2.2 Geomorphology

The amended project involves nomination of additional access tracks/waterway crossings that may be retained during operation for maintenance activities. This may have resulted in slight changes to the location of geomorphology risks during operation, however overall the potential operational geomorphological impacts of the amended project are generally consistent with the impacts described in Section 7.1.2 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential geomorphological impacts refer to Table 7.2 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

6.2.3 Water quality

The amended project also involves changes to the transmission line corridor in some locations (including the Green Hills corridor amendment) as well as nomination of additional access tracks/waterway crossings that may be retained during operation for maintenance activities. For these aspects, the potential operational water quality impacts of the amended project are generally consistent with the impacts described in Section 7.1.3 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of water quality and sedimentation impacts refer to Table 7.3 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

The amended project removes potential water quality risks from the telecommunications hut as this is no longer proposed in the amended project.

The proposed amendments to the Gugaa 500 kV substation layout (including the split bench arrangement proposed in the amended project) and equipment is unlikely to result in any changes to water quality risks that were assessed in the EIS due to the location of the substation and the proposed construction activities remain unchanged.

6.2.4 Operational water supply

The potential operational water supply impacts of the amended project are generally consistent with the impacts described in Section 7.1.4 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of water supply impacts refer to Table 7.4 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. None of the amendments or refinements have the potential to change the impacts to water supply during operation as the operational water requirements would be consistent with the EIS project.

6.2.5 Wastewater disposal

The potential operational wastewater disposal impacts of the amended project are generally consistent with the impacts described in Section 7.1.5 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential wastewater disposal impacts refer to Table 7.5 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. None of the amendments or refinements have the potential to change the impacts relating to wastewater operational requirements as operational wastewater management would be consistent with the EIS project.

6.2.6 Groundwater

The amended project involves changes to the transmission line corridor in some locations (including the Green Hills corridor amendment) and has marginally increased the maximum expected transmission line structure piling depth to up to 28 metres below ground level. The substation bench layout at the proposed Gugaa 500 kV substation and nominated access track locations have also been amended. However, these changes are considered minor and therefore the potential operational groundwater impacts of the amended project are generally consistent with the impacts described in Section 7.1.6 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. For a summary of potential operational groundwater impacts refer to Table 7.6, Table 7.7 and Table 7.8 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS.

6.3 Cumulative impacts

Since the public exhibition of the EIS, an updated cumulative impact search has been undertaken. This updated search has identified the following two proposed projects that had not been considered in Chapter 25 (Cumulative impacts) of the EIS:

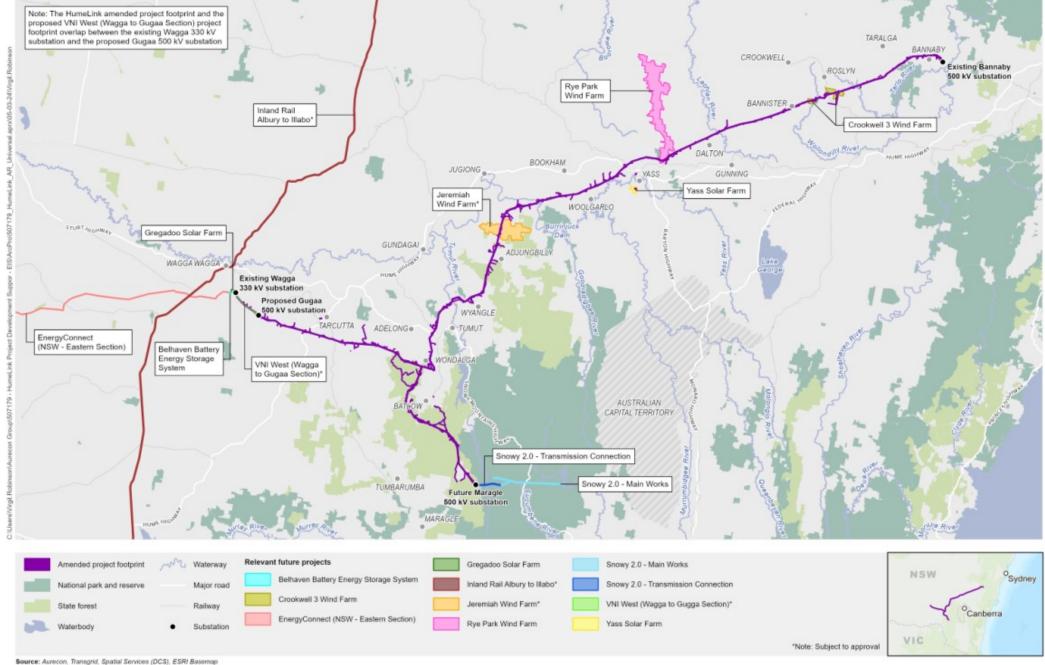
- Belhaven Battery Energy Storage System
- Yass Solar Farm.

Table 6-20 presents the cumulative impacts of the amended project for these two newly identified proposed projects.

The location of projects for which cumulative impacts were considered relative to the amended project are shown in Figure 6-3.

Table 6-20 Summary of cumulative impacts identified

| Project | Details | Status | Distance and Interface | Cumulative Impacts |
|--|---|---|---|--|
| Belhaven Battery | | | The Belhaven Battery Energy Storage System Scoping Report (Ramboll, 2023) outlines potential impacts to surface and groundwater. | |
| Storage Battery Energy System Storage System | MW / 800 MWh | SEARs | connection from BESS to the substation (most likely underground) is proposed. Based on publicly available information there are likely to be overlapping construction programs. | Potential water quality impacts include: |
| | | | | increased flow volumes and mobilising soils into waterways |
| | including | issued on | | increased localised flooding due to change in overland flow paths |
| | transmission | 18/05/2023 | | intercepting groundwater and impacts to quality, quantity and recharge. |
| | connection and associated | | | Potential mitigation measures include: |
| | infrastructure. | | | avoiding works withing 40 metres of watercourse |
| | | | | installing sediment and erosion controls |
| | | | | minimising depth of excavations. |
| | | | | Therefore, with proposed mitigation measures no expected cumulative impacts are expected. |
| a 100 MW solar | operation and decommissioning of a 100 MW solar photovoltaic energy generating facility | EIS being prepared | on publicly available information, there are likely to be overlapping construction programs. However, given the proximity and likely impacts, cumulative impacts are likely limited to the establishment and use of HumeLink's combined worker accommodation facility and construction compound proposed at Yass during construction | The Yass Solar Farm Scoping Report (Ramboll, 2023) provides a summary of potential impacts to surface water and groundwater. |
| | | | | The potential water impacts include: |
| | | sciated SEARs issued on 22/12/2023 ergy | | increase in impervious areas, reducing site drainage potential |
| | | | | mobilising sediments into nearby waterways, impacting water quality |
| | | | | chemical spills (including hydrocarbons and concrete), impacting water quality |
| | , ,, | | | intercepting groundwater, impacting on quality, quantity and/or recharge |
| | Storage System | | | Potential mitigation measures include: |
| | | | | avoiding works withing 40 metres of watercourse |
| | | | | spill protection |
| | | | | installing sediment and erosion controls |
| | | | | minimising depth of excavations. |
| | | | | Therefore, with the proposed mitigation measures no cumulative impacts are expected. |



ource: Aurecon, Transgna, spallal Services (DCS), ESPA Basemap

HumeLink Surface Water and Groundwater

0

1:925,000 0 20 40km

7 Management of impacts

The management of impacts are described in Section 11 of the *Technical Report 12 – Surface Water and Groundwater Impact Assessment* prepared for the EIS. These processes and mitigation measures are still relevant to the amended project and are presented below.

7.1 Overview of approach

7.1.1 Construction

A SWMP would be prepared and implemented as part of the Construction Environmental Management Plan (CEMP). The SWMP would identify all reasonably foreseeable risks relating to soil erosion, water pollution and any potential dewatering during construction and describe how these risks would be managed. The SWMP would contain appropriate measures (as a minimum) to:

- minimise the extent of ground disturbance
- divert surface water runoff around construction locations
- install erosion controls within construction locations
- collect and filter sediment from surface water runoff within construction locations
- store/stockpile materials away from receiving waters and overland flow paths
- manage stockpiles to minimise erosion and sediment transport
- manage saline and acid sulfate soils (if present)
- minimise the potential of soil and water quality impacts during storage of project wastes and potentially polluting substances
- minimise the duration of soil exposure and progressively rehabilitate and stabilised disturbed areas
- manage unexpected finds of contaminated materials
- manage dewatering processes to ensure appropriate handling, storage, transport, disposal and monitoring of dewatering/discharge volumes and quality
- manage dewatering in line with the minimal impact criteria listed within the NSW AIP, relevant WSPs and licencing requirements where relevant
- manage spills to reduce and address soil and water contamination.

Site-specific SWMPs would also be prepared where amended project components may have greater impacts than just erosion and sedimentation. Site specific SWMPs may be developed, where relevant, for:

- substation sites
- construction compounds
- combined worker accommodation facilities and construction compounds.

SWMPs would include ESCPs to detail erosion and sediment controls to be implemented at specific sites and for specific construction activities and would include rehabilitation and/or restoration requirements. SWMPs and ESCPs would be prepared in accordance with *Managing Urban Stormwater – Soils and Construction, Volume 1* (Landcom, 2004) as well as other relevant guidelines. ESCPs would include both site-specific and activity-based ESCPs depending on the erosion risk. Construction in low erosion risk areas would generally use activity-based ESCPs whereas construction in a high erosion risk area would require a site-specific ESCP (ie waterway crossings of higher order streams). In areas where there is a moderate risk of erosion and sedimentation impacts, further assessment would be required to determine whether a site specific or activity-based ESCPs would be used.

In addition, SWMPs would include water quality monitoring requirements, detailing routine water quality monitoring and other monitoring to be undertaken during certain construction activities (ie Construction of major project elements adjacent to waterways) to detect any potential water quality impacts. The water quality monitoring objectives and guideline values would be specific to the major catchments and consider relevant legislation and include surface water and groundwater monitoring depending on the construction activity.

An Emergency Spill Procedure would be developed to manage spill events during construction as part of the CEMP. The procedure would include spill emergency response measures. Refer to *Technical Report 10 – Phase 1 Contamination Assessment* prepared for the EIS and *Technical Report 10 – Phase 1 Contamination Assessment Addendum* for management of contamination impacts.

Water supply options and management would be undertaken in accordance with agreements between the construction contractor and relevant existing license holders or water suppliers.

7.1.2 Operation

Operational impacts would be further considered and mitigated during detailed design for the following infrastructure:

- substations
- permanent access tracks
- permanent waterway crossings
- transmission line structures.

Relevant guidelines, legislation and standards would be considered during this process.

In addition, Transgrid has operational procedures and management plans to manage and mitigate environmental impacts and risks from the ongoing management and maintenance of its assets and these would be implemented during operation.

7.2 Summary of mitigation measures

Table 7-1 provides a summary of any additional or revised mitigation measures that would be implemented for the amended project. Any new or revised mitigation measures are marked in **bold** and any mitigation measures that are no longer relevant are struck out. Environmental management measures identified in the EIS that are relevant to the amended project that remain unchanged, have been omitted, but will still be captured in the revised environmental management measures for the amended project as a whole.

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Table 7-1 Revised and new mitigation measures

| Impact | Mitigation measures | Timing | Relevant location |
|--|---|----------------------------------|-------------------------------------|
| SW2 Water quality and geomorphology | Design-Consideration of scour protection will be included in any infrastructure that is within a waterway channel. The design will incorporate features that minimise impact on flow conditions and natural functioning of the waterway, where possible feasible and reasonable. | | Waterways |
| | For work within or near waterways consider and adhere to the following guidelines: | | |
| | Guidelines for controlled activities (Riparian corridors and Watercourse crossings) (DPI, 2012) | | |
| | Guidelines for Controlled Activity - In-stream works (Department of Planning and Environment,) | | |
| | Guidelines for Controlled Activity - Watercourse crossings (Department of Planning and Environment,) | | |
| | Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (DPI, 2003) | | |
| | Policy and Guidelines for Fish Habitat Conservation and Management (Update 2013) (DPI, 2013). | | |
| SW4 Water supply | Water supply options and management will be undertaken in accordance with agreements between the construction contractors, relevant landowners, and relevant water users and suppliers. | Detailed design and construction | All locations |
| | Groundwater and surface water allocations purchased from existing registered bores/users must be extracted in accordance with the conditions stated in the associated Water Access Licence(s) (WAL(s)) and Water Supply Works approval(s). | | |
| SW5 Groundwater flow paths, levels and users | Alternative construction methodologies will be investigated and implemented as required to minimise impacts to groundwater dependent ecosystems (GDEs) and registered groundwater bores, if identified to be directly impacted during detailed design. Make good provisions will need to be made to the groundwater user(s) for bores that will be affected in line with the minimal impact criteria listed within the NSW Aquifer Interference Policy. | Detailed design and construction | All locations |
| | Where groundwater dewatering is required, the following will be conducted: | | |
| | dewatering assessment (including dewatering volume estimates) | | |
| | dewatering procedures will be included in the Soil and Water Management Plan (SWMP) in line with the minimal impact criteria listed within the NSW Aquifer Interference Policy, relevant water sharing plans (WSPs) and licencing requirements where relevant | | |
| | Water Supply Works Approval (where needed) | | |
| | Water Access Licence (WAL) (if dewatering volumes exceed 3ML/year). | | |
| SW6 Surface water and groundwater | Where controlled blasting is required, a suitably qualified blasting specialist will be engaged to carry out a detailed blasting assessment and trial blasts (if required) to determine blasting design and site-specific parameters. | Detailed design and construction | Controlled blasting locations |
| | The blasting assessment should identify measures to limit vibrations to the recommended "safe" levels (defined in AS 2187.2-2006 Explosives - Storage and use), limit rock mass damage, avoid "over-blasting" and consider potential impacts to: | | |
| | groundwater dependant ecosystems | | |
| | groundwater users | | |
| | surface water bodies. | | |

8 Conclusion

Overall, the potential impacts and risks of the amended project to surface water and groundwater have increased compared to potential impacts and risks identified for the EIS project due a more detailed understanding of project design along with amendments and refinements, which include:

- changes to the transmission line corridor
- increased number and size of combined worker accommodation facilities and construction compounds
- inclusion of additional infrastructure in the assessment such as access tracks, additional telecommunications connections, some of which are located within waterfront land (ie within 40 metres of a waterway) and/or cross waterways
- increased potable water requirements (non-potable water demand has decreased from the EIS (498 ML to 429 ML); and potable water has increased (66 ML to 286 ML))
- inclusion of controlled blasting for some construction activities where hard rock has been identified.

The increase in potable water requirements would require further consultation with councils to ensure that the supplies are adequate to meet demands, noting that the overall volume is minor in comparison to available supplies.

The changes to the transmission line route does not result in any overall change in potential impact significance but may have minor localised impacts in some areas.

Overall, with the implementation of the proposed mitigation measures, the amended project is expected to have minimal additional impacts on existing surface water and groundwater resources, compared to the EIS project, during construction and operation.

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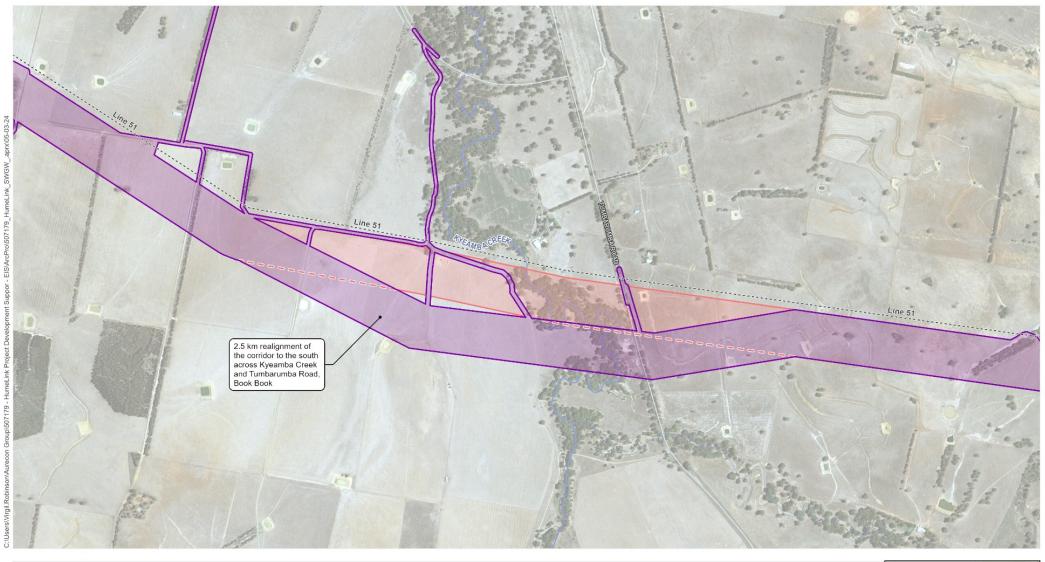
Attachment A Amended sections of the project



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Amended project footprint

EIS project footprint

Existing Transgrid transmission line

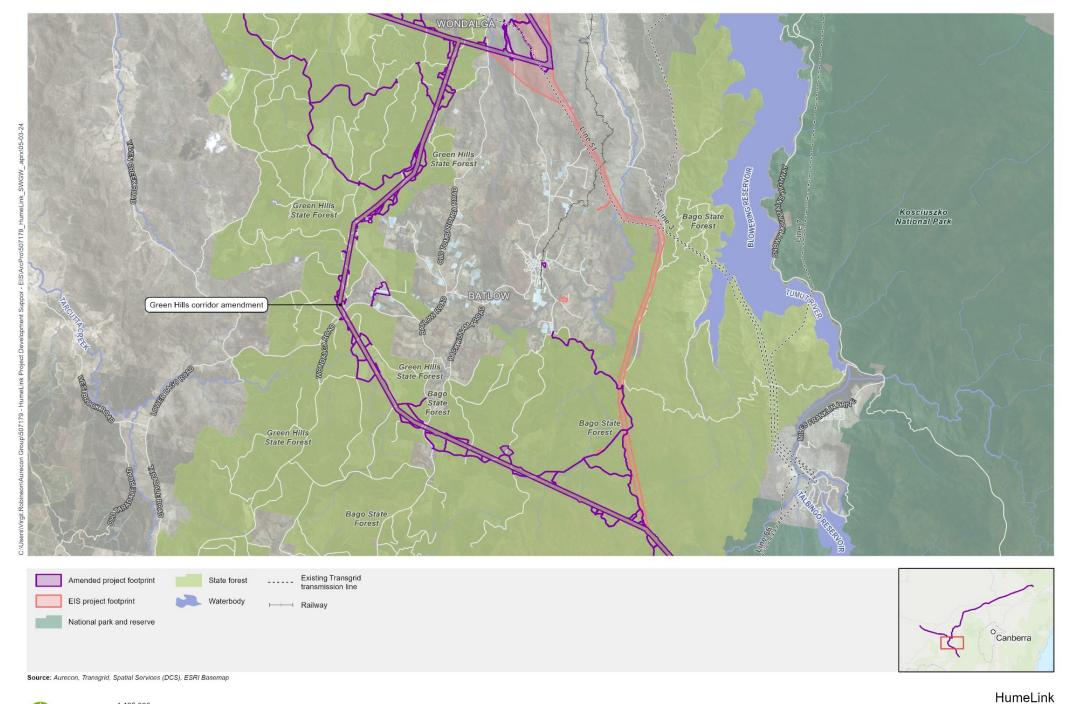
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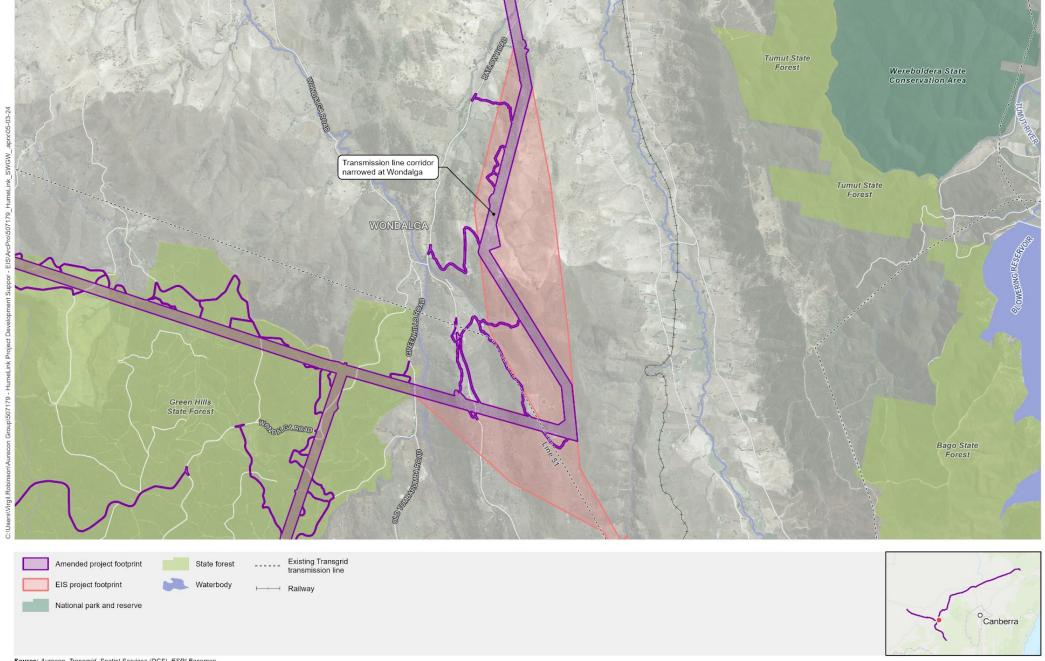
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Projection: GDA 1994 MGA Zone 55

Attachment A: Amended sections of the project Page 2 of 23

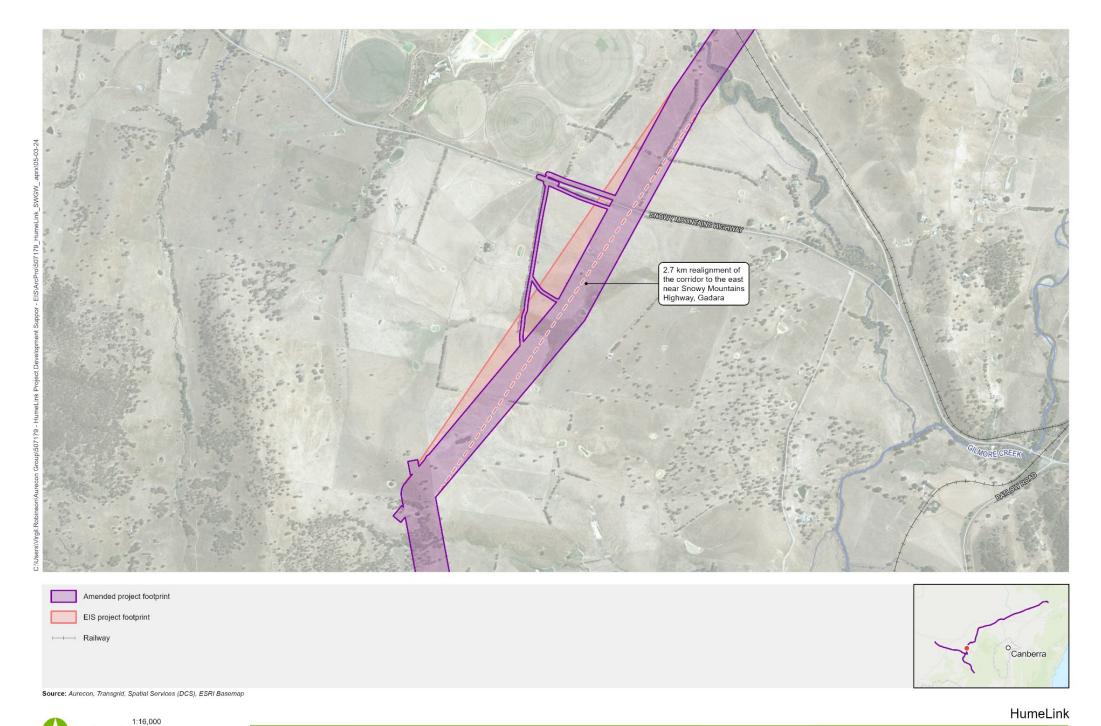


Attachment A: Amended sections of the project Page 3 of 23



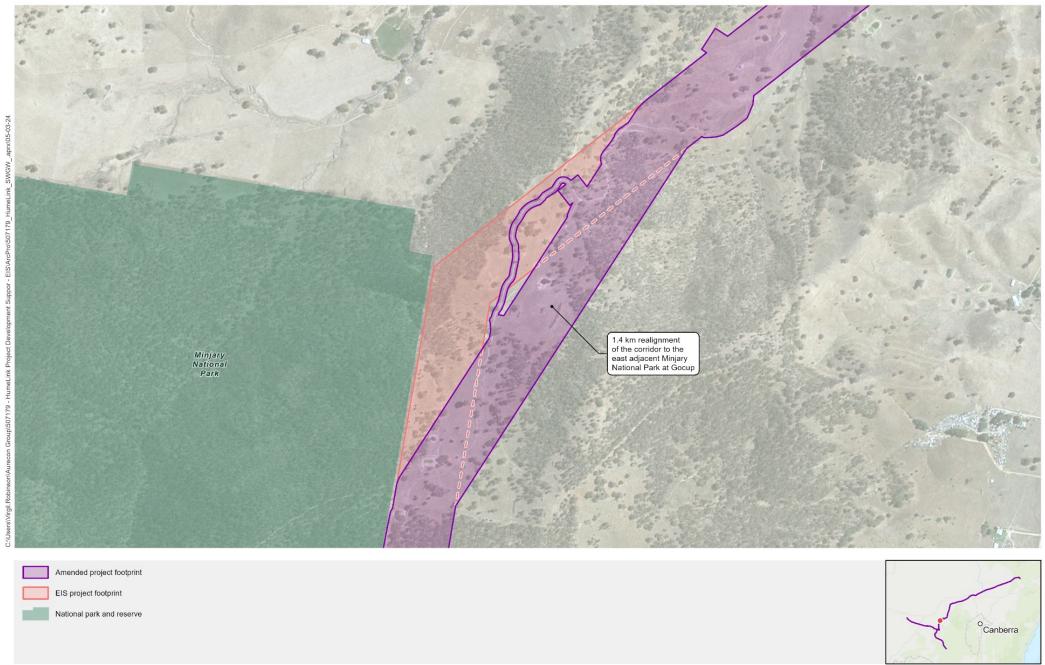
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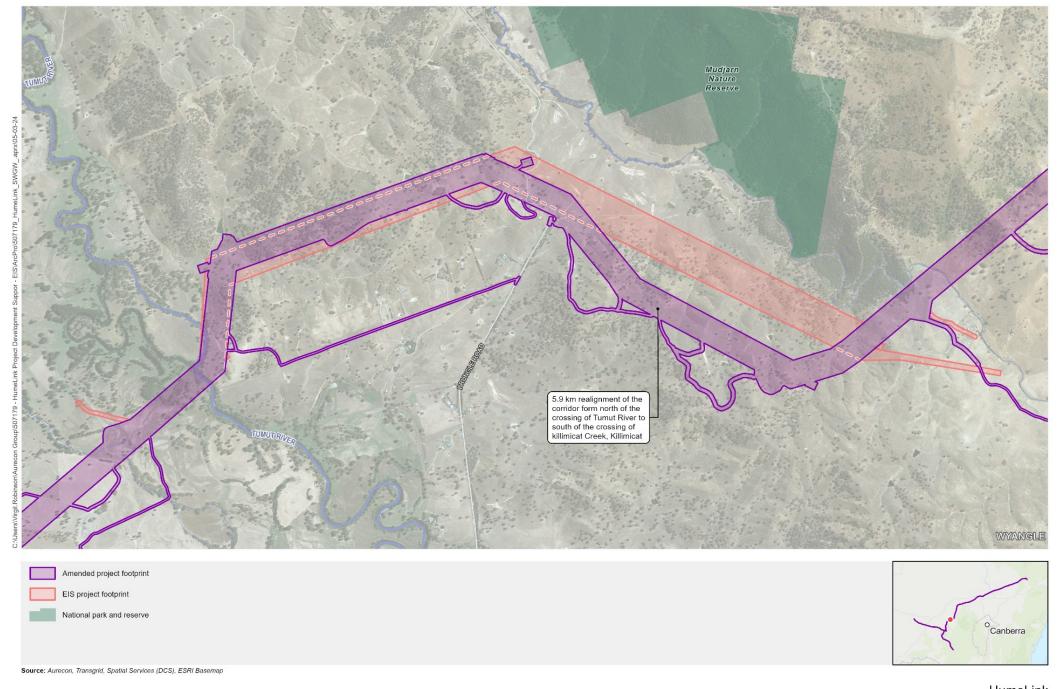
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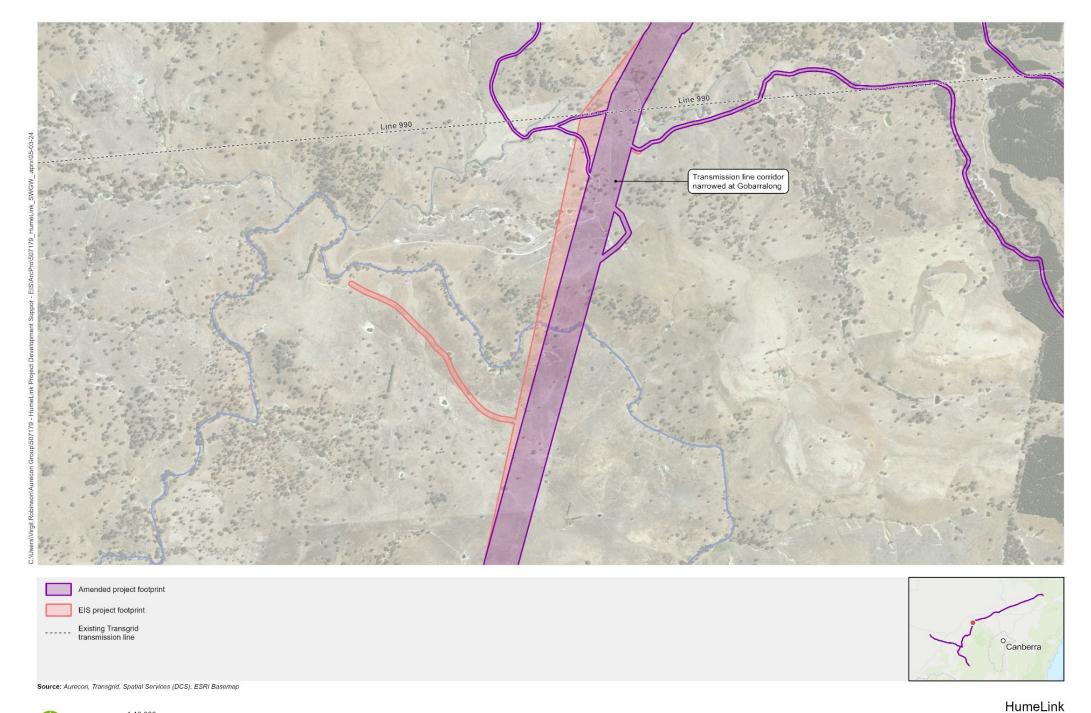


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Attachment A: Amended sections of the project Page 5 of 23

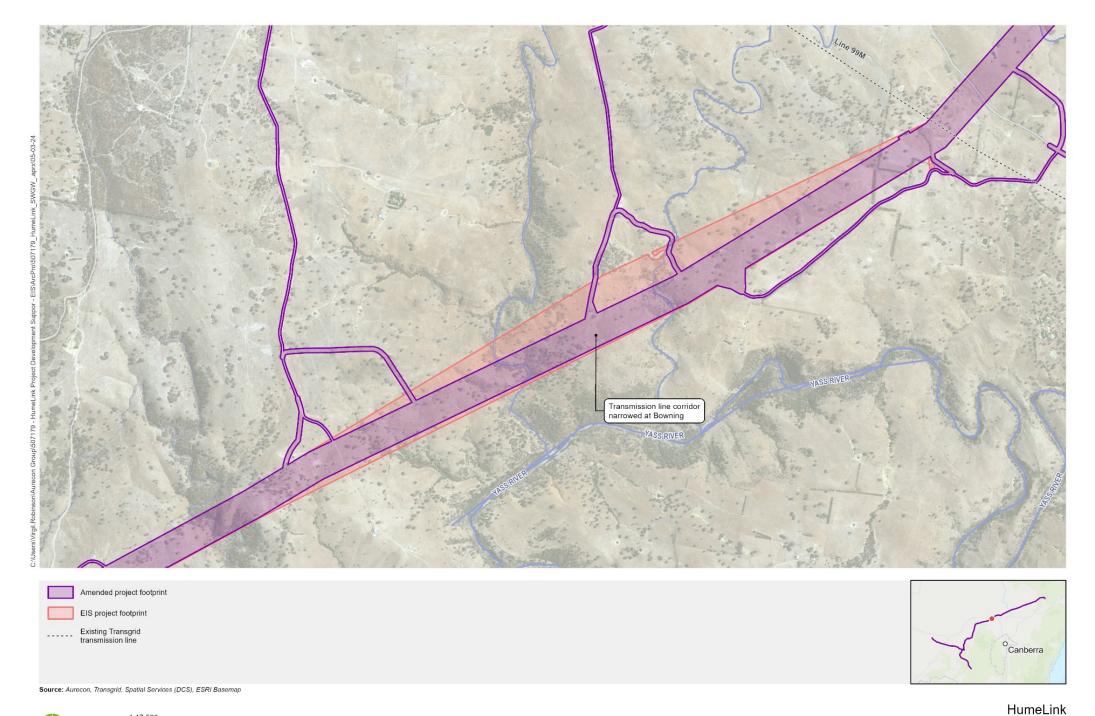






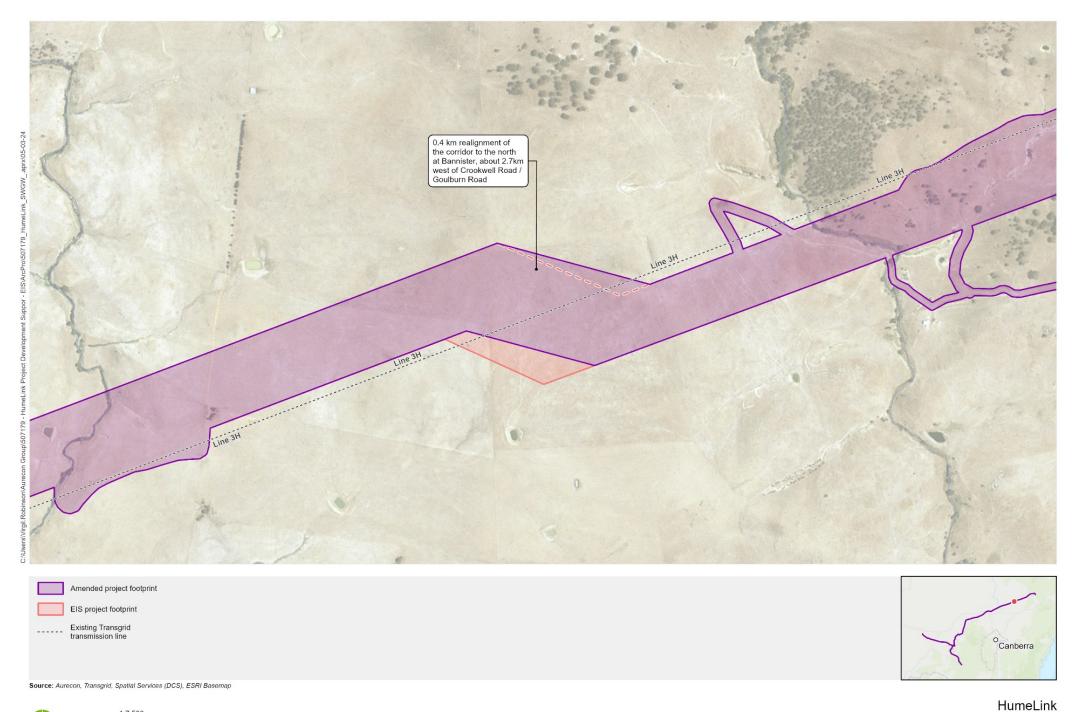
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Attachment A: Amended sections of the project Page 8 of 23



Projection: GDA 1994

Attachment A: Amended sections of the project Page 9 of 23



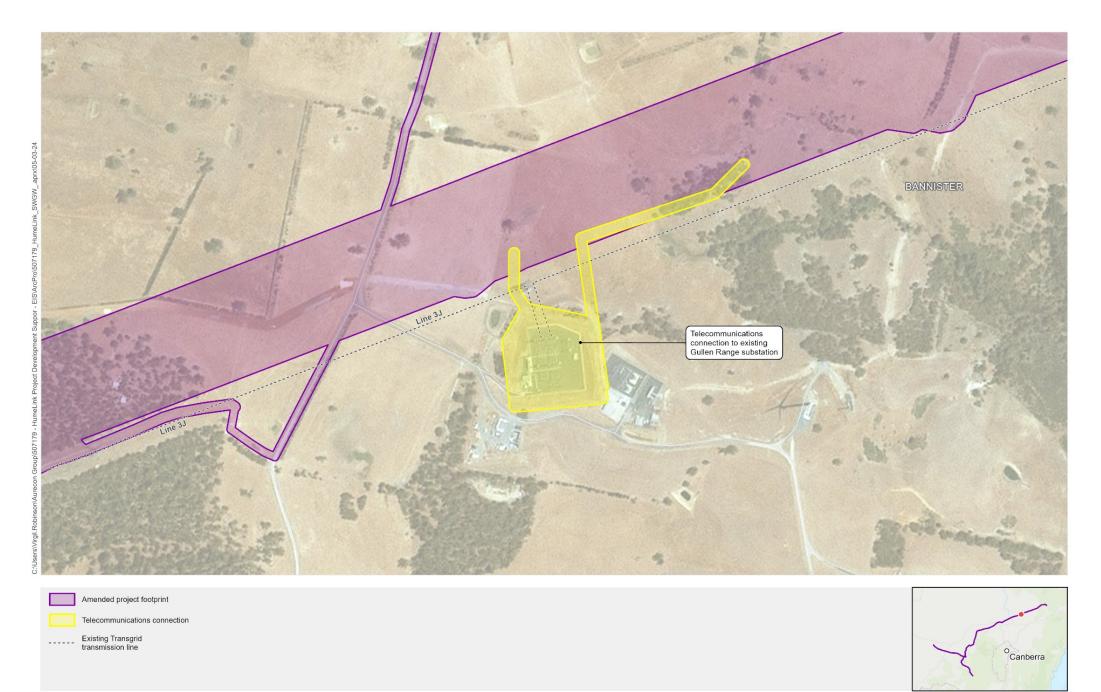
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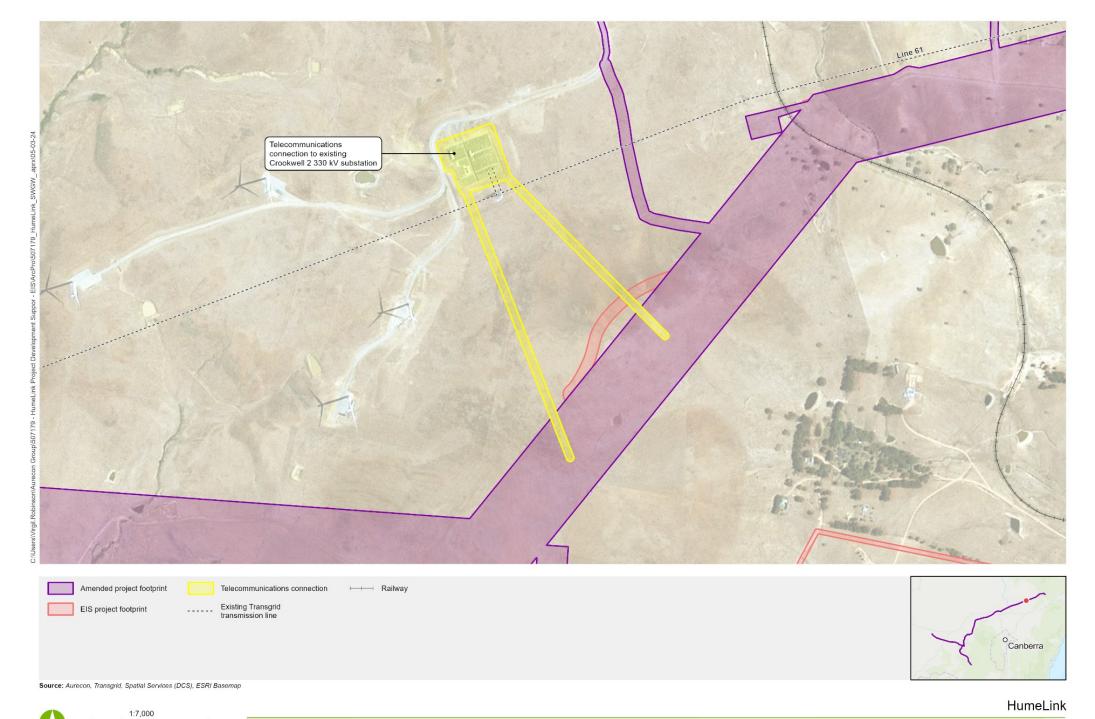
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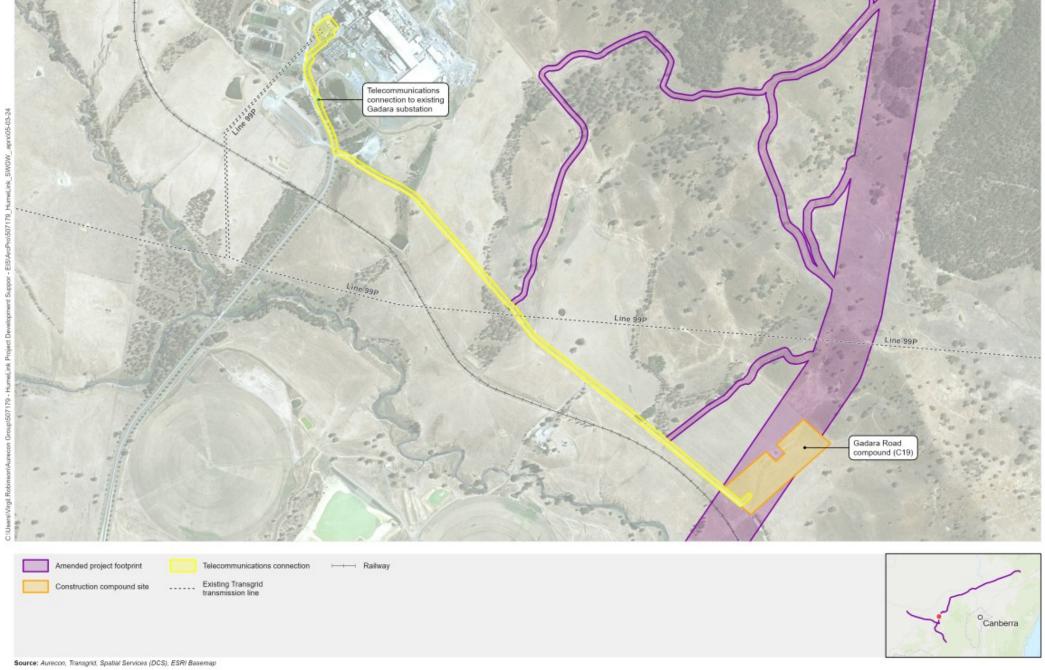
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Attachment A: Amended sections of the project Page 10 of 23



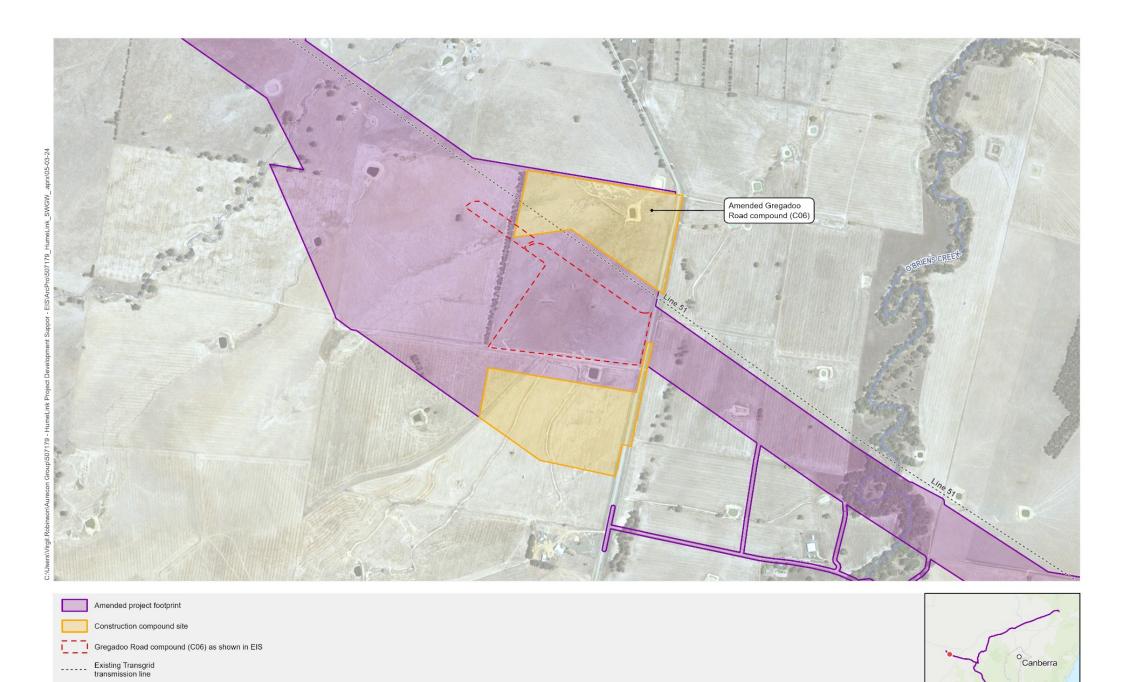
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Attachment A: Amended sections of the project Page 11 of 23





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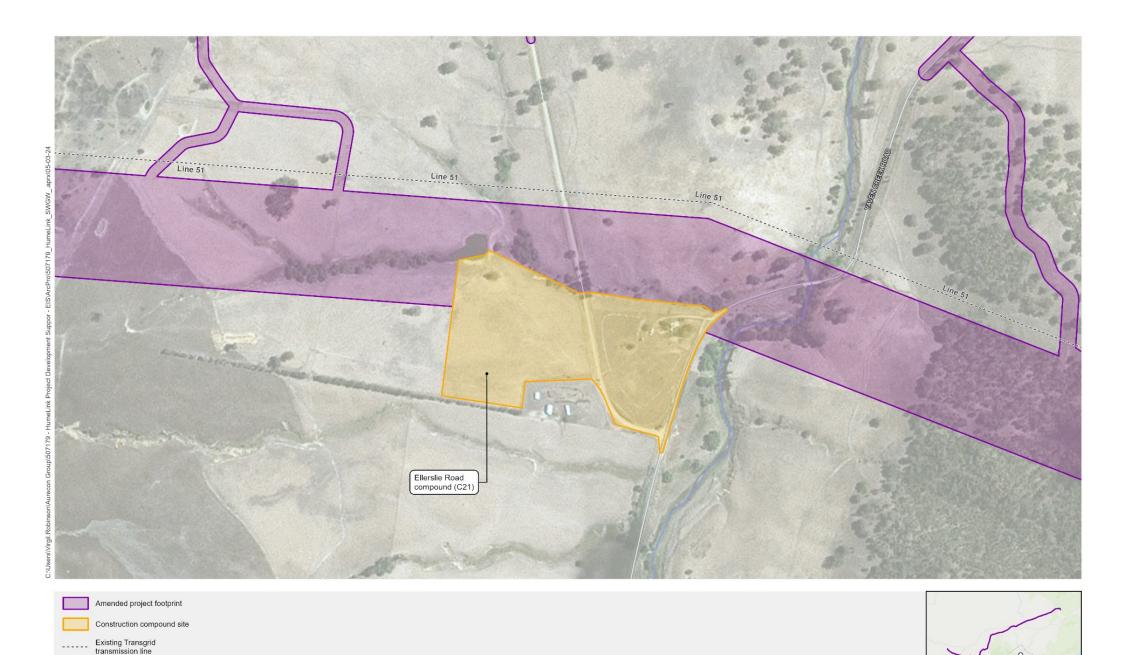
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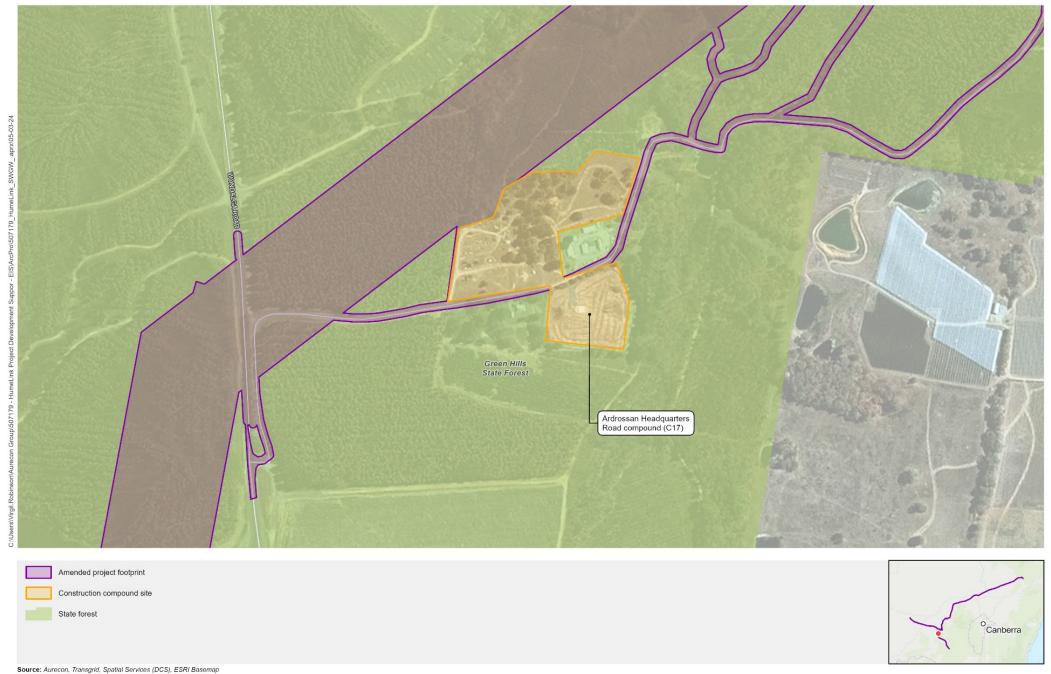
Attachment A: Amended sections of the project Page 15 of 23



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Canberra

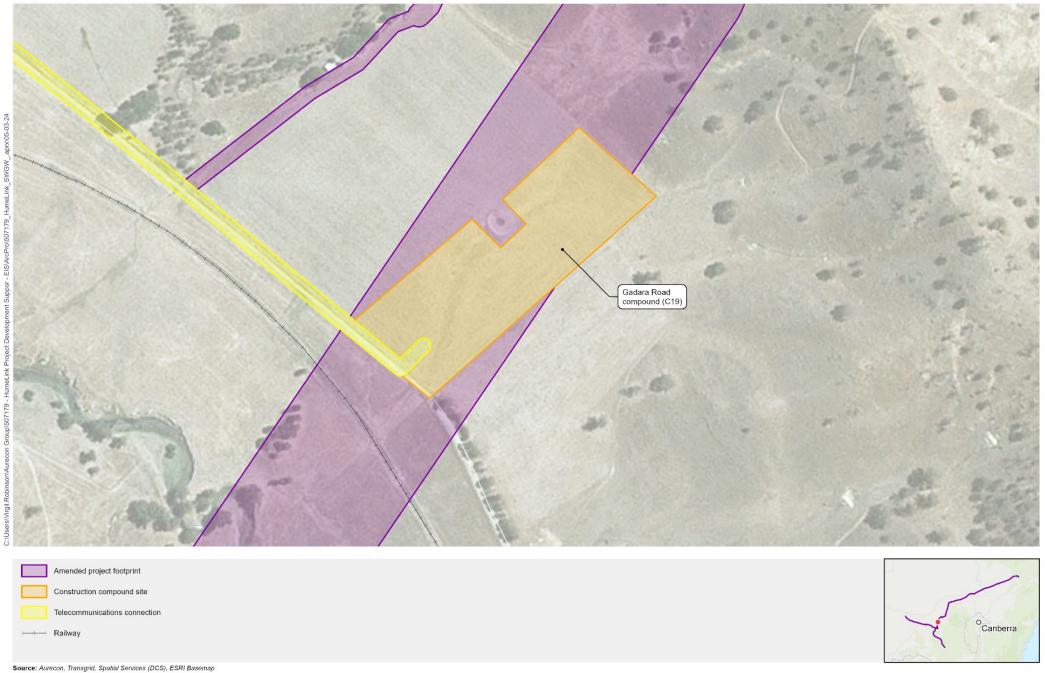
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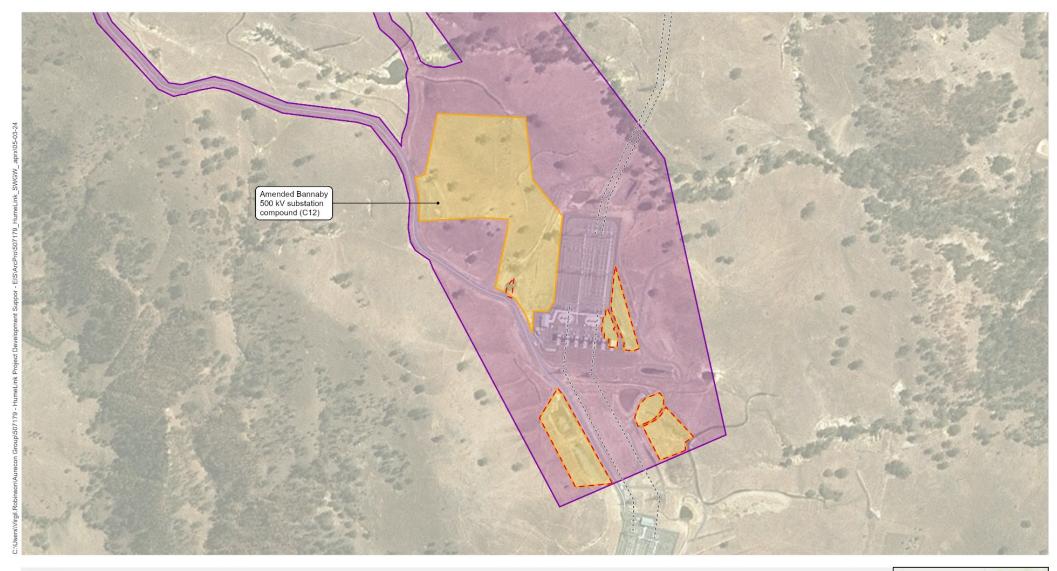
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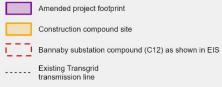




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HumeLink Attachment A: Amended sections of the project Page 19 of 23







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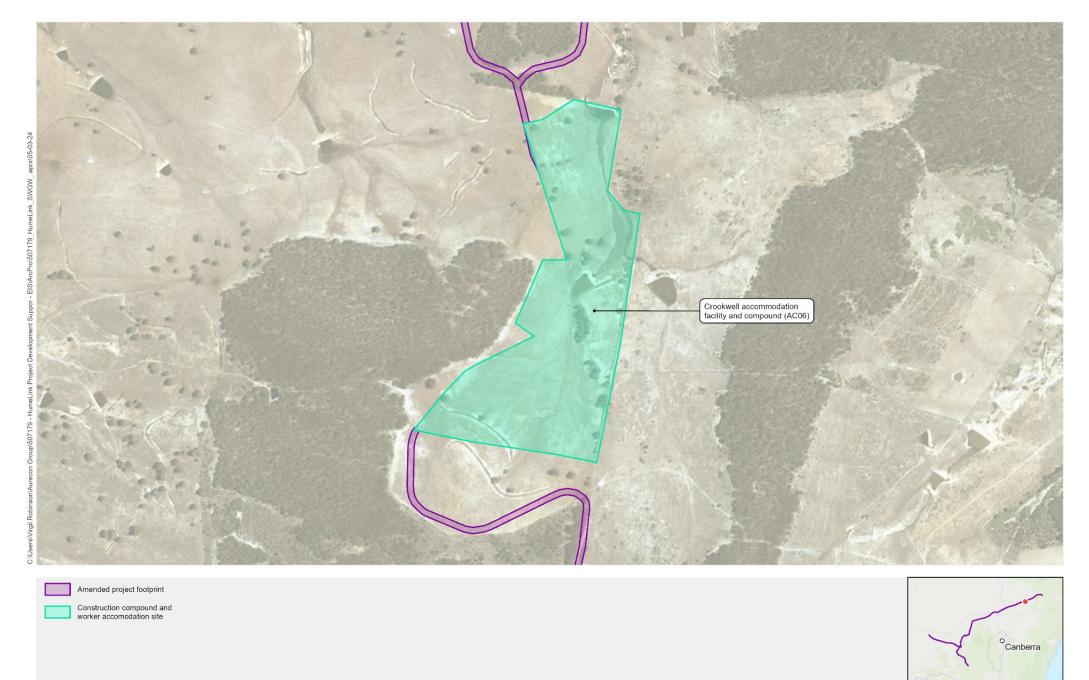
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Attachment A: Amended sections of the project Page 21 of 23

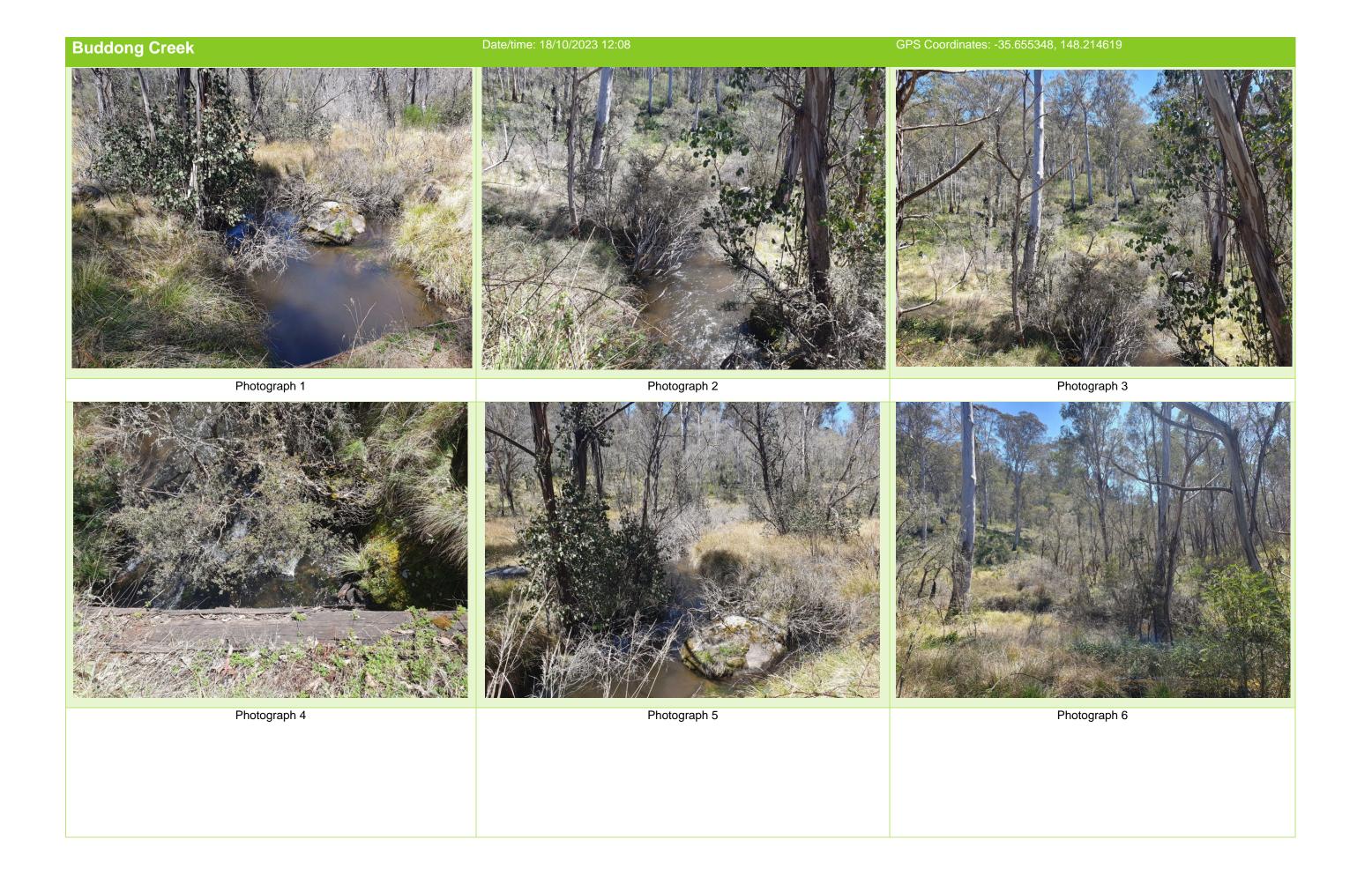




Attachment B Waterway survey results



| Bago Creek | | Date/time: 17/10/2023 14:55 | GPS Coordinates: -35.570677, 148.059674 | |
|---------------------------------|-------------|---|--|--|
| Water quality parameters: | | Description: | Description: | |
| Temperature (°C) 9.8 | | Local impacts on streams: | | |
| | | Road/causeway, forestry activities. Banks: | | |
| Electrical Conductivity (µS/cm) | 20.0 | Left and right convex banks and moderately sloped (30-60°). | | |
| Dissolved oxygen (mg/L) | 8.12 | Notes: | | |
| Dissolved oxygen sat. (%) | 81.2 | High flow, brown, slightly turbid. | | |
| | 7.50 | Shallow valley. | | |
| pH | 7.58 | Riparian vegetation: | | |
| Turbidity (NTU) | 5.6 | 90% native, 10% exotic. | | |
| Oxygen reduction potential (mV) | 73.4 | Overall vegetation disturbance rating: Moderately disturbed vegetation along banks, however forestry | y activities (50-100m from creek) beyond. Some invasive weeds present. | |
| Oils | Not visible | Factors affecting bank stability: | y activities (50 Toom nom creek) beyond. Come invasive weeds present. | |
| Odours | None | Human access, road/causeway and cleared vegetation. Cleared | ed forestry areas surrounding creek. | |



| Buddong Creek | | Date/time: 18/10/2023 12:08 | GPS Coordinates: -35.655348, 148.214619 | |
|---------------------------------------|-------------|--|---|--|
| Water quality parameters: | | Description: | Description: | |
| - (20) | | Local impacts on streams: | | |
| Temperature (°C) | 8.0 | Bridge/culvert, state forest. | | |
| Conductivity (µS/cm) | 10.3 | Banks: | | |
| | | Left and right convex and moderately sloped (30-60°) | banks. | |
| Dissolved oxygen (mg/L) | 7.79 | Notes: | • Notes: | |
| Discribed as a section (00) | | Brown, slightly turbid, moderate flow. | | |
| Dissolved oxygen sat. (%) | 77.9 | Valley shape: | | |
| pH | 7.87 | Shallow valley. | | |
| | | Riparian vegetation: | Riparian vegetation: | |
| Turbidity (NTU) | 3.9 | 90% native, 10% exotic. | | |
| | 100.4 | Overall vegetation disturbance rating: | | |
| Oxygen reduction potential (mV) 122.4 | | Low disturbance of vegetation. State forest. Mostly na | tive vegetation/bushland, moderately dense. Dry/burnt vegetation. | |
| Oils | Not visible | Factors affecting bank stability: | Factors affecting bank stability: | |
| | | Culvert/bridge | Culvert/bridge | |
| Odours | None | | | |









Photograph 4 Photograph 5 Photograph 6

| Comatawa Creek | | Date/time: 16/10/2023 12:30 | GPS Coordinates: -35.339029, 147.711737 |
|---------------------------------|-------------|--|---|
| Water quality parameters: | | Description: | |
| T | | Local impacts on streams: | |
| Temperature (°C) | 15.5 | Culvert, grazing. | |
| Conductivity (µS/cm) | 404.3 | Banks: | |
| | | Left and right wide lower bench and low sloped (10-30°) banks | 5. |
| Dissolved oxygen (mg/L) | 6.72 | Notes: | |
| Dissolved oxygen sat. (%) | 69.9 | Brown, turbid, low flow/baseflow. Visible erosion along banks. | |
| Dissolved Oxygen Sat. (70) | 09.9 | Valley shape: | |
| pH | 7.46 | Shallow valley, broad valley. | |
| | | Floodplain features: | |
| Turbidity (NTU) | 15.1 | Floodplain scours, scour holes formed by the concentrated cle | earing and digging action of flowing water. |
| Oxygen reduction potential (mV) | 109.5 | Riparian vegetation: | |
| Cxygen reduction potential (mv) | 100.0 | 95% native, 5% exotic. | |
| Oils | Not visible | Overall vegetation disturbance rating: | |
| | | Very high disturbance to vegetation. Surrounding land cleared for grazing. Erosion evident along both banks. | |
| Odours | None | Factors affecting bank stability: | |
| | | Stock access, human access, culvert and cleared vegetation. | |



| Darlows Creek | | Date/time: 17/10/2023 10:55 | GPS Coordinates: -35.347283, 147.950710 |
|-----------------------------------|-------------|--|--|
| Water quality parameters: | | Description: | |
| T (00) | 40.4 | Local impacts on streams: | |
| Temperature (°C) | 12.1 | Bridge, grazing. | |
| Conductivity (µS/cm) | 85.2 | Banks: | |
| | | Left and right convex and moderately sloped (30-60°) banks. | |
| Dissolved oxygen (mg/L) | 7.12 | • Notes: | |
| Dissolved evergen set (0/) | 71.2 | Moderate flow, slightly turbid, light brown. | |
| Dissolved oxygen sat. (%) | | Valley shape: | |
| pH | 7.43 | Shallow valley. | |
| | | Riparian vegetation: | |
| Turbidity (NTU) | 103.4 | 30% native, 70% exotic. | |
| Oxygen reduction potential (mV) | 141.5 | Overall vegetation disturbance rating: | |
| Oxygen reduction potential (IIIV) | 141.5 | Very high disturbance: Very high disturbance of vegetation. Surrounding land | d cleared for grazing. Vegetation mostly non-native. Erosion evident along |
| Oils | Not visible | banks. | |
| | | Factors affecting bank stability: Charles access besides and alcohology to the stability and alcohology to the stability. | |
| Odours | None | Stock access, bridge and cleared vegetation. | |
| | | | |

| Foleys Gully | | Date/time: 16/10/2023 16:15 | GPS Coordinates: -35.247835, 147.456750 |
|---------------------------------|-------------|---|--|
| Water quality parameters: | | Description: | |
| T(00) | | Local impacts on streams: | |
| Temperature (°C) | 15.4 | Road/culvert, grazing. | |
| Conductivity (µS/cm) | 111.2 | Banks: | |
| | | Left and right concave and flat (<10°) banks. | |
| Dissolved oxygen (mg/L) | 6.78 | • Notes: | |
| Discolved evugen set (9/) | 67.8 | Farm dam upstream not flowing, turbid, grassed gully. | |
| Dissolved oxygen sat. (%) | | Valley shape: | |
| | | Broad valley | |
| pН | 7.33 | Riparian vegetation: | |
| pri | 7.33 | Grasses | |
| Turbidity (NTU) | 145.2 | Overall vegetation disturbance rating: | |
| | | Extreme disturbance: extreme disturbance to vegetation. Nativ | ve/exotic vegetation mostly absent. Surrounding land cleared for grazing/cropping. |
| Oxygen reduction potential (mV) | 107.8 | Factors affecting bank stability: | |
| Oils | Not visible | Stock access, culvert, and cleared vegetation. Farm dam upstr | ream. |
| Odours | None | | |







Photograph 1



Photograph 2



Photograph 3



Photograph 4

Photograph 5

Photograph 6

| Galvins Creek | | Date/time: 17/10/2023 09:30 | GPS Coordinates: -35.380827, 147.832433 |
|---------------------------------|-------------|---|--|
| Water quality parameters: | | Description: | |
| Temperature (°C) | 11.4 | Local impacts on streams: Culvert, grazing. | |
| Conductivity (µS/cm) | 475.2 | Banks: Left and right stepped and moderately (30-60°) sloped banks. | |
| Dissolved oxygen (mg/L) | 6.90 | Notes: | |
| Dissolved oxygen sat. (%) | 69 | Clear, low flow, bank erosion. Valley shape: | |
| рН | 7.99 | Broad valley. Riparian vegetation: | |
| Turbidity (NTU) | 2.7 | 90% native, 10% exotic | |
| Oxygen reduction potential (mV) | 117.7 | Overall vegetation disturbance rating: Very high disturbance: very high disturbance of vegetation. Surrounds cleared | d for grazing. Minor native vegetation present along banks. Visible erosion. |
| Oils | Not visible | Factors affecting bank stability: Stock access, culvert and cleared vegetation. | |
| Odours | None | Otock access, curvert and cleared vegetation. | |

| Gilmore Creek | | Date/time: 18/10/2023 13:10 | GPS Coordinates: -35.602613, 148.170796 | |
|---------------------------------|-------------|---|--|--|
| Water quality parameters: | | Description: | Description: | |
| Temperature (°C) | 8.8 | Local impacts on streams: Road bridge, forestry activities. | | |
| Conductivity (µS/cm) | 10.8 | ■ Banks: Left and right convex and low (10-30°) sloped. | | |
| Dissolved oxygen (mg/L) | 7.77 | Notes: | | |
| Dissolved oxygen sat. (%) | 77.7 | Moderate flow, slightly turbid, light brown, sandy bed, fis Valley shape: | sh present. | |
| рН | 6.66 | Shallow valley. Riparian vegetation: | | |
| Turbidity (NTU) | 8.3 | 80% native, 20% exotic. | | |
| Oxygen reduction potential (mV) | 132.8 | Overall vegetation disturbance rating: Very high disturbance: very high vegetation disturbance | (forestry). Cleared land surrounding creek. Mix of native/exotic vegetation along banks. | |
| Oils | Not visible | Factors affecting bank stability: | (.e.e.,), e.e. e.e. e.e. e.e. e.e. e.e. | |
| Odours | None | Human access, road/bridge and cleared vegetation (forestry area). | | |

Photograph 5

Photograph 6

Photograph 4

| Gocup Creek | | Date/time: 19/10/2023 09:41 | GPS Coordinates: -35.247916, 148.215863 | |
|---------------------------------|-------------|---|--|--|
| Water quality parameters: | | Description: | Description: | |
| Temperature (°C) | 14.3 | Local impacts on streams: Culvert, grazing. | | |
| Conductivity (µS/cm) | 102.5 | ■ Banks: Left and right wide lower bench and vertically (80-90°) s | | |
| Dissolved oxygen (mg/L) | 6.03 | • Notes: | | |
| Dissolved oxygen sat. (%) | 60.3 | Moderate flow, clear, slightly turbid. • Valley shape: | | |
| рН | 7.26 | Shallow valley Riparian vegetation: | | |
| Turbidity (NTU) | 17.1 | 20% native, 80% exotic. | | |
| Oxygen reduction potential (mV) | 41.1 | Overall vegetation disturbance rating: Extreme disturbance: very high disturbance to vegetation. | on. Cleared for grazing + roadway. Minimal native vegetation. | |
| Oils | Not visible | Factors affecting bank stability: Stock access cleared vegetation. Visible erosion along | Factors affecting bank stability: Stock access, cleared vegetation. Visible erosion along downstream banks. | |
| Odours | None | Stock access, cleared vegetation. Visible erosion along | | |



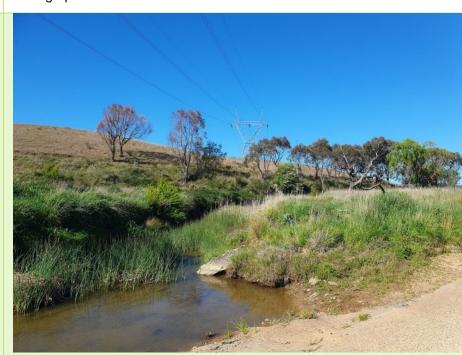
| Humes Creek | D | Pate/time: 19/10/2023 15:00 | GPS Coordinates: -34.639263, 149.374974 |
|---------------------------------|--------------|---|---|
| Water quality parameters: | | Description: | |
| Waterway fenced off with stee | | Local impacts on streams: | |
| quality parameters unable to b | e collected. | Bridge, grazing | |
| Temperature (°C) | _ | Banks: | |
| | | Left and right convex banks and moderately (30-60°) sloped. | |
| Conductivity (µS/cm) | - | Notes: | |
| Dissolved oxygen (mg/L) | _ | Low flow, brown, moderately turbid Valley shape: | |
| Dissolved oxygen (mg/L) | | Shallow valley | |
| Dissolved oxygen sat. (%) | - | Riparian vegetation: | |
| pН | | 90% native, 10% exotic | |
| ρΠ | - | Overall vegetation disturbance rating: | |
| Turbidity (NTU) | - | Moderate disturbance Cleared for grazing to the east. Native species present in surro | ounding areas and along banks |
| Owner we direction metantial | | Factors affecting bank stability: | |
| Oxygen reduction potential (mV) | - | Bridge, cleared grazing land (east). | |
| Oils | Not visible | | |
| Odours | None | | |







Photograph 5



Photograph 6

| Jerrawa Creek | | Date/time: 19/10/2023 16:00 | GPS Coordinates: -34.702019, 149.167271 |
|---------------------------------|-------------|---|---|
| Water quality parameters: | | Description: | |
| T (00) | 40.4 | Local impacts on streams: | |
| Temperature (°C) | 19.1 | Road/causeway, grazing. | |
| Conductivity (µS/cm) | 1401 | Banks: | |
| , , | | Left and right convex and moderately (30-60°) sloped be | panks. |
| Dissolved oxygen (mg/L) | 5.83 | Notes: | |
| Discoluted system act (0() | 50.0 | Brown with green tinge low flow, moderately turbid. | |
| Dissolved oxygen sat. (%) | 58.3 | Valley shape: | |
| pH | 8.00 | Shallow valley | |
| | | Riparian vegetation: | |
| Turbidity (NTU) | 10.1 | 90% native, 10% exotic | |
| Oxygen reduction potential (mV) | 69.3 | Overall vegetation disturbance rating: | |
| Oxygen reduction potential (mv) | 09.3 | Very high disturbance: very high disturbance to vegetat | tion. Surrounding land cleared for grazing. Some nature vegetation along banks. |
| Oils | Not visible | Factors affecting bank stability: | |
| Odours | None | Stock access, human access, road/causeway and cleared vegetation. | |

| Jugiong Creek | | Date/time: 19/10/2023 13:45 | GPS Coordinates: -34.870193, 148.605145 |
|---------------------------------|-------------|---|--|
| Water quality parameters: | | Description: | |
| Temperature (°C) | 15.7 | Local impacts on streams: Bridge, grazing. | |
| Conductivity (µS/cm) | 521 | ■ Banks: Left and right convex and low (10-30°) sloped banks. | |
| Dissolved oxygen (mg/L) | 6.51 | Notes: | |
| Dissolved oxygen sat. (%) | 65.1 | Low flow, light brown, moderate turbidity. • Valley shape: | |
| рН | 7.36 | Shallow valley Riparian vegetation: | |
| Turbidity (NTU) | 9.2 | 80% native, 20% exotic | |
| Oxygen reduction potential (mV) | 20.5 | Overall vegetation disturbance rating: High disturbance: high disturbance to vegetation. Clearing for grazing. | g,+ roadway. Mostly native vegetation along banks. |
| Oils | Not visible | Factors affecting bank stability: Stock access, bridge and cleared vegetation. | |
| Odours | None | | |







Photograph 1 Photograph 2







Photograph 4 Photo

Photograph 5

Photograph 6

Photograph 3

| Keajura Creek | | Date/time: 16/10/2023 13:00 GPS Coordinates: -35.323365, 147.649912 |
|---------------------------------|-------------|--|
| Water quality parameters: | | Description: |
| T (00) | 44.7 | Local impacts on streams: |
| Temperature (°C) | 14.7 | Road/bridge, grazing. |
| Conductivity (µS/cm) | 1275 | Banks: |
| | | Left and right stepped and moderately (30-60°) sloped banks. |
| Dissolved oxygen (mg/L) | 6.71 | Notes: |
| D' (01) | 67.1 | Moderate flow, slow turbidity. Organics/moss coverage. Vegetation (roads etc.) lining banks. |
| Dissolved oxygen sat. (%) | | Valley shape: |
| pH | 7.54 | Broad valley |
| | | Riparian vegetation: |
| Turbidity (NTU) | 8.3 | 90% native, 10% exotic |
| | 20.5 | Overall vegetation disturbance rating: |
| Oxygen reduction potential (mV) | 89.5 | High disturbance: high disturbance of vegetation. Surrounds cleared for cropping/grazing. Highway nearby bank erosion visible. |
| Oils | Not visible | Factors affecting bank stability: |
| | | Stock access, human access, bridge and cleared vegetation. Visible erosion/flood debris along banks. |
| Odours | None | |

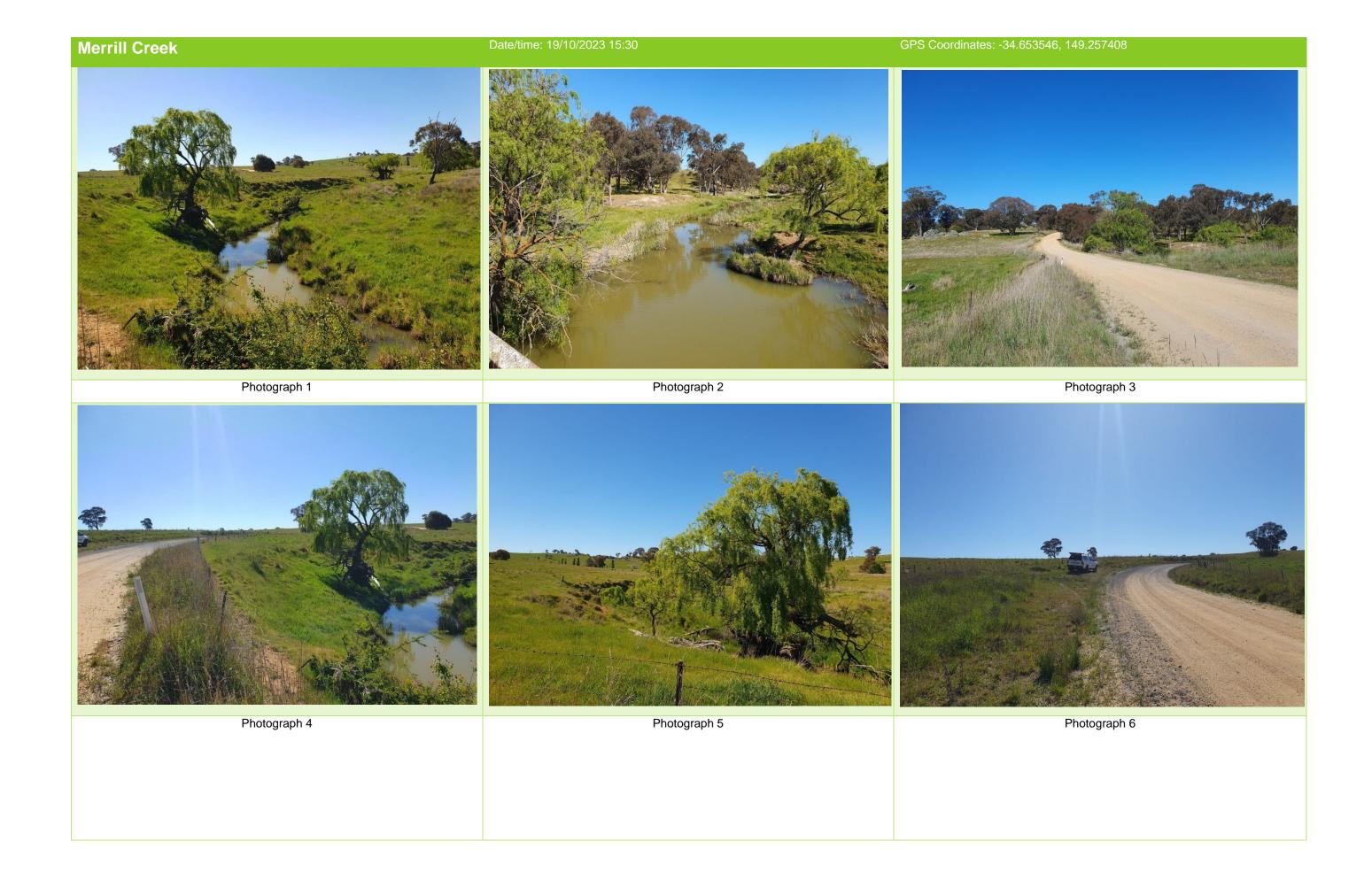


| Kyeamba Creek | | Date/time: 16/10/2023 15:30 GPS Coordinates: -35.276663, 147.516339 | |
|---------------------------------|-------------|---|--|
| Water quality parameters: | | Description: | |
| Temperature (°C) | 15.0 | Local impacts on streams: Bridge, grazing. | |
| Conductivity (µS/cm) | 723 | Banks: Left and right convex and low (10-30°) sloped banks. | |
| Dissolved oxygen (mg/L) | 7.01 | • Notes: | |
| Dissolved oxygen sat. (%) | 70.1 | Moderate to low flow, moderate turbidity, brown. • Valley shape: | |
| рН | 7.63 | Broad valley Riparian vegetation: | |
| Turbidity (NTU) | 65.7 | 90% native, 10% exotic | |
| Oxygen reduction potential (mV) | 128.9 | Overall vegetation disturbance rating: High disturbance: high disturbance to vegetation. Native vegetation along banks. Surrounding land cleared for cropping/grazing. | |
| Oils | Not visible | Factors affecting bank stability: Bridge and cleared vegetation. | |
| Odours | None | | |

| Long Creek | | Date/time: 18/10/2023 10:08 | GPS Coordinates: -35.726626, 148.244658 |
|---------------------------------|-------------|---|---|
| Water quality parameters: | | Description: | |
| Temperature (°C) | 6.6 | Local impacts on streams: Culvert, state forest. | |
| Conductivity (µS/cm) | 13.0 | Banks: Left and right concave and low (10-30°) sloped banks. | |
| Dissolved oxygen (mg/L) | 7.84 | Notes: | |
| Dissolved oxygen sat. (%) | 78.4 | Clear, flowing, dammed section, west of causeway. Culvert under road. • Valley shape: | |
| рН | 7.56 | Shallow valley Riparian vegetation: | |
| Turbidity (NTU) | 3.1 | 90% native, 10% exotic. | |
| Oxygen reduction potential (mV) | 87.7 | Overall vegetation disturbance rating: Low disturbance: low disturbance of vegetation. State forest. Mostly native vegetation. | vegetation/bushland, moderately dense. |
| Oils | Not visible | Factors affecting bank stability: Culvert | |
| Odours | None | | |



| Mandys Creek Water quality parameters: | | Date/time: 18/10/2023 13:19 | GPS Coordinates: -35.605606, 148.171192 | |
|--|-------------|---|--|--|
| | | Description: | | |
| Temperature (°C) | 8.6 | Local impacts on streams: Forestry activities. | | |
| Conductivity (µS/cm) | 11.2 | Banks: Left and right convex and moderately (30-60°) sloped banks. | | |
| Dissolved oxygen (mg/L) | 7.59 | • Notes: | | |
| Dissolved oxygen sat. (%) | 75.9 | Moderate flow, clear, low turbidity, turbulent rapids with small waterfalls. Valley shape: Shallow valley Riparian vegetation: | | |
| рН | 6.48 | | | |
| Turbidity (NTU) | 3.9 | 70% native, 30% exotic | | |
| Oxygen reduction potential (mV) | 126.1 | Overall vegetation disturbance rating: Very high disturbance: very high disturbance (forestry). Cleared | land surrounding creek. Mix of native/exotic vegetation along banks. | |
| Oils | Not visible | Factors affecting stability: Cleared vegetation (forestry area). | | |
| Odours | None | | | |



| Merrill Creek | | Date/time: 19/10/2023 15:30 GPS Coordinates: -34.653546, 149.257408 |
|---------------------------------|-------------|---|
| Water quality parameters: | | Description: |
| Temperature (°C) | 17.2 | Local impacts on streams: Bridge, grazing. |
| Conductivity (µS/cm) | 967 | Banks: Left and right concave and low (10-30°) sloped banks. |
| Dissolved oxygen (mg/L) | 6.4 | Notes: |
| Dissolved oxygen sat. (%) | 64 | Low flow, brown, moderately turbid. Valley shape: |
| рН | 7.75 | Shallow valley Riparian vegetation: |
| Turbidity (NTU) | 13.6 | 80% native, 20% exotic. |
| Oxygen reduction potential (mV) | 78.2 | Overall vegetation disturbance rating: Very high disturbance: very high disturbance to vegetation. Surrounding land cleared for grazing. Some native and exotic species along banks. |
| Oils | Not visible | Factors affecting bank stability: Stock access, bridge and cleared vegetation. |
| Odours | None | |



| Saw Mill Creek | | Date/time: 19/10/2023 10:42 | GPS Coordinates: -35.109019, 148.352053 |
|---------------------------------|-------------|--|--|
| Vater quality parameters: | | Description: | |
| | | Local impacts on streams: | |
| Temperature (°C) | 11.8 | Road/culvert forestry activities. Forestry area levees + p | ump house present. |
| | | Banks: | |
| Conductivity (µS/cm) | 110.5 | Left and right concave and low (10-30°) sloped banks. | |
| Dissolved oxygen (mg/L) | 6.75 | • Notes: | |
| Discorred exygen (mg/2) | S. C | Moderate flow, slightly turbid, light brown. Levees/culver | t. Pump house downstream of culvert. |
| Dissolved oxygen sat. (%) | 67.5 | Valley shape: | |
| | | Steep valley. | |
| pH | 7.37 | Riparian vegetation: | |
| Turbidity (NTU) | 9.0 | 60% native, 40% exotic. | |
| | | Overall vegetation disturbance rating: | |
| Oxygen reduction potential (mV) | 109.0 | High disturbance: high disturbance to vegetation from fo | restry activities. Exotic species/weeds present along banks. |
| | Not visible | Factors affecting stability: | |
| Oils | | Culvert and cleared vegetation. Levees/pump house pre | esent. Forestry area. |
| Odours | None | | |

 Sawpit Gully
 Date/time: 19/10/2023 10:11
 GPS Coordinates: -35.215321, 148.298297





Photograph 1 Photograph 2

| Sawpit Gully | | | Date/time: 19/10/2023 10:11 | GPS Coordinates: -35.215321, 148.298297 |
|---|--|--|--|---|
| Water quality parameters: | | | Description: | |
| Waterway inaccessible due to privat unable to be collected. | Waterway inaccessible due to private driveway with anti-Transgrid/Humelink signage. Water quality parameters unable to be collected. | | Local impacts on streams:Grazing | |
| Temperature (°C) | - | | Banks: Left and right concave and moderate (30- | -60°) sloped banks. |
| Conductivity (µS/cm) | - | | Notes: | |
| Dissolved oxygen (mg/L) | - | | Valley shape: Shallow valley. | |
| Dissolved oxygen sat. (%) | - | | Riparian vegetation:20% native, 80% exotic | |
| Turbidity (NTU) | - | | Overall vegetation disturbance rating Extreme disturbance: Both sides cleared | ng: for grazing. Severely reduced riparian vegetation |
| Oxygen reduction potential (mV) | - | | Factors affecting stability:Cleared vegetation for grazing | |
| Oils | - | | | |
| Odours | - | | | |

Photograph 5

Photograph 6

Photograph 4

| Sheepyard Creek | | Date/time: 18/10/2023 12:30 | GPS Coordinates: -35.643128, 148.219840 |
|---------------------------------|--------------|---|--|
| Water quality parameters: | | Description: | |
| | | Local impacts on streams: | |
| Temperature (°C) | 8.7 | Culvert, state forest. | |
| | 10.0 | Banks: | |
| Conductivity (µS/cm) | 13.0 | Left and right convex and low (10-30°) sloped banks. | |
| Dissolved oxygen (mg/L) | 7.38 | • Notes: | |
| | | Clear, moderate flow, low turbidity. Dense vegetation/debris weeds (thorny). | |
| Dissolved oxygen sat. (%) | 73.8 | Valley shape: | |
| nU. | 6.76 | Shallow valley. | |
| pH | 0.76 | Riparian vegetation: | |
| Turbidity (NTU) | 2.9 | 80% native, 20% exotic. | |
| | | Overall vegetation disturbance rating: | |
| Oxygen reduction potential (mV) | 130.3 | Low disturbance: low disturbance of vegetation. State forest. Mostly native v | egetation/bushland with some non-native weeds. Dry/burnt vegetation. |
| Oils | Not visible | Factors affecting stability: | |
| Olio | 140C VISIBIE | Culvert | |
| Odours | None | | |



| Snubba Creek | | Date/time: 18/10/2023 13:32 | GPS Coordinates: -35.589836, 148.192259 |
|---------------------------------|-------------|---|---|
| Water quality parameters: | | Description: | |
| - (20) | | Local impacts on streams: | |
| Temperature (°C) | 9.9 | Culvert, forestry activities. | |
| Conductivity (µS/cm) | 12.6 | Banks: | |
| Conductivity (po/em) | 12.0 | Left and right convex and steep (60-80°) sloped banks. | |
| Dissolved oxygen (mg/L) | 7.46 | Notes: | |
| | | High/rapid flow. Rocky, turbulent. Clear, light brown, low turbidity. | |
| Dissolved oxygen sat. (%) | 74.6 | Valley shape: | |
| | | Steep valley. | |
| pH | 6.51 | Riparian vegetation: | |
| Turbidity (NTU) | 4.4 | 70% native and 30% exotic. | |
| Turbidity (NTO) | 17.7 | Overall vegetation disturbance rating: | |
| Oxygen reduction potential (mV) | 127.5 | Very high disturbance: very high disturbance. Forestry area. Cleared land sur | rrounding creek. Mix of native/exotic vegetation along banks. |
| | | Factors affecting bank stability: | |
| Oils | Not visible | Human access, culvert and cleared vegetation (forestry area). | |
| | 1 | Bed outcrops: | |
| Odours | None | Left and right banks 30% bedrock outcrops. | |

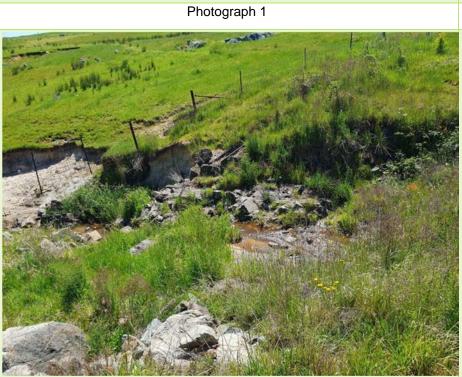


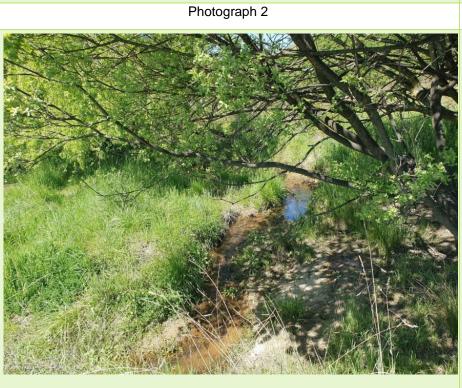
| Tooles Creek | | Date/time: 16/10/2023 14:26 | GPS Coordinates: -35.305065, 147.561122 | |
|---|---|---|---|--|
| Water quality parameters: | | Description: | | |
| Waterway inaccessible due to private property. Water quality parameters unable to be collected. | | Local impacts on streams:Grazing | | |
| Temperature (°C) - Banks: Left and right wide love. | | Banks: Left and right wide lower bench and steep (60-80°) sloped banks. | ght wide lower bench and steep (60-80°) sloped banks. | |
| Conductivity (µS/cm) | - | N/A | | |
| Dissolved oxygen (mg/L) | - | Valley shape: | | |
| Dissolved oxygen sat. (%) | - | Shallow valley. Riparian vegetation: | | |
| рН | - | 80% native and 20% exotic. Overall vegetation disturbance rating: | | |
| Turbidity (NTU) | - | High disturbance of vegetation. Surrounding land cleared for grazing. Some Factors affecting bank stability: | native riparian vegetation present along banks. | |
| Oxygen reduction potential (mV) | - | Human access, stock access and cleared vegetation (grazing area). Visible | erosion along banks. | |
| Oils | - | | | |
| Odours | - | | | |



Date/time: 19/10/23 11:13









Photograph 4

Photograph 5

Photograph 6

Unnamed waterway 2 (tributary to Adjungbilly Creek)

Date/time: 19/10/23 11:13

GPS Coordinates: -35.102130, 148.372612

| Water | quality | parameters: |
|-------|---------|-------------|
|-------|---------|-------------|

| Temperature (°C) | 15.3 |
|---------------------------------|-------------|
| Conductivity (µS/cm) | 158.3 |
| Dissolved oxygen (mg/L) | 6.14 |
| Dissolved oxygen sat. (%) | 61.4 |
| рН | 7.22 |
| Turbidity (NTU) | 10.9 |
| Oxygen reduction potential (mV) | -10.5 |
| Oils | Not visible |
| Odours | None |
| | 1.0.10 |

Description:

Local impacts on streams:

Culvert, forestry activities. Cleared vegetation.

Banks:

Left and right stepped and low (10-30°) sloped banks.

Notes

Moderate – low flow. Orange/brown, slightly turbid. Culvert under road. Bank erosion.

Valley shape:

Shallow valley.

Riparian vegetation:

90% exotic, 10% native.

Overall vegetation disturbance rating:

High disturbance: high disturbance to vegetation from forestry activities. Minor exotic/weeds vegetation present, mostly cleared land.

Factors affecting bank stability:

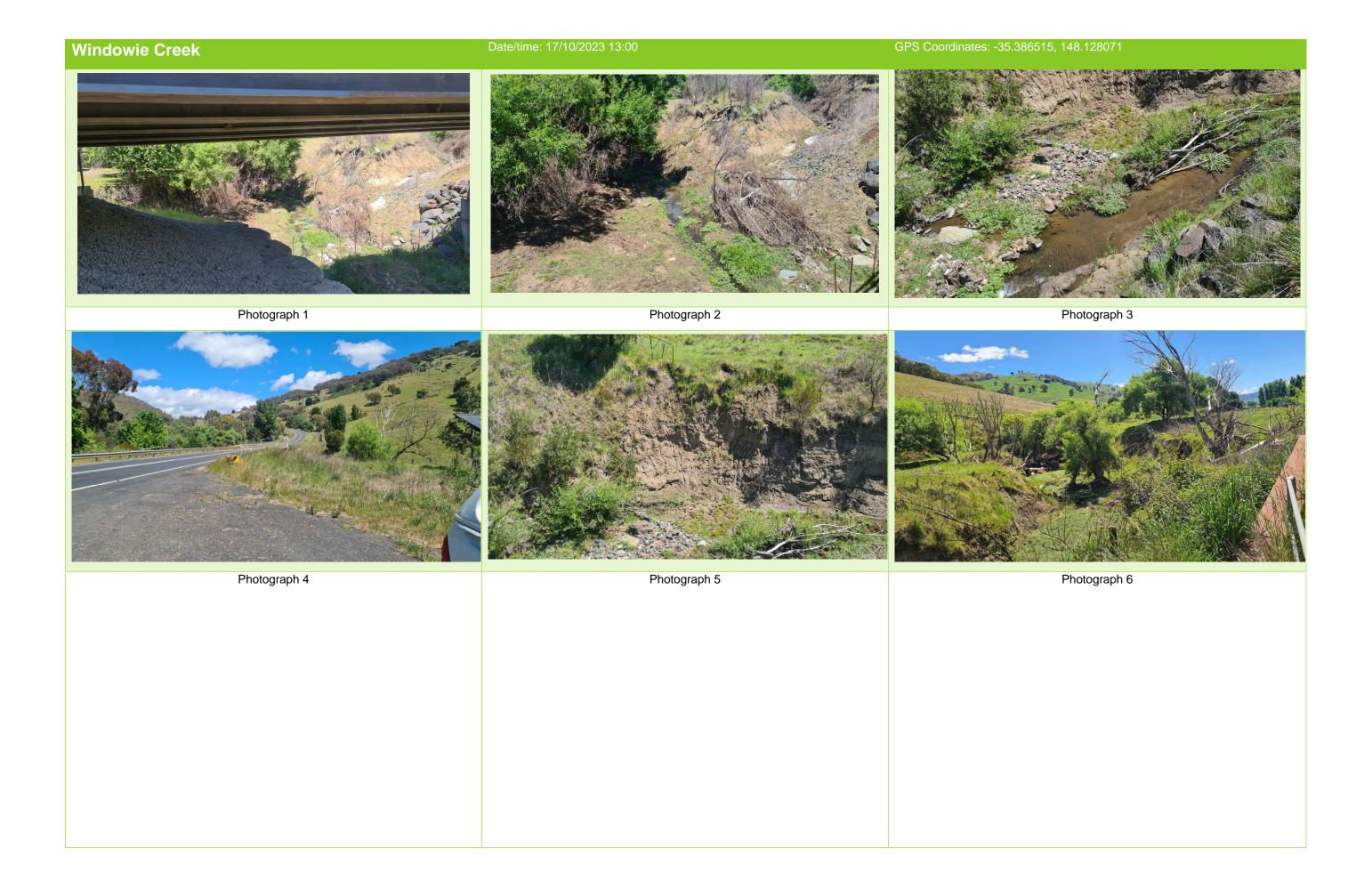
Culvert and cleared vegetation (forestry area). Rocky outcrops.

Bedrocks outcrops:

Left and right banks 10% bedrock outcrops.



| Unnamed Waterway 4 (tributary to Pejar Creek) | | Date/time: 20/10/2023 11:04 GPS Coordinates: -34.581751, 149.624699 | | |
|---|------|--|--|--|
| Water quality parameters: | | Description: | | |
| | | Local impacts on streams: | | |
| Temperature (°C) | 13.0 | Culvert, grazing farmland and windfarms. | | |
| | | Banks: | | |
| Conductivity (µS/cm) | 1464 | Left and right concave and flat (<10°) sloped banks. | | |
| Dissolved oxygen (mg/L) | 6.09 | • Notes: | | |
| Dissolved oxygen (mg/L) | 0.00 | Brown/green, moderately turbid. Algae present. Low flow/stagnant (baseflow). | | |
| Dissolved oxygen sat. (%) | 60.9 | Valley shape: | | |
| pH 8.43 | | Shallow valley. | | |
| | | Riparian vegetation: | | |
| Turbidity (NTU) 17.9 | 17.9 | 90% native, 10% exotic. | | |
| Taiblandy (TTO) | | Overall vegetation disturbance rating: | | |
| Oxygen reduction potential (mV) | 81.1 | Very high disturbance: very high disturbance to vegetation. Clearing for grazing and roadway. Mostly native with some exotic vegetation. | | |
| | | Factors affecting banks stability: | | |
| Oils Not visible | | Stock access, culvert and cleared vegetation. | | |
| Odours | None | Artificial bank protection measures: | | |
| | | Fenced from human access. | | |



| Windowie Creek | Date/time: 17/10/2023 13:00 GPS Coordinates: -35.386515, 148.128071 | | | |
|---|---|--|--|--|
| Water quality parameters: | Description: | | | |
| | Local impacts on streams: | | | |
| Waterway fenced off with steep banks (inaccessible). Water quality parameters unable to be collected. | Bridge, grazing farmland. | | | |
| | Banks: | | | |
| Temperature (°C) | Left and right wide lower bench and steep (60-80°) sloped banks. | Left and right wide lower bench and steep (60-80°) sloped banks. | | |
| | Notes: | | | |
| Conductivity (µS/cm) - | Moderate flow, clear, low turbidity | | | |
| Dissolved oxygen (mg/L) | Valley shape: | | | |
| | Steep valley. | | | |
| Dissolved oxygen sat. (%) | Riparian vegetation: | | | |
| | 60% native, 40% exotic. | | | |
| pH - | Overall vegetation disturbance rating: | | | |
| Turbidity (NTU) | Very high disturbance: Clearing for grazing and roadway. Exotic weeds and vegetation present along banks. | | | |
| | Factors affecting banks stability: | | | |
| Oxygen reduction potential (mV) - | Bridge, steep banks with visible erosion. | | | |
| Oils Not visible | | | | |
| Odours None | | | | |

Attachment C Named Waterways

Humelink | Surface Water and Groundwater Technical Addendum Report
Table C-1 Strahler order and location of named waterways intercepted by the amended transmission line corridor

| Waterway | Catchment | Strahler order | Within SDWC? |
|---------------|-------------------|----------------|--------------|
| ADELONG | Murrumbidgee | 4-5 | No |
| ADJUNGBILLY | Murrumbidgee | 6 | No |
| BACK | Hawkesbury-Nepean | 3 | Yes |
| BAGO | Murrumbidgee | 3-4 | No |
| BANGO | Murrumbidgee | 4 | No |
| BANNABY | Hawkesbury-Nepean | 3-4 | Yes |
| BIG ROCK | Murrumbidgee | 2 | No |
| BIG SRING | Murrumbidgee | 4 | No |
| BLACK | Murrumbidgee | 1 | No |
| BLACK RANGE | Murrumbidgee | 2 | No |
| BOGOLONG | Murrumbidgee | 2 | No |
| BOWNING | Murrumbidgee | 5 | No |
| BRUNGLE | Murrumbidgee | 5 | No |
| BUDDONG | Murrumbidgee | 5 | No |
| CART ROAD | Murrumbidgee | 1-4 | No |
| CATHERINES | Lachlan | 3 | No |
| COCKATOO | Murrumbidgee | 1-5 | No |
| COLLEGE | Murrumbidgee | 5 | No |
| COMATAWA | Murrumbidgee | 4 | No |
| CONNORS | Hawkesbury-Nepean | 4 | Yes |
| COOKS | Murrumbidgee | 4 | No |
| COWPERS | Hawkesbury-Nepean | 3-4 | Yes |
| COXS | Murrumbidgee | 2 | No |
| DARLOWS | Murrumbidgee | 4 | No |
| DAWSONS FLAT | Hawkesbury-Nepean | 2 | Yes |
| DERRINGULLEN | Murrumbidgee | 5 | No |
| DICKS | Murrumbidgee | 2 | No |
| DOWLINGS | Lachlan | 2-3 | No |
| EXCURSION | Murrumbidgee | 1 | No |
| FAIRY HOLE | Murrumbidgee | 2 | No |
| FELLED TIMBER | Lachlan | 3 | No |
| FIRST | Hawkesbury-Nepean | 3 | Yes |
| FLACKNELL | Lachlan | 4 | No |
| FOLEYS | Murrumbidgee | 1 | No |
| | | | |

Humelink | Surface Water and Groundwater Technical Addendum Report
Table C-1 Strahler order and location of named waterways intercepted by the amended transmission line corridor

| Waterway | Catchment | Strahler order | Within SDWC? |
|----------------|-------------------|----------------|--------------|
| FOXES | Murrumbidgee | 3 | No |
| GALVINS | Murrumbidgee | 1 | No |
| GERMANS | Murrumbidgee | 3 | No |
| GILMORE | Murrumbidgee | 4 | No |
| GOCUP | Murrumbidgee | 1-4 | No |
| GREGADOO | Murrumbidgee | 1 | No |
| GURRUNDAH | Hawkesbury-Nepean | 2 | Yes |
| HEFFERNANS | Hawkesbury-Nepean | 1 | Yes |
| HONEYSUCKLE | Murrumbidgee | 4 | No |
| HUMES | Lachlan | 3 | No |
| JERRAWA | Lachlan | 5 | No |
| JOHNSONS | Murray | 1 | No |
| JUGIONG | Murrumbidgee | 4 | No |
| KEAJURA | Murrumbidgee | 6 | No |
| KERRAWARY | Hawkesbury-Nepean | 4 | Yes |
| KIALLA | Hawkesbury-Nepean | 3 | Yes |
| KILEY | Murrumbidgee | 2 | No |
| KILLIMICAT | Murrumbidgee | 5 | No |
| KYEAMBA | Murrumbidgee | 7 | No |
| LACHLAN | Lachlan | 6 | No |
| LITTLE GILMORE | Murrumbidgee | 2 | No |
| LOGBRIDGE | Murrumbidgee | 2-3 | No |
| LONG | Murrumbidgee | 4 | No |
| MANDYS | Murrumbidgee | 4 | No |
| MANTONS | Murrumbidgee | 2 | No |
| MCGREGORS | Murrumbidgee | 3 | No |
| MELAMALONG | Hawkesbury-Nepean | 1-4 | Yes |
| MERRILL | Lachlan | 1-4 | No |
| METTYS | Murrumbidgee | 2 | No |
| MIDDLE | Lachlan | 1 | No |
| MIDDLE | Hawkesbury-Nepean | 2-5 | Yes |
| MURRUMBIDGEE | Murrumbidgee | 9 | No |
| MYRTLE | Hawkesbury-Nepean | 4 | Yes |
| NACKI NACKI | Murrumbidgee | 4-5 | No |
| | | | |

Humelink | Surface Water and Groundwater Technical Addendum Report
Table C-1 Strahler order and location of named waterways intercepted by the amended transmission line corridor

| Waterway | Catchment | Strahler order | Within SDWC? |
|------------------|-------------------|----------------|--------------|
| NEW ZEALAND | Murrumbidgee | 1 | No |
| OAK | Murrumbidgee | 4-5 | No |
| O'BRIENS | Murrumbidgee | 1-6 | No |
| OOLONG | Lachlan | 4 | No |
| PEGMILL | Murrumbidgee | 2 | No |
| PEJAR | Hawkesbury-Nepean | 4 | Yes |
| PLAIN | Murrumbidgee | 3 | No |
| RIGHT ARM | Murrumbidgee | 4 | No |
| ROCKY | Murrumbidgee | 2 | No |
| RYANS | Hawkesbury-Nepean | 1 | Yes |
| SAILORS | Murrumbidgee | 3 | No |
| SAMS | Lachlan | 1 | No |
| SANDY | Murrumbidgee | 1-5 | No |
| SAW MILL | Murrumbidgee | 3-4 | No |
| SAWPIT | Murrumbidgee | 2-4 | No |
| SHARPS | Murrumbidgee | 3 | No |
| SHEEPYARD | Murrumbidgee | 4 | No |
| SOD HUT | Murrumbidgee | 2 | No |
| STEEVES | Hawkesbury-Nepean | 3 | Yes |
| STOCKMANS | Murrumbidgee | 3 | No |
| TARCUTTA | Murrumbidgee | 6 | No |
| TARLO | Hawkesbury-Nepean | 5 | Yes |
| THREE WATERHOLES | Murrumbidgee | 3 | No |
| TOMNEYS PLAIN | Murrumbidgee | 2-3 | No |
| TUMUT | Murrumbidgee | 8 | No |
| TURNERS | Murrumbidgee | 2 | No |
| TURRALLO | Hawkesbury-Nepean | 5 | Yes |
| TYWONG | Murrumbidgee | 4 | No |
| UMBANGO | Murrumbidgee | 7 | No |
| UNCLES | Murrumbidgee | 3 | No |
| WALKER | Murrumbidgee | 2 | No |
| WASHPEN | Murrumbidgee | 4 | No |
| WEIR | Murrumbidgee | 3 | No |
| WILLS | Hawkesbury-Nepean | 2 | Yes |

A.C Waterways

Humelink | Surface Water and Groundwater Technical Addendum Report
Table C-1 Strahler order and location of named waterways intercepted by the amended transmission line corridor

| Waterway | Catchment | Strahler order | Within SDWC? |
|-------------|-------------------|----------------|--------------|
| WILSONS | Murrumbidgee | 2 | No |
| WINDOWIE | Murrumbidgee | 3-4 | No |
| WOLLONDILLY | Hawkesbury-Nepean | 5 | Yes |
| WOOLGARLO | Murrumbidgee | 3 | No |
| YAVEN YAVEN | Murrumbidgee | 3-5 | No |
| YELLOW | Murrumbidgee | 3 | No |
| YELLOW CLAY | Murrumbidgee | 3 | No |
| YELLOWIN | Murrumbidgee | 3 | No |
| YORKERS | Murrumbidgee | 2 | No |

Attachment D Registered bores

| Bore ID | Easting | Northing | Final depth (m) | Mean Groundwater Elevation (mAHD) | Salinity description | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------------------|------------------|--------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|-------------|---------------------------------------|--|
| GW000925 | 540844 | 6103902 | 90.5 | Elevation (MAHD) | description | volume (ML/year) | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW000955 | 540284 | 6102980 | 86.9 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW005379 GW007787 | 566753 675064 | 6095923 6136852 | 43.9 32.6 | | | 0 | | Exploration Unknown | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW007809 | 670008 | 6138026 | 18.6 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW007814 | 671009 | 6137268 | 67.4 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW007851 | 665470 | 6142732 | 13 | 300.0 | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW008567 | 676646 | 6137223 | 21.9 | 504.4 | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW008569 GW008570 | 651450 657370 | 6135301 6144477 | 19.3 30.5 | 604.1 600.6 | | | | Unknown Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW008581 | 552416 | 6098020 | 56.7 | 306.6 | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW008838 | 647620 | 6143376 | 27.4 | 479.0 | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW009915 | 672210 | 6152563 | 22.6 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW010812 | 547325 | 6095676 | 11 | | Fresh water | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW011096 | 739352 | 6176901 | 30.5 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW011274 GW011519 | 546119 560512 | 6101967 6092054 | 7.6 46.6 | | Brackish water | 0 | | Unknown Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW011648 | 666083 | 6151236 | 24.7 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW011721 | 542008 | 6093114 | 45.7 | 228.9 | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW012486 GW012998 | 566879 696913 | 6095829 6153825 | 19.5 15.9 | 226.4 | Fresh water | 0 | | Water Supply Unknown | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW013490 | 566879 | 6095829 | 6.4 | | | 100 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
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| GW014677 | 547247 | 6100112 | 71.3 | 218.2 | Fresh water | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW014697 | 541713 | 6100386 | 12.2 | | | | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW014707 | 536524 | 6104752 | 76.2 | | Fresh water | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW014845 | 541194 | 6097308 | 67.1 | 230.3 | Fresh water | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW014955 GW014971 | 546251 630379 | 6092650 6138646 | 35.1 26.5 | | Brackish water Brackish water | | | Stock and Domestic Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW015385 | 620132 | 6106740 | 16.8 | 405.7 | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW015433 | 723990 | 6172691 | 22.1 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW015626 GW015774 | 543454 543964 | 6094432 6100776 | 27.7 34.7 | | | 0 | | Stock and Domestic Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW015794 | 691325 | 6153079 | 30.5 | 595.0 | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW015985 | 700110 | 6155729 | 23.5 | | Fresh water | 50 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016032 GW016258 | 549138 536550 | 6094649 6104844 | 45.1 48.8 | | | 0 | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016309 | 546345 | 6101688 | 9.1 | | Fresh water | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016310 | 547247 | 6100112 | 21.9 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016311 GW016313 | 546414 546983 | 6100301 6098050 | 9.8 18 | | | 0 | | Unknown Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW016314 | 547106 | 6102115 | 32.3 | 221.3 | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016402 | 540927 | 6094105 | 72.5 | 236.3 | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016406 GW016407 | 539107 545926 | 6099751 6093804 | 11.6 56.1 | | Brackish water | 0 | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW016410 | 541122 | 6092594 | 39.3 | 236.6 | Fresh water | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW016492 | 696613 | 6151704 | 25 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016538 | 699655 | 6155862 | 24.1 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW016883 | 673128 549045 | 6154056 | 24.7 25.3 | 563.8 | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW017453 GW017740 | 611671 | 6096129 6105801 | 36.6 | 266.0 | Fresh water | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW018040 | 612841 | 6104277 | 27.7 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW018364 GW018404 | 561430 558150 | 6093373 6089944 | 7.6 24.4 | 284.2 | | 0 | | Stock and Domestic Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW020822 | 671490 | 6145334 | 27.9 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW020826 | 675831 | 6150368 | 46 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW020963 GW020969 | 655719 659625 | 6137048 6144069 | 11.6 19.8 | 568.6 | Fresh water | | | Unknown Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW021596 | 670531 | 6145691 | 39 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW022393 | 532610 | 6106307 | 70.1 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW024605 | 659969 | 6140488 | 30.8 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW025450 | 547172 | 6095522 | 37.5 | | Fresh water | 34 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
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| GW042727 546361 6099809 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 | | | | | 270.7 | Fresh water | 308 | | | |
| GW043057 546261 6100025 45.7 | GW042727 | 546361 | 6099809 | | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW043058 545907 6099996 35.9 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043059 545832 6100212 54.2 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043356 606809 6090361 60.9 0 Exploration NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043867 546385 6099562 54.8 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043869 546885 6099561 27.5 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043870 546485 6099561 27.5 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043870 546485 60999561 27.5 0 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043871 546411 6099716 42.6 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043872 546713 6099468 42.6 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043904 672424 6147690 33.2 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 54619 6099891 7.6 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Suppl | | | | | | | | | | |
| GW043059 545832 6100212 54.2 54.2 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043217 569571 G087891 33.8 Fresh water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043867 546385 609809 6099361 60.9 0 Exploration NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043867 546385 6099562 54.8 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043868 545854 6099561 27.5 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043869 546688 6099561 27.5 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043870 546485 6099438 17.3 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043871 546411 6099716 42.6 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043872 546713 6099468 42.6 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW04284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099891 7.6 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044504 6147690 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 64440 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring | | | | | | | | | | |
| GW043217 569571 6087891 33.8 Fresh water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043356 606809 6090361 60.9 0 Exploration NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Exploration NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043867 546385 6099562 54.8 0 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043868 545854 6099596 34.4 0 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043869 546688 6099581 27.5 0 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043870 546688 6099488 17.3 0 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043871 546411 6099716 42.6 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043872 546713 6099468 42.6 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043872 546713 6099468 42.6 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099891 7.6 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144684 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30. | | | | | | | | | | |
| GW043867 546385 6099562 54.8 0 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 | GW043217 | 569571 | 6087891 | 33.8 | | Fresh water | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW043868 545854 6099596 34.4 0 0 Irrigation Murrumbidge Alluvial Groundwater Sources 2020 | | | | | | | | | | |
| GW043869 546688 6099561 27.5 0 1rrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043870 546485 6099438 17.3 0 0 1rrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043871 546411 6099716 42.6 0 1rrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043872 546713 6099468 42.6 0 1rrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043904 672424 6147690 33.2 0 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099841 7.6 0 Water Supply Murrumbidgee Alluvial Groundwater Sources 2020 GW044603 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW0446191 545996 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Moni | | | | | | | | | | |
| GW043870 546485 609948 17.3 0 1rrigation Murrumbidge Alluvial Groundwater Sources 2020 | | | | | | | | | | |
| GW043872 546713 6099468 42.6 0 Irrigation Murrumbidgee Alluvial Groundwater Sources 2020 GW043904 672424 6147690 33.2 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099841 7.6 0 Water Supply Murrumbidgee Alluvial Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044791 545986 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 | GW043870 | 546485 | 6099438 | 17.3 | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW043904 672424 6147690 33.2 0 Stock and Domestic NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW043917 543506 6100100 30.4 231.1 Brackish water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099841 7.6 0 Water Supply Murrumbidgee Alluvial Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044791 545986 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | | | | - | | | |
| GW043917 543506 6100100 30.4 231.1 Brackish water 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099891 7.6 0 Water Supply Murrumbidgee Alluvial Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044791 545986 6100766 Exploration Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | | | | - | | | |
| GW044284 573970 6088749 25 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044502 546159 6099891 7.6 0 Water Supply Murrumbidgee Alluvial Groundwater Sources 2020 GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW04471 545986 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | | 231.1 | Brackish water | | | | |
| GW044503 547220 6099897 47 2 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044791 545986 6100766 Exploration Murrumbidgee All July Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | GW044284 | 573970 | 6088749 | 25 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW044629 670283 6144648 83.8 525.3 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 GW044791 545986 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | | | | | | | |
| GW044791 545986 6100766 Exploration Murrumbidgee Alluvial Groundwater Sources 2020 GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | | 525.2 | | | | | |
| GW044813 694410 6156991 30.5 555.3 Brackish water 0 Monitoring NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | | | | 63.6 | 323.3 | | U U | | | |
| GW045042 605062 6103015 6.7 0 Water Supply NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 | GW044813 | 694410 | 6156991 | | 555.3 | Brackish water | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | GW045042 | 605062 | 6103015 | 6.7 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| Bore ID | Easting | Northing | Final depth (m) | Mean Groundwater Elevation (mAHD) | Salinity description | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------|------------------|--------------------|--------------------|-----------------------------------|-------------------------------|--------------------------------------|-------------|---------------------------------------|--|
| GW045459 | 675293 | 6141162 | 49.4 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW045886 GW045887 | 546253 546354 | 6098515 | 21.3 23.8 | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW045888 | 546430 | 6098546 6098607 | 42.1 | | | 0 | | Irrigation Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW045889 | 546557 | 6098637 | 54.9 | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW045890 GW045891 | 546506 546759 | 6098607 6098698 | 15.6 | | Frach water | 0 | | Irrigation Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW045891 GW046736 | 543645 | 6102749 | 36.5 42.7 | 229.9 | Fresh water | 0 | | Water Supply Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW047098 | 677100 | 6147570 | 31.5 | | Fresh water | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW047174 | 699934 | 6155856 | | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW047175 GW047202 | 700309 700082 | 6155508 6155637 | 61.5 | | Fresh water | 50 | | Water Supply Exploration | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW047202 GW047413 | 739515 | 6168417 | 41.2 | | Brackish water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW047880 | 546363 | 6100332 | 59 | | Fresh water | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW048080 GW048653 | 546658 676720 | 6098667 6142399 | 53 86.9 | | | 0 | | Irrigation Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW048895 | 598674 | 6094644 | 7.3 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW048930 | 716392 | 6167322 | 32 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW049310 | 546409 | 6099285 | | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW049314 GW049634 | 546083 618083 | 6099872 6099002 | 31.4 | | | 0 | | Unknown Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW049663 | 675776 | 6142171 | 91.5 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW049795 | 545372 | 6099198 | 7.9 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW050382 GW050501 | 668242 546059 | 6149770 6100088 | 61 15.2 | | | 0 | | Stock and Domestic Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050502 | 546464 | 6100240 | 59.4 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050503 | 546413 | 6100240 | 54.3 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050504 GW050505 | 546363 546337 | 6100209 6100209 | 57.6 53.3 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050505 GW050506 | 546312 | 6100209 | 42.7 | | | | | Irrigation Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050507 | 546160 | 6100149 | 18.3 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050508 | 546261 606837 | 6100179 6097047 | 30.5 | | Fresh | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW050964 GW051058 | 610574 | 6098820 | 30 24.4 | | Fresh water | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW051300 | 567693 | 6093297 | 7 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW051819 | 604539 | 6071129 | 49 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW051842 GW051843 | 542538 546269 | 6093112 6091861 | 15.2 | | | 0 | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW051870 | 603904 | 6088084 | 15.2 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW052227 | 757620 | 6183104 | 94.5 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW052351 GW052625 | 570383 665188 | 6085204 6139748 | 5.5 60 | 253.0 | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW052880 | 669908 | 6151741 | 53.5 | | Fresh water | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW052982 | 676805 | 6142860 | 61 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW053088 | 600376 | 6070592 | 3.6 54 | | Fresh water | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW054033 GW054246 | 699533 741185 | 6157282 6167911 | 68.6 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Greater Metropolitan Region Groundwater Sources 2023 |
| GW054368 | 756318 | 6174813 | 39.6 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW054380 | 541373 | 6092254 | 18.3 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW054827 GW054861 | 691570 668917 | 6155078 6146399 | 32.6 22.9 | | Brackish water Fresh water | 0 | | Water Supply Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055063 | 665877 | 6151276 | 36.6 | | Tresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055162 | 675622 | 6142081 | 54 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055408 GW055438 | 665903 600581 | 6151132 6070897 | 24.4 21.3 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055511 | 606436 | 6088763 | 45.7 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055660 | 675668 | 6140539 | 31 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW055698 GW056041 | 599608 665845 | 6071833 6150818 | 15.2 53.3 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056065 | 607443 | 6101801 | 33.3 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056131 | 675708 | 6139953 | 36 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056176 GW056231 | 760390 676762 | 6182626 6136635 | 22.9 51 | | Fresh water | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056339 | 676848 | 6142458 | 91.4 | | i resii watei | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056380 | 674526 | 6139236 | 18 | 508.5 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056569 GW056619 | 606549 673247 | 6079117 6154948 | 45.7 24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW056977 | 568203 | 6097237 | 61 | | | 0 | | Irrigation Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057174 | 606459 | 6082138 | 36 | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057371 | 739775 | 6169582 | 22.9 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW057440 GW057454 | 601518 603625 | 6091501 6085838 | 42 66 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057455 | 603602 | 6085992 | 20 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057693 | 606670 | 6089284 | 36 | | Front | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057841 GW057844 | 672766 605602 | 6155080 6073613 | 43.6 2 | | Fresh water | 0 | | Irrigation Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW057986 | 674965 | 6148936 | 49.7 | | Brackish water | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058114 | 602927 | 6084398 | 24 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058178 GW058194 | 722984 676883 | 6172222 6140300 | 54.9 21.3 | | | 0 | | Irrigation Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058338 | 666575 | 6151107 | 24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058430 | 692242 | 6154324 | 30.4 | | Brackish water | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058482 GW058523 | 639487 546883 | 6141470 6098266 | 42 33.5 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW058526 | 611223 | 6098165 | 6 | | | 0 | | Unknown | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW058591 | 666302 | 6151349 | 30.4 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058727 GW058744 | 603550 665420 | 6085870 6138511 | 36 91.4 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058744 GW058817 | 666575 | 6151641 | 40 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW058904 | 666382 | 6151257 | 45.7 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW059276 | 570684 | 6084955 | 6 | 242.7 | Fresht | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW059368 GW059380 | 546862 538080 | 6098944 6108042 | 15.2 61 | | Fresh water | 0 | | Irrigation Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW059402 | 546786 | 6098975 | 46.5 | | Fresh water | 19 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW059473 | 598781 | 6065371 | 4 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW059663 GW059664 | 546812 546837 | 6099036 6098975 | 42 46.5 | | | | | Irrigation Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW059665 | 546887 | 6098974 | 46.5 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| | 546761 | 6098944 | 46 | | | | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW059666 | | _ | | | | | | | |
| | 666152 555897 | 6151164 6093039 | 47 45 | 286.5 | | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| Bore ID | Easting | Northing | Final depth (m) | Mean Groundwater Elevation (mAHD) | Salinity description | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------|------------------|--------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|-------------|---------------------------------|--|
| GW059774 | 768855 | 6186487 | 45.7 | | Fresh water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW059781 GW060453 | 607630 676455 | 6099934 6147089 | 25 40 | | Brackish water Brackish water | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW060687 | 675316 | 6141413 | 24 | | Didekish Water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW060787 | 666982 | 6151797 | 38.1 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW060798 GW060994 | 661136 699349 | 6147679 6155838 | 30 48.1 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW061000 | 666467 | 6151666 | 26.2 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW061013 GW061024 | 608061 680954 | 6097926 6154830 | 33 18 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW061024 GW061065 | 531832 | 6107789 | 10 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW061213 | 646679 | 6140125 | 23.8 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW061646 GW061655 | 676557 547893 | 6136577 6093270 | 36 71.6 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW062297 | 676600 | 6142771 | 90 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW062559 | 675452 | 6141191 | 24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW062650 GW062823 | 666416 666978 | 6151365 6151581 | 45.7 38.1 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW063548 | 535656 | 6108945 | 18 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW063608 | 607623 | 6078242 | 36.6 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW064063 GW064210 | 604598 739266 | 6087028 6178537 | 54 22.5 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Greater Metropolitan Region Groundwater Sources 2023 |
| GW064218 | 547918 | 6093239 | 59.4 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW064229 | 740353 | 6172219 | 41.1 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW064251 GW064376 | 677976 739702 | 6140310 6175658 | 75.6 41.1 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Greater Metropolitan Region Groundwater Sources 2023 |
| GW064422 | 541373 | 6092254 | 36.7 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW064581 | 606307 | 6099210 | 24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW064835 GW064872 | 739297 546488 | 6177735 6099993 | 24 47 | | Fresh water | 143 | | Water Supply Irrigation | Greater Metropolitan Region Groundwater Sources 2023 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW064941 | 676740 | 6136851 | 40 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW065218 GW065480 | 607452 | 6095622 | 18 5 | | | 0 6 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW065480 GW065565 | 611414 739806 | 6095205 6166868 | 57 | | | ь | | Irrigation Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 Greater Metropolitan Region Groundwater Sources 2023 |
| GW065566 | 739829 | 6166744 | 57 | | | | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW066295 GW066323 | 671808 585654 | 6140582 6090987 | 48.1 26 | | | 0 | | Water Supply Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066478 | 674380 | 6143839 | 40 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066480 | 676826 | 6146589 | 32 | | Fresh water | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066483 GW066487 | 675008 675684 | 6147209 6140046 | 72 60 | | Fresh water | 0 | | Unknown Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066492 | 675109 | 6143170 | 29 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066498 | 638615 | 6140897 | 139 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW066768 GW068045 | 610335 612672 | 6097929 6096626 | 30 6 | | | 0 | | Water Supply Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW068387 | 717341 | 6168931 | 27.4 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW068577 | 586661 | 6088020 | 26 | | | 1 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW068774 GW068808 | 535960 604425 | 6102875 6068750 | 32.6 37 | | Brackish water Fresh water | 0 | 1.39 | Water Supply Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW068952 | 608303 | 6101251 | 3, | | Tresii water | <u> </u> | 1.05 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW069088 | 758848 | 6182191 | 40 | | | | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW069176 GW070051 | 600778 701743 | 6092363 6155909 | 30 42 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW070239 | 674506 | 6142195 | 25.4 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW070426 GW070627 | 681691 615259 | 6148343 6097591 | 33 32 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW070627 GW070628 | 615789 | 6097591 | 32 | | | U | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW071514 | 546766 | 6098259 | 38.8 | | Fresh water | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW072077 GW072719 | 690322 673992 | 6148877 6152542 | 24.3 24 | | | 0 | | Unknown Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW072882 | 761766 | 6180251 | 61 | | Fresh water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW072886 | 725329 | 6167075 | 54 | | | 0 | | Irrigation | Greater Metropolitan Region Groundwater Sources 2023 |
| GW085030 GW085031 | 670813 670814 | 6153784 6153784 | 9.28 3.78 | | | | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW085034 | 669313 | 6153584 | | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW085035 | 699313 | 6153684 | | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW085036 GW085040 | 699313 673513 | 6154284 6151884 | 4.9 | | | | | Unknown Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW100202 | 674913 | 6138900 | 33 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW100992 | 728264 | 6167376 | 41 | | Fresh water | 0 | 1.25 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW101998 GW103359 | 764008 674346 | 6186992 6143927 | 42.7 5.7 | | | 0 | | Water Supply Monitoring | Greater Metropolitan Region Groundwater Sources 2023 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW103374 | 674293 | 6143880 | 3.3 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW103375 GW103376 | 674363 674375 | 6143904 6143918 | 7 6.9 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW103376 GW103478 | 730816 | 6165534 | 37 | | | 0 | | Monitoring Water Supply | Greater Metropolitan Region Groundwater Sources 2020 |
| GW104281 | 754026 | 6172818 | 55 | | Fresh water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW104729 GW104918 | 763011 737349 | 6186236 6177535 | 28 37 | | | 0 | | Stock and Domestic Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW104918 GW105023 | 737349 | 6178606 | 30 | | | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW105359 | 725231 | 6170696 | 68 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW105362 GW105364 | 731325 741651 | 6172428 6175308 | 80 73 | | | 0 | | Water Supply Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW105570 | 765045 | 6188826 | 180 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW105640 | 757290 | 6173316 | 138 | | Fresh water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW105829 GW105857 | 731197 730845 | 6175065 6174206 | 82 104 | | | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW105837 GW106230 | 771669 | 6189213 | 73 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW106523 | 757397 | 6182438 | 30 | | French : | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW106639 GW106749 | 742755 731495 | 6178567 6165475 | 54 200 | | Fresh water | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW106749 GW106750 | 741310 | 6177813 | 102 | | Fresh water | 0 | | Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW106782 | 233285 | 6185110 | 79.5 | | Fresh water | 0 | | Irrigation | Greater Metropolitan Region Groundwater Sources 2023 |
| GW106818 GW107043 | 752877 752730 | 6180173 6181297 | 97 54 | | | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW107271 | 740795 | 6178491 | 70 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW107503 | 726004 | 6169352 | 36 | | | 0 | 2.5 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW107610 GW108079 | 762440 726809 | 6180417 6169465 | 48 48 | | | 0 | 2.5 | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| | 233200 | 6184732 | 103 | | | 0 | | Irrigation | Greater Metropolitan Region Groundwater Sources 2023 |
| GW108751 GW108818 | 760444 | 6184429 | 66 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |

| GW109133 GW109146 GW109188 GW109192 GW109289 | 726840 | | (m) | | | | Yield (L/s) | | Water Sharing Plan |
|--|--------------------|----------------------|---------------|------------------|-------------------------------|-----------------------|-------------|---------------------------------------|--|
| GW109188 GW109192 | | 6169061 | 48 | Elevation (mAHD) | description Fresh water | Volume (ML/year) 0 | 0.563 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW109192 | 730146 233598 | 6168721 | 54 | | Farab | 0 | 0.875 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW109289 | 233598 | 6182712 6184298 | 85 103 | | Fresh water Fresh water | 0 | | Irrigation Irrigation | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| | 725304 | 6167598 | 66 | | Fresh water | 0 | 0.375 | Irrigation | Greater Metropolitan Region Groundwater Sources 2023 |
| GW109931 GW110438 | 740427 727941 | 6174155 6169047 | 180 60 | | Brackish water Fresh water | 0 | 0.3 | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW110438 | 739943 | 6174639 | 132 | | rresii watei | 0 | 0.23 | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW110806 | 734948 | 6174474 | 132 | | Fresh water | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW111154 GW111157 | 743953 732714 | 6176904 6167147 | 48 78 | | Fresh water | 0 | | Stock and Domestic Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW111210 | 740260 | 6172000 | 54 | | | 0 | 0.075 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW111478 | 752971 | 6180562 | 90 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW111640 GW111734 | 741158 728502 | 6167735 6172920 | 46 167 | | | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW111759 | 741660 | 6167599 | 78 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW111761 | 741734 | 6178228 | 20 | | | 0 | 0.040 | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW111777 GW112354 | 730752 752823 | 6170563 6174348 | 50 48 | | | 0 | 0.019 | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW112472 | 755076 | 6183154 | 60 | | | 0 | | Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 |
| GW112522 GW114815 | 752901 733433 | 6173477 6173576 | 42 56 | | | 0 | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW114818 | 769555 | 6189950 | 80 | | | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW115438 | 758655 | 6182321 | 38 | | | | | Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW115701 GW115756 | 760971 198023.4 | 6180642 6175130.6 | 18 60 | | Fresh water | | 2.125 | Stock and Domestic Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 Greater Metropolitan Region Groundwater Sources 2023 |
| GW115730 | 754167 | 6171873 | 110 | | | | | Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 |
| GW116184 | 725278 | 6170573 | 54 | | | | | Stock and Domestic | Greater Metropolitan Region Groundwater Sources 2023 |
| GW116634 GW400001 | 233093.1 546313 | 6184946.9 6100333 | 126 48 | | | 336 | | Stock and Domestic Irrigation | Greater Metropolitan Region Groundwater Sources 2023 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400001 GW400026 | 590479 | 6085208 | 61 | | Fresh water | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400059 | 610108 | 6097932 | 31 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400063 GW400105 | 674185 546591 | 6152095 6100270 | 24 60 | | | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400139 | 608683 | 6092927 | 8.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400140 | 608708 | 6092896 | 3 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400141 GW400142 | 608733 608682 | 6092926 6092834 | 9 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400143 | 608707 | 6092834 | 11.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400144 | 608733 608731 | 6092865 | 11.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400145 GW400146 | 608757 | 6092741 6092772 | 12 5 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400147 | 608782 | 6092802 | 13.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400148 GW400149 | 608816 608664 | 6092646 6092517 | 13.5 15.1 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400149 GW400150 | 608657 | 6092317 | 14.6 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400151 | 608591 | 6092552 | 15.2 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400152 GW400202 | 608754 549207 | 6092818 6088402 | 30 36 | | Fresh water Fresh water | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400308 | 547028 | 6090799 | 8.8 | | rresii watei | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400315 | 549514 | 6088985 | 7.95 | | | 0 | | Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400317 GW400319 | 549714 550114 | 6089085 6088885 | 5.57 5.13 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400320 | 549414 | 6092885 | 7.95 | 247.1 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400322 | 549114 | 6092885 | 10.05 | 236.2 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400323 GW400324 | 548814 548614 | 6093085 6093585 | 9.93 10.4 | 231.6 230.4 | | 0 | | Monitoring Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400331 | 553414 | 6098385 | 4.92 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400381 | 591113 | 6085184 | 70.1 | | | 30 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400391 GW400397 | 612367 549155 | 6070449 6088426 | 54.8 36 | | Fresh water | 90 | | Water Supply Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400409 | 603620 | 6084969 | 24 | | | 0 | 2 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400416 GW400426 | 676293 548812 | 6153256 6090217 | 55.8 37.5 | | | 100 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400470 | 535159 | 6109491 | 13 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400471 | 534762 | 6108454 | 30 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400476 GW400477 | 533382 534331 | 6107617 6107559 | 11.8 5.91 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400477 | 534333 | 6107526 | 12.41 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400479 | 534914 | 6107538 | 5.13 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400480 GW400481 | 534899 535220 | 6107584 6107591 | 12.3 5.84 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400482 | 535246 | 6107591 | 11.96 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400483 | 534590 | 6106851 | 5.04 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400484 GW400485 | 534491 535116 | 6101917 6106698 | 12.01 5.91 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400486 | 535116 | 6106698 | 12.2 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400487 | 534380 | 6106085 | 5.87 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400488 GW400509 | 534380 562243 | 6106085 6097711 | 12.4 67 | | Fresh water | 0 | | Monitoring Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400510 | 561969 | 6098329 | 61 | | Fresh water | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400535 | 610394 | 6092382 | 26 | 223.9 | | 0 | | Water Supply Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400569 GW400570 | 567226 565634 | 6095878 6092577 | 14 6.1 | 225.9 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400571 | 565562 | 6092725 | 5.2 | 247.3 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400572 GW400573 | 565560 565560 | 6092852 6092853 | 4.85 2.27 | 246.3 245.9 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400573 GW400574 | 565480 | 6092844 | 5 | 246.6 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400575 | 565419 | 6092841 | 10.8 | 243.2 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400576 GW400577 | 565875 565875 | 6093226 6093225 | 3 1.95 | 237.0 237.2 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400577 GW400578 | 565921 | 6093208 | 11.3 | 237.2 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400579 | 566018 | 6093369 | 6.8 | 231.8 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400580 GW400581 | 566193 566193 | 6093305 6093306 | 4.2 1.9 | 233.8 231.5 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400581 GW400582 | 565765 | 6093186 | 2.3 | 201.0 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400583 | 565684 | 6092979 | 4.25 | 244.8 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400586 GW400587 | 573163 573198 | 6087985 6088155 | 3.68 4.85 | 294.9 299.9 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400588 | 573193 | 6088160 | 6.65 | 298.8 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400589 | 572913 | 6087835 | 8.46 | 268.7 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| GW400590 GW400591 | 572777 | | | Elevation (mAHD) | description | Volume (ML/vear) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------|------------------|--------------------|---------------|------------------|--------------|------------------|---------------|----------------------------------|--|
| | | 6088026 | (m) 4.8 | 272.4 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | 572773 | 6088026 | 8.4 | 272.2 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400592 GW400593 | 572713 569595 | 6087685 6090094 | 5.22 4.9 | 262.6 243.8 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400594 | 569562 | 6090586 | 6.7 | 237.0 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400595 | 569562 | 6090590 | 5.4 | 237.0 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400596 | 569932 | 6090382 | 6.7 | 226.7 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400597 GW400598 | 569185 569156 | 6090359 6089792 | 9.05 7 | 240.6 | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400599 | 568565 | 6089798 | 8.1 | 254.2 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400600 | 568203 | 6089498 | 7.4 | 265.1 | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400607 | 546863 | 6099065 | 46.5 | | Fresh water | 19 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400608 GW400612 | 546863 608771 | 6099065 6092814 | 34 24 | | Fresh water | 0 | | Unknown Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400613 | 608771 | 6092809 | 24 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400617 | 566678 | 6095760 | 20 | | | 0 | | Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400659 GW400675 | 672300 602133 | 6146707 6066694 | 50 93 | | Fresh water | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400676 | 602143 | 6066619 | 93 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400698 | 672154 | 6151105 | 40 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400704 | 564352 | 6095848 | 30 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400716 GW400723 | 623788 674735 | 6105634 6143799 | 30 66.6 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400729 | 674743 | 6141952 | 56 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400733 | 545677 | 6101736 | 57.8 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400734 | 606550 | 6082496 | 54.9 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400738 GW400754 | 567699 575311 | 6084023 6084512 | 84 10 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400755 | 543629 | 6099357 | 33 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400757 | 554395 | 6095922 | 36 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400797 | 609872 | 6097257 | 61.8 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400798 GW400802 | 610272 555973 | 6096882 6092997 | 43.5 60 | | | 0 | 1.25 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400802 GW400812 | 570211 | 6091090 | 5 | | | 0 | 1.25 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400817 | 547405 | 6096519 | 13 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW400821 | 675396 | 6141314 | 20 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400833 GW400840 | 605588 668162 | 6086134 6149514 | 6 48.78 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400850 | 608439 | 6097829 | 25.3 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400851 | 606295 | 6085375 | 25.3 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400870 | 678238 | 6140934 | 48 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400882 GW400952 | 669332 601063 | 6153757 6076334 | 90 | | | 0 | | Unknown Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW400971 | 575563 | 6082104 | 4.2 | | Fresh water | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401008 | 597665 | 6085473 | 49 | | | 15 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401022 | 546713 | 6098685 | 37 | | Fresh water | 248 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401031 GW401049 | 540371 600451 | 6105475 6094539 | 125 32 | | | 0 | | Stock and Domestic Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401111 | 678050 | 6139039 | 53 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401130 | 608177 | 6089543 | 43.5 | | | 0 | 3 | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401131 | 607798 | 6089517 | 10 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401132 GW401146 | 607783 590713 | 6089517 6085384 | 46 192 | | | 0 | 1.8 | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401145 | 543974 | 6102686 | 15.29 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401156 | 543974 | 6102686 | 5.7 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401157 | 544503 | 6102437 | 5.52 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401158 GW401159 | 544455 544455 | 6102899 6102899 | 14.58 5.28 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401160 | 544155 | 6103486 | 6.01 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401162 | 544859 | 6102681 | 4.66 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401168 | 544155 | 6103486 | 6.12 | | | 0 | 1.20 | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401200 GW401201 | 675113 573280 | 6141084 6087646 | 30 31 | | Fresh water | 0 | 1.29 0.625 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401218 | 675303 | 6141559 | 18.6 | | Tresh Water | 0 | 0.023 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401219 | 603738 | 6086409 | 21.34 | | Fresh water | 0 | 0.38 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401273 | 544363 | 6098835 | 54 | | | 180 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401274 GW401336 | 544363 675263 | 6098685 6141084 | 45 36.36 | | Fresh water | 180 | 1.8 | Irrigation Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401342 | 600663 | 6092434 | 30 | | Tresii Water | 0 | 1.0 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401360 | 612888 | 6096459 | 7.2 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401380 GW401381 | 600463 600944 | 6075634 6074719 | 73 70 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401381 GW401384 | 574538 | 6084935 | 70 | | | 0 | | Monitoring Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401385 | 574938 | 6082984 | 31 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401400 | 535663 | 6103910 | 7.3 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401401 GW401402 | 535663 535663 | 6103910 6103910 | 5 9 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401402 GW401403 | 535663 | 6103910 | 9 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401404 | 535663 | 6103910 | 8.2 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401405 | 535663 | 6103910 | 13.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401406 GW401407 | 535663 535663 | 6103910 6103910 | 10.3 12.7 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401407 GW401408 | 535663 | 6103910 | 9.6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401409 | 535663 | 6103910 | 9.7 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401410 | 535663 | 6103910 | 11.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401411 GW401412 | 535663 535663 | 6103910 6103910 | 8 16 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401412 GW401413 | 535663 | 6103910 | 8.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401414 | 535663 | 6103910 | 8.7 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401415 | 535663 | 6103910 | 8.6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401416 | 535663 | 6103910 | 11.6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401417 GW401418 | 535663 535663 | 6103910 6103910 | 8 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401419 | 535663 | 6103910 | 8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401420 | 535663 | 6103910 | 8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401421 | 535663 | 6103910 | 8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401422 GW401423 | 535663 535663 | 6103910 6103910 | 8.15 8 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | 535663 | 6103910 | 8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401424 | 333003 | | | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | 535663 535663 | 6103910 6103910 | 8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| Bore ID | Easting | Northing | Final depth | Mean Groundwater | Salinity | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------|------------------|--------------------|---------------|------------------|----------------|--------------------------------------|-------------|---------------------------------|--|
| GW401427 | 535663 | 6103910 | (m) 8 | Elevation (mAHD) | description | O Olume (IVIL/year) | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401431 | 568063 | 6095185 | 42 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401488 | 605638 | 6086134 | 5.5 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401495 GW401527 | 608963 564463 | 6097634 6094185 | 41.45 14.5 | | | 0 | | Water Supply Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401557 | 604421 | 6090515 | 31 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401558 | 604421 | 6090515 | 10.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401559 | 603446 | 6090514 | 31 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401560 GW401561 | 603529 604482 | 6093602 6092029 | 31 18 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401562 | 603455 | 6092047 | 31 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401563 | 674330 | 6143979 | 5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401564 | 674319 | 6143930 | 5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401565 GW401566 | 674310 674305 | 6143885 6143869 | 5.3 5.1 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401567 | 674455 | 6144012 | 6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401568 | 674407 | 6143896 | 5.8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401569 | 674419 | 6143836 | 4.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401570 GW401571 | 674339 674362 | 6143857 6143902 | 4.2 5.8 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401572 | 674347 | 6143875 | 4.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401573 | 674362 | 6143878 | 5.3 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401619 | 602563 | 6066584 | 66.7 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401642 GW401643 | 566930 566917 | 6095944 6095952 | 5 4.5 | | | 0 | | Monitoring Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401644 | 566874 | 6095967 | 4 | | | 0 | | Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401676 | 676563 | 6142784 | 85.1 | | Brackish water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401682 | 599280 | 6065444 | 4.8 | | | 0 | | Irrigation Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401684 GW401690 | 608303 666063 | 6101251 6150984 | 79.24 27 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401030 | 546913 | 6098945 | 34 | | Fresh water | 19 | | Unknown | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401717 | 613063 | 6098484 | 7 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401771 | 600383 | 6070594 | 3 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401832 GW401833 | 678037 678400 | 6138152 6138594 | 55 | | | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401848 | 677643 | 6139565 | 78 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401861 | 548698 | 6094000 | 48.76 | | | 0 | 1.77 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401883 | 677790 | 6143200 | 111 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401888 GW401892 | 565645 677571 | 6094581 6138844 | 13 104 | | | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401913 | 609827 | 6096854 | 45.4 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401914 | 603711 | 6100765 | 50 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401915 | 609669 | 6098350 | 56 | | | 0 | | Stock and Domestic | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW401924 GW401932 | 674291 674871 | 6142845 6141494 | 110 60.8 | | | 0 | | Water Supply Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401950 | 675484 | 6143796 | 80 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401958 | 606302 | 6083710 | 2 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401961 | 605280 | 6071371 | 191 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401962 GW401965 | 595370 562695 | 6067350 6093711 | 80 | | | 0 | | Unknown Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW401970 | 678194 | 6139490 | 90 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402021 | 576293 | 6081328 | 7 | | | 27 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402082 | 629045 | 6123416 | 54.86 | | | _ | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402089 GW402090 | 675224 675733 | 6143270 6145145 | 66 36 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402091 | 675478 | 6145170 | 48 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402107 | 568729 | 6097046 | 146 | | | 44 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402120 | 595310 | 6084981 | 130 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402121 GW402142 | 595281 676487 | 6084985 6142134 | 18 30 | | Fresh water | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402153 | 611402 | 6095376 | 2.8 | | Tresii water | 36 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW402171 | 608073 | 6078438 | 76 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402183 | 675160 | 6141231 | 38 | | | 0 | 1.6 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402188 GW402190 | 598901 666531 | 6085136 6151621 | 51 30 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402197 | 676878 | 6142032 | 60 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402198 | 675459 | 6143679 | 92 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402224 | 608673 | 6092534 | 12 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402226 GW402227 | 676578 676946 | 6136673 6136595 | 36 36 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402230 | 672890 | 6146812 | 36 | | | 0 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402237 | 677229 | 6148014 | 78.8 | | | 0 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402270 | 672754 | 6142438 | 60 | | | 0 | 0.4 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402279 GW402281 | 675166 674994 | 6141088 6141049 | 74 49 | | | 0 | 0.4 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402281 | 674970 | 6141028 | 90 | | | 0 | 5.555 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402304 | 675488 | 6140982 | 37 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402324 | 675917 | 6150042 | 48 | | | 0 | 1.77 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402325 GW402326 | 674823 676789 | 6142135 6142111 | 57 83 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402327 | 676445 | 6142746 | 47 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402335 | 576315 | 6081328 | 6.4 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402337 | 549136 | 6088441 | 42 | | | 90 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW402340 GW402354 | 613024 677450 | 6096371 6143849 | 26 99 | | | 0 | | Water Supply Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402356 | 544648 | 6101591 | 13.9 | 211.5 | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402357 | 544640 | 6101959 | 6.3 | 208.2 | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402358 | 544640 | 6101961 | 13.8 | 208.3 | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402359 GW402360 | 544610 544596 | 6102179 6102296 | 9.45 | 208.9 | | | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402360 GW402361 | 544260 | 6101850 | 17 | 214.3 | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402379 | 674839 | 6143166 | 61 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402386 | 670057 | 6151030 | 40 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402392 GW402416 | 612810 675237 | 6102451 6142367 | 52 78 | | Fresh water | 0 | 2.5 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402416 GW402419 | 569403 | 6098792 | 40.53 | | | 44 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402436 | 677210 | 6140742 | 55 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402437 | 677071 | 6140729 | 72 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402442 GW402452 | 576514 672785 | 6079752 6142293 | 7 92 | | | 0 | | Stock and Domestic Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW402452 GW402462 | 676396 | 6143166 | 65 | | | 0 | | Water Supply Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | | | | | | | | | |

| The color | | | | Final depth | Mean Groundwater | Salinity | Licenced Extraction | | | |
|--|----------|---------|----------|-------------|------------------|-------------|---------------------|-------------|------------|--|
| Section Sect | Bore ID | Easting | Northing | (m) | Elevation (mAHD) | description | Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
| Company | | | | | | | | | | |
| Company | | | | | | | | | | |
| March Marc | | | | | | | 0 | | Monitoring | |
| Company Comp | | | | | | Fresh water | | | | |
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| Company | | | | | | | | | | |
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| Security Company Com | | | | | 431.3 | | | | | |
| OPENING 1987 | | | | | | | | | | |
| Security Company Com | | | | | | | | | | |
| Committed Comm | | | | 95 | | | | 1.5 | | |
| 6.000000000000000000000000000000000000 | GW402623 | | 6095946 | 5.75 | | | 0 | | | Murrumbidgee Alluvial Groundwater Sources 2020 |
| DECEMBER CANADA | | | | | | | | | | |
| Committed Comm | | | | | | | | | | |
| CHESTED CONTROL CONT | | | | | | Fresh water | 0 | 1.1 | | |
| Committed Comm | | | | | | Fresh water | | 0.23 | | |
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| Control Cont | | | | | | | | | | |
| Octobable 0.0015 0.00160 0.1 | | | | | | | | | | |
| Montable | GW402833 | 676151 | 6149585 | | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| Probability Company | | | | | | | | 13.638 | | |
| GAMADISTON GAM | | | | | | Fresh water | | 0.7 | | |
| GMASQUAD 97799 | | | | | | | | ŭ., | | |
| Month-Property Month-Property Month-Property Month-Property Month-Property Month-Property Month-Property Month-Property Month Mont | | | | 6.4 | | | - | | | |
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| Content Cont | | | | 13 | | | | | | , and the second |
| Convolution | | | | | | | | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| CAMADIDATION CAMA | | | | 15 | | | - | | | |
| GWMS9175 G07244 17.5 0 Monttoring SWM Murray During Basin Pactured Role Groundwate Source 2000 CWMS9175 G07255 12.5 0 0 Monttoring SWM Murray During Basin Pactured Role Groundwate Source 2000 CWMS9175 G07257 17.5 0 0 Monttoring SWM Murray During Basin Pactured Role Groundwate Source 2000 CWMS9175 G07257 17.5 0 0 Monttoring SWM Murray During Basin Pactured Role Groundwate Source 2000 CWMS9175 G07257 21 0 0 Monttoring SWM Murray During Basin Factured Role Groundwate Source 2000 CWMS9175 G07257 21 0 0 Monttoring SWM Murray During Basin Factured Role Groundwate Source 2000 CWMS9175 G07257 G07257 | | | | 41 | | | - | | | |
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| GW403514 542247 6099514 33 0 Water Supply GW403545 676774 6141671 56 0 Water Supply GW403553 674953 6141031 43 Saline water 0 10 Water Supply GW403566 568618 6087422 37 Fresh water 55 Unknown GW403621 585472 6090821 7 30 Unknown GW403677 604920 6073397 120 Fresh water 30 Unknown GW403678 603994 6072964 42 30 Irrigation GW403679 605544 6068740 90 Brackish water 19 Unknown GW403703 665754 6151705 81 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403545 676774 6141671 56 0 Water Supply GW403553 674953 6141031 43 Saline water 0 10 Water Supply GW403586 58618 6087422 37 Fresh water 55 Unknown GW403621 585472 6090821 7 30 Unknown GW403642 577057 6081054 168 72 Unknown GW403677 604920 6073397 120 Fresh water 30 Unknown GW403678 603994 6072964 42 30 Irrigation GW403679 605544 6068740 90 Brackish water 19 Unknown GW403703 665754 6151705 81 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403586 568618 6087422 37 Fresh water 55 Unknown GW403621 585472 6090821 7 30 Unknown GW403642 577057 6081054 168 72 Unknown GW403677 604920 6073397 120 Fresh water 30 Unknown GW403678 603994 6072964 42 30 Irrigation GW403679 605544 6068740 90 Brackish water 19 Unknown GW403703 665754 6151705 81 0 Water Supply GW403727 605065 6102722 85 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403621 585472 6090821 7 30 Unknown GW403642 577057 6081054 168 72 Unknown GW403677 604920 6073397 120 Fresh water 30 Unknown GW403678 603994 6072964 42 30 Irrigation GW403679 605544 6068740 90 Brackish water 19 Unknown GW403703 665754 6151705 81 0 Water Supply GW403727 605065 6102722 85 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
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| GW403679 605544 6068740 90 Brackish water 19 Unknown GW403703 665754 6151705 81 0 Water Supply GW403727 605065 6102722 85 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403703 665754 6151705 81 0 Water Supply GW403727 605065 6102722 85 0 Water Supply GW403728 605682 6103144 78 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403728 605682 6103144 78 0 Water Supply | |
| | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403730 002376 0003700 00 HESHWALEI 12 1 HIMINWII | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403745 575392 6079589 5.7 30 Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403749 577057 6081138 152 72 Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403750 577032 6080857 152 72 Unknown GW403755 677804 6143109 65 6 Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403755 677804 6143109 65 6 Unknown GW403790 603157 6094345 80 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403791 603154 6094345 50 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403792 602923 6093972 61.8 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403793 603419 6094098 56 0 Monitoring GW403794 603720 6093728 92 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403795 604040 6093355 50 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403796 603179 6092150 50 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403797 603419 6091964 43 Freshwater 0 Monitoring GW403798 603838 6092243 56 Freshwater 0 1.4 Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403799 604129 6092115 56 Fresh water 65 6 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403800 604103 6091694 50 Fresh water 65 6 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403801 604410 6091557 56 Fresh water 65 1.5 Monitoring GW403802 604454 6091928 50 Fresh water 65 1.5 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403802 604454 6091928 50 Freshwater 65 1.5 Monitoring GW403803 607795 6092778 44 0 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403804 608203 6092460 30 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403810 605405 6086837 6 0 Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403816 674178 6149836 61 0 1.3 Water Supply GW403831 674576 6140748 120 100 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403838 531332 6107089 10 Brackish water 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403839 531895 6107404 15.3 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403840 532232 6106662 8.6 Brackish water 0 Monitoring GW403841 533938 6106972 9 Brackish water 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403843 676987 6140102 120 Fresh water 70 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403844 676991 6139967 110 Fresh water 70 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403853 600118 6064585 85 0 Water Supply GW403871 671180 6137988 83 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403901 676994 6141697 81 Fresh water 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403939 675931 6150456 80 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW403944 613484 6096987 55 0 Water Supply GW403980 671437 6152260 65 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404017 676344 6143227 70 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404022 566947 6095951 5.5 Brackish water 0 Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404023 566917 6095952 5.5 Brackish water 0 Monitoring GW404024 566923 6095934 5.45 Brackish water 0 Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404025 543250 6103100 15 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404026 543216 6103201 6 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404087 678271 6137874 120 0 Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404110 675369 6142476 56 0 Water Supply GW404111 567939 6095190 70 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404124 571649 6083808 73.15 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404128 557321 6094091 61 0 Irrigation GW404132 675117 6140972 43 Saline water 0 50 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404132 675117 6140972 43 Saline water 0 50 Water Supply GW404178 532491 6102126 30 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404203 583374 6083141 175 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404204 566716 6097672 34 Fresh water Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404205 566644 6097788 54 Freshwater 108 Water Supply GW404239 675549 6141142 31 0 Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404247 675215 6141222 23 0 1.248 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404259 676098 6140577 90 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404261 674914 6141580 33 0 Water Supply GW404263 674883 6141580 50 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404268 674958 6141586 36 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404269 566448 6095267 19 224.4 Fresh water Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404270 598970 6094491 36 0 Water Supply GW404294 545821 6101067 49 Fresh water 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404297 673978 6147143 59 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404299 558315 6089465 24 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404305 563909 6091355 36 0 Water Supply GW404311 674884 6139134 39 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404311 674884 6139134 39 0 Water Supply GW404341 609706 6098419 3 0 Water Supply | Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404372 567815 6084003 15 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404407 673635 6149549 64 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404473 679470 6140368 50 0 Water Supply GW404487 646827 6139761 47 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404586 565541 6094423 100 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404592 673798 6148900 36 Fresh water 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404608 606295 6104422 61.8 0 Water Supply GW404633 680283 6154298 64 0 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404641 603991 6094526 320 85 Commercial and Industria | |
| GW404642 603457 6094893 245 85 Commercial and Industria | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404658 674028 6149786 60 Fresh water 0 0.625 Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| Bore ID | Easting | Northing | Final depth | Mean Groundwater | Salinity | Licenced Extraction | Yield (L/s) | . Bore use | Water Sharing Plan |
|----------------------|------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------|--|--|
| | | | (m) | Elevation (mAHD) | description | Volume (ML/year) | rielu (L/s) | | |
| GW404660 GW404670 | 677824 537455 | 6139441 6108179 | 81 11 | | | 0 | | Water Supply Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404671 | 537749 | 6109334 | 13.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404697 GW404739 | 545983 540659 | 6097887 6100597 | 63 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404759 GW404765 | 611445 | 6107042 | 4 | | | 5 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404766 | 577700 | 6079957 | 115 | | | 75 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404767 GW404773 | 570086 568118 | 6092500 6094279 | 40 48 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404780 | 600778 | 6092363 | 30 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404782 | 570836 | 6091153 | 23 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404784 GW404852 | 673157 549799 | 6142041 6088545 | 70 66 | | Brackish water | 0 | | Water Supply Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404892 | 569970 | 6090143 | 68.5 | | Diackisii watei | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404893 | 534835 | 6102146 | 79.24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404916 GW404929 | 598263 570086 | 6070527 6087461 | 93 51 | | | 30 55 | 4.38 | Irrigation Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404930 | 678010 | 6138190 | 66 | | | 15 | 4.50 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404931 | 668959 | 6148679 | 66 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404941 GW404946 | 551492 545226 | 6092913 6098817 | 84 45 | | Brackish water | 200 | 1.1 | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404948 | 548912 | 6088852 | 28 | | Fresh water | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW404957 | 576280 | 6080452 | 6.6 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW404968 GW404979 | 547415 620454 | 6097043 6096554 | 98 | | Brackish water | 0 10 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405010 | 617326 | 6099768 | 31.4 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405011 | 619315 | 6100016 | 37.5 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405018 GW405033 | 607988 616045 | 6078221 6097858 | 56 37.5 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405041 | 553462 | 6097008 | 112 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405048 | 607634 | 6078237 | 73 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405061 GW405096 | 684531 537824 | 6144473 6101752 | 30 165 | | | 0 | 0.74 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405122 | 577147 | 6081357 | 86 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405135 | 569116 | 6098451 | 72 | | | 150 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405136 GW405268 | 566025 548352 | 6095527 6100718 | 94 | | | 10 0 | | Commercial and Industrial Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405283 | 567438 | 6096002 | 54 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405393 | 654341 566019 | 6139227 | 76 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW405885 GW405888 | 566109 | 6095521 6095576 | 66 12 | | | 0 | | Monitoring Monitoring | Murrumbidgee Alluvial Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW405891 | 568929 | 6098239 | 54 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW408737 GW409415 | 676181 541541 | 6150242 6098264 | 90 96 | | | 0 | 2.5 3.159 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW409413 GW409459 | 555312 | 6097951 | 30 | | Brackish water | 0 | 5.159 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW409575 | 539406 | 6095870 | 79 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW409576 GW409592 | 656344 602403 | 6137727 6083959 | 41 37.5 | | Fresh water | 0 | 1.5 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW409854 | 601163 | 6094788 | 43.5 | | riesii watei | 0 | 1.5 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW411128 | 679428 | 6154466 | 21 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW411945 GW414375 | 673587 612816 | 6148997 6104294 | 60 30 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414373 GW414382 | 534558 | 6106361 | 75 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414423 | 675765 | 6149680 | 108 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414439 GW414450 | 678289 602889 | 6138341 6069562 | 66 52 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414537 | 670544 | 6142531 | 30 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414576 | 678495 | 6138724 | 54 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414578 GW414594 | 674604 674269 | 6142844 6143074 | 72 15 | | | 0 | | Water Supply Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414600 | 674271 | 6143082 | 14.5 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414602 | 561290 | 6097961 | 79 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414604 GW414605 | 674280 674275 | 6143082 6143070 | 14.5 15 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414613 | 581954 | 6094164 | 33 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414656 | 535115 | 6106153 | 140 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414683 GW414687 | 563872 599101 | 6093078 6064959 | 20 4.8 | | | 30 0 | | Irrigation Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414690 | 663769 | 6144355 | 125 | | | 0 | 0.5 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414702 | 606971 | 6101249 | 40 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414706 GW414715 | 664635 599007 | 6145850 6096245 | 60 40 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414717 | 567040 | 6097219 | 16 | | | 0 | | Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW414744 GW414804 | 674277 668803 | 6142258 | 50 85 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW414804 GW414805 | 668803 675996 | 6144692 6143529 | 60 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415062 | 676873 | 6140667 | 40 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415345 | 675562 675509 | 6144426 | 113 27 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415701 GW415727 | 675509 674091 | 6141160 6142623 | 123 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415874 | 675685 | 6143417 | 56 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415892 GW415894 | 546223 674131 | 6092708 6146932 | 63 66 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415894 GW415910 | 543842 | 6100752 | 60 | | | 0 | | Water Supply Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415920 | 617619 | 6098985 | 76 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415935 GW415938 | 665198 677381 | 6151278 6142446 | 90 30 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415938 GW415969 | 535539 | 6103826 | 20 | | | 0 | | Water Supply Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415970 | 535342 | 6103779 | 22 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415971 GW415972 | 535110 535310 | 6103862 6103885 | 20 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415972 GW415973 | 535310 | 6103884 | 12 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415974 | 535061 | 6103677 | 22 | | | 0 | | Unknown | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415975 GW415975 | 534732 534732 | 6103824 6103824 | 25 25 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415975 GW415976 | 534732 | 6103452 | 21.8 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415977 | 535764 | 6104180 | 25 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415978 GW415979 | 535766 535505 | 6104182 6104226 | 10.6 19 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415979 GW415980 | 534688 | 6104228 | 7 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW415982 | 534690 | 6104385 | 22 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | | | | | | | | | |

| Bore ID | Easting | Northing | Final depth | Mean Groundwater Elevation (mAHD) | Salinity | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------------------|----------------------|------------------------|-------------|--------------------------------------|--------------------------------|--------------------------------------|-------------|--|--|
| GW416032 | 666606 | 6149992 | (m) 100 | Elevation (mAHD) | description | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416054 | 605630 | 6082976 | 72 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416074 | 604395 | 6071717 | 39.5 | | | 0 | | Irrigation | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416102 GW416110 | 678669 577679 | 6155188 6079850 | 110 105 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416173 | 604397 | 6072232 | 24 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416182 | 661234 | 6145110 | 54 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416207 | 608418 | 6097253 | 86.2 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416221 GW416222 | 674832 674872 | 6142552 6142535 | 5.6 6.9 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416223 | 674868 | 6142546 | 6.3 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416224 | 674889 | 6142552 | 6.2 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416225 | 674851 | 6142547 | 5.9 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416226 GW416251 | 674844 611120 | 6142533 6099611 | 5.9 17 | | | 0 | | Monitoring Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW416252 | 608190 | 6091806 | 54 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416253 | 614161 | 6098311 | 54 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416254 | 614158 | 6098078 | 77 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416264 GW416268 | 675530 675380 | 6141132 6140218 | 25 65 | | | 0 | 1 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416309 | 540531 | 6100614 | 85 | | | 0 | 5 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416358 | 561658 | 6091886 | 100 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416362 | 531739 | 6107523 | 216 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416394 | 602550 | 6083474 | 60 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416399 GW416400 | 612630 676391 | 6096856 6143066 | 17 73 | | | 0 | | Water Supply Water Supply | Murrumbidgee Alluvial Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416410 | 680078 | 6154352 | 48 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416449 | 674871 | 6149603 | 102 | | | 0 | 1 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416457 | 607196 | 6105209 | 175 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416459 GW416469 | 617643 676858 | 6098980 6141077 | 76 46 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416469 GW416475 | 589275 | 6080305 | 164.5 | | Brackish water | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416506 | 536384 | 6107619 | 192 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416517 | 546425 | 6099667 | 48.5 | | | 0 | | Irrigation | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW416525 GW416546 | 591092 674955 | 6085159 6142457 | 192 4 | | | 0 | | Irrigation Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416546 GW416547 | 674955 | 6142438 | 6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416548 | 674986 | 6142423 | 6 | | | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416552 | 675304 | 6142077 | 50 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416588 | 625144 | 6106763 | 51 | | Freehouster | 0 | 0.5 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416662 GW416663 | 544473 544567 | 6096395 6095984 | 56 56 | | Fresh water Fresh water | 0 | 0.5 5 | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416722 | 662659 | 6146420 | 72 | | Tresii water | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416725 | 679517.967 | 6154335.029 | 58 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416726 | 679517.967 | 6154335.029 | 58 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416745 GW416787 | 566099.3 601794.5 | 6095201 6092068.1 | 14 42 | | | | | Stock and Domestic | Murrumbidgee Alluvial Groundwater Sources 2020 |
| GW416787 | 679458 | 6154379 | 30 | | | | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416813 | 567797 | 6084050 | 19 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416819 | 670578 | 6153443 | 50 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416846 GW416869 | 669454 556539.4 | 6151210 6089458.7 | 84 72 | | | | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416803 | 539921.5 | 6099083.4 | 162 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW416927 | 672854.4 | 6142186.1 | 102 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417000 | 601636.5 | 6080591.9 | 51 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417042 GW417071 | 664186.2 558942.7 | 6151155.3 6091506.8 | 120 150 | | | | | Monitoring Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417087 | 602220 | 6096381 | 73 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417304 | 540545 | 6095898.8 | 101 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417317 | 539537.6 | 6096742.8 | 150 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417321 GW417321 | 671844.2 671844.2 | 6138311.9 6138311.9 | 42 42 | | | | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417321 | 554454.1 | 6088667.4 | 102 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417417 | 675453 | 6144065 | 78 | | | | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417543 | 658378.1 | 6143855.1 | 48 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417577 GW417607 | 674575 561182 | 6149775 6085948 | 48 54 | | | | | Stock and Domestic Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417607 GW417940 | 609310 | 6092719 | 10 | | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417941 | 609289 | 6092774 | 10 | | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417942 | 609284 | 6092754 | 10 | | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417970 GW417970 | 544466 544466 | 6102909 6102909 | 15 15 | | | | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417970 GW417978 | 544466 | 6102909 | 15 | | | | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW417997 | 594665 | 6086616 | 77 | | | | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW505395 | 612282 | 6034741 | 90 | | - L | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW600151 GW700018 | 703260 695993 | 6155225 6156002 | 50 16.6 | | Saline water Brackish water | 0 | | Monitoring Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW700018 GW700381 | 727182 | 6169732 | 38.1 | | Diackisii Water | 0 | | Water Supply Water Supply | Greater Metropolitan Region Groundwater Sources 2023 |
| GW700777 | 690927 | 6148587 | 31 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW700858 | 696388 | 6158184 | 30 | | | 0 | 0.562 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW700976 GW701221 | 691013 723663 | 6148684 6170634 | 30 102 | | | 0 | | Water Supply Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW701221 GW701418 | 723663 | 6169434 | 72 | | | 0 | | Monitoring Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW701496 | 718163 | 6169359 | 84 | | | 0 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW701643 | 722338 | 6168259 | 109 | | | 0 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW701710 | 699643 | 6155699 | 34 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702068 GW702165 | 718588 698898 | 6170224 6153554 | 114 24 | | | 0 | | Water Supply Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702163 GW702411 | 688583 | 6158964 | 54 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702600 | 690778 | 6148620 | 48 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702612 | 699648 | 6161135 | 21 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702614 | 699488 | 6156670 | 50 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW702745 GW703096 | 723906 690965 | 6170415 6148556 | 20 72 | | | 0 | | Commercial and Industrial Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW703118 | 691414 | 6156053 | 64 | | | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW703450 | 699301 | 6158595 | 18.6 | | | 0 | 0.502 | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW703454 | 699625 | 6154539 | 18 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW703582 GW703832 | 690621 715629 | 6148831 6163756 | 32 86 | | | 0 | | Monitoring Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| | 699812 | 6154765 | 30 | | | 0 | | Water Supply Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW703849 | | | | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

| Bore ID | Easting | Northing | Final depth (m) | Mean Groundwater Elevation (mAHD) | Salinity description | Licenced Extraction Volume (ML/year) | Yield (L/s) | Bore use | Water Sharing Plan |
|----------|---------|----------|--------------------|--------------------------------------|-------------------------|---|-------------|---------------------------|--|
| GW704032 | 722428 | 6168050 | 24 | | | 8 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704228 | 723874 | 6170426 | 102 | | | 3 | | Commercial and Industrial | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704234 | 701029 | 6155907 | 24 | | Fresh water | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704457 | 701570 | 6165119 | 66 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704528 | 710008 | 6168002 | 32 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704532 | 701426 | 6159761 | 114 | | Brackish water | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704533 | 701574 | 6159409 | 120 | | Brackish water | 0 | | Monitoring | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704542 | 701274 | 6155941 | 42 | | | 0 | | Water Supply | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |
| GW704578 | 696931 | 6151178 | 60 | | Fresh water | 0 | | Stock and Domestic | NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 |

Attachment E

Erosion and sedimentation risk

An additional series of erosion risk and sedimentation impact figures with zoomed in callout boxes to highlight the location of high erosion risk categories along and within the amended project footprint is provided below.

A spatial sensitivity analysis was conducted using the modelled soil erosion potential for waterways with Strahler order 1 to 4 and their proximity to the amended project footprint. The following tables present the percentage of footprint and their sensitivity. Waterways within the one kilometre buffer surface water and groundwater study area were identified. First to fourth order streams were extracted and given the following buffer distances:

- 50 metres from Strahler order 1
- 100 metres from Strahler order 2
- 150 metres from Strahler order 3
- 200 metres from Strahler order 4.

Where there were overlapping buffers, the higher order stream was given precedence ie Strahler order 4 was assigned the buffer over Strahler order 3. These buffers were overlaid onto the amended project footprint and soil erosion risk models to calculate with their respective areas and erosion risk. These results are provided in Table E-1 and Table E-2.

Table E-1 Percentage of waterway buffer within amended project footprint by area

| Name | EIS Area (ha) | Amended project footprint Area (ha) | % of footprint |
|--|---------------|-------------------------------------|----------------|
| Footprint (excluding Strahler order 1-4 buffers) | 5,342.3 | 5,669.56 | 64.17% |
| Strahler order 1 buffer within footprint | 1,141.0 | 1,124.74 | 12.73% |
| Strahler order 2 buffer within footprint | 922.0 | 877.44 | 9.93% |
| Strahler order 3 buffer within footprint | 596.1 | 569.53 | 6.45% |
| Strahler order 4 buffer within footprint | 547.9 | 593.42 | 6.72% |

Table E-2 Soil erosion classification within waterway buffer by area

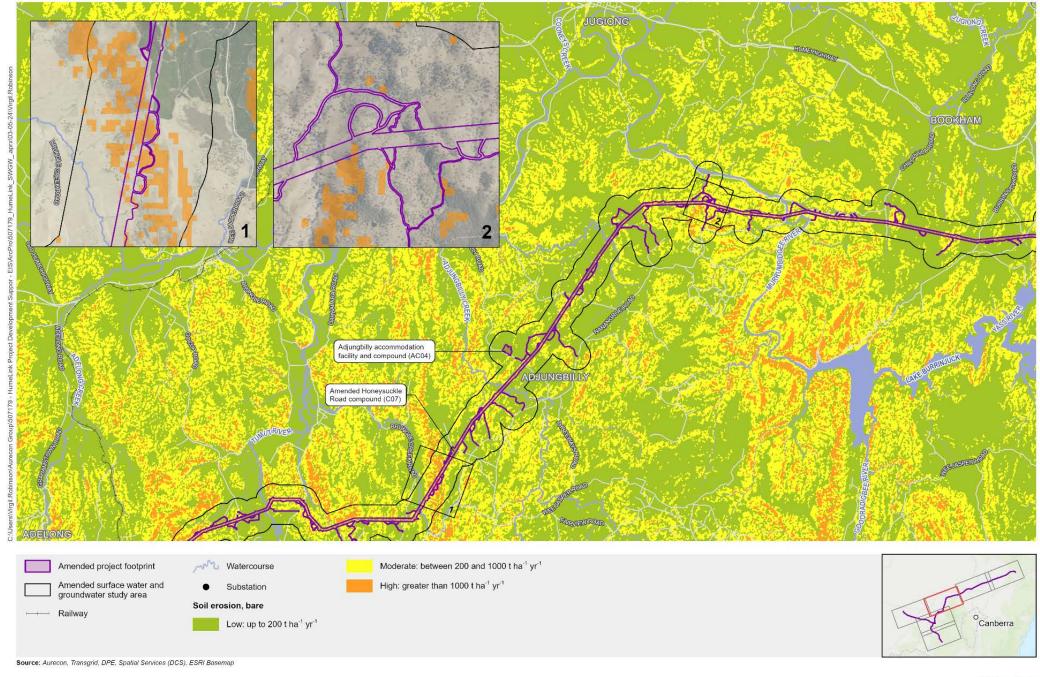
| Buffer | Soil erosion (t/ha/yr) | Sensitivity | EIS Area (ha) | Amended project footprint Area (ha) | % of total amended project footprint |
|---------------------------------|---------------------------|-------------|------------------|-------------------------------------|--------------------------------------|
| Strahler order 1 (50 m buffer) | <20 | Low | 115.97 | 125.19 | 1.42% |
| | 20 - <50 | Low | 179.20 | 201.88 | 2.29% |
| | 50 - <200 | Low | 431.43 | 492.24 | 5.57% |
| | 200 - <500 | Moderate | 208.61 | 191.14 | 2.16% |
| | 500 - <1000 | Moderate | 107.05 | 81.12 | 0.92% |
| | 1000 - <2000 | High | 79.05 | 28.13 | 0.32% |
| | 2000 - <3000 | High | 18.72 | 4.98 | 0.06% |
| Strahler order 2 (100 m buffer) | <20 | Low | 0.99 | 99.86 | 1.13% |
| | 20 - <50 | Low | 90.79 | 161.70 | 1.83% |
| | 50 - <200 | Low | 137.03 | 389.47 | 4.41% |
| | 200 - <500 | Moderate | 380.24 | 158.12 | 1.79% |
| | 500 - <1000 | Moderate | 190.78 | 56.87 | 0.64% |
| | 1000 - <2000 | High | 80.03 | 11.39 | 0.13% |
| | 2000 - <3000 | High | 42.14 | 0.00 | 0.00% |
| Strahler order 3 (150 m buffer) | <20 | Low | 1.04 | 78.75 | 0.89% |
| | 20 - <50 | Low | 68.43 | 90.69 | 1.03% |
| | 50 - <200 | Low | 84.20 | 224.31 | 2.54% |
| | 200 - <500 | Moderate | 229.34 | 126.30 | 1.43% |
| | 500 - <1000 | Moderate | 144.27 | 40.27 | 0.46% |
| | 1000 - <2000 | High | 42.39 | 7.82 | 0.09% |
| | 2000 - <3000 | High | 24.53 | 1.36 | 0.02% |
| Strahler order 4 (200 m buffer) | <20 | Low | 2.94 | 95.73 | 1.08% |
| | 20 - <50 | Low | 89.62 | 105.04 | 1.19% |
| | 50 - <200 | Low | 94.44 | 241.38 | 2.73% |
| | 200 - <500 | Moderate | 202.01 | 113.76 | 1.29% |
| | 500 - <1000 | Moderate | 111.97 | 30.08 | 0.34% |
| | 1000 - <2000 | High | 39.17 | 7.32 | 0.08% |
| | 2000 - <3000 | High | 10.69 | 0.07 | 0.00% |
| Footprint (outside of buffer) | <20 | Low | 947.21 | 1,084.11 | 12.27% |
| | 20 - <50 | Low | 873.40 | 1,042.23 | 11.80% |
| | 50 - <200 | Low | 1,758.05 | 2,100.99 | 23.78% |
| | 200 - <500 | Moderate | 857.76 | 880.95 | 9.97% |
| | 500 - <1000 | Moderate | 513.71 | 406.83 | 4.60% |
| | 1000 - <2000 | High | 336.22 | 134.70 | 1.52% |
| | 2000 - <3000 | High | 55.96 | 19.03 | 0.22% |
| | >3000 | High | 1.19 | 0.42 | 0.00% |



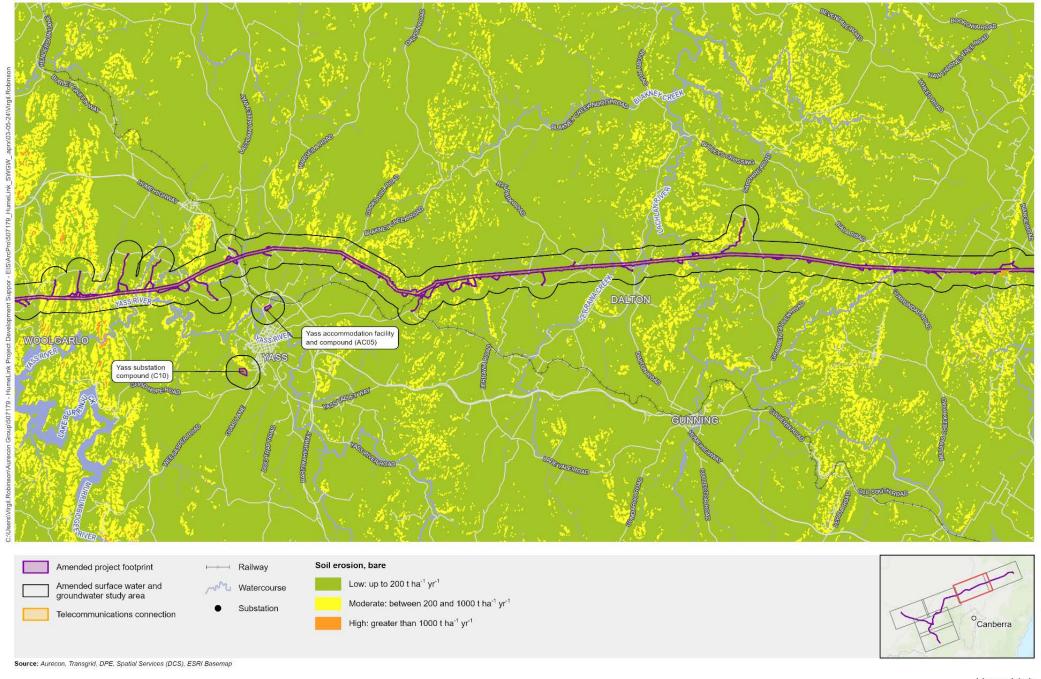
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Attachment E: Modelled soil erosion Page 1 of 6

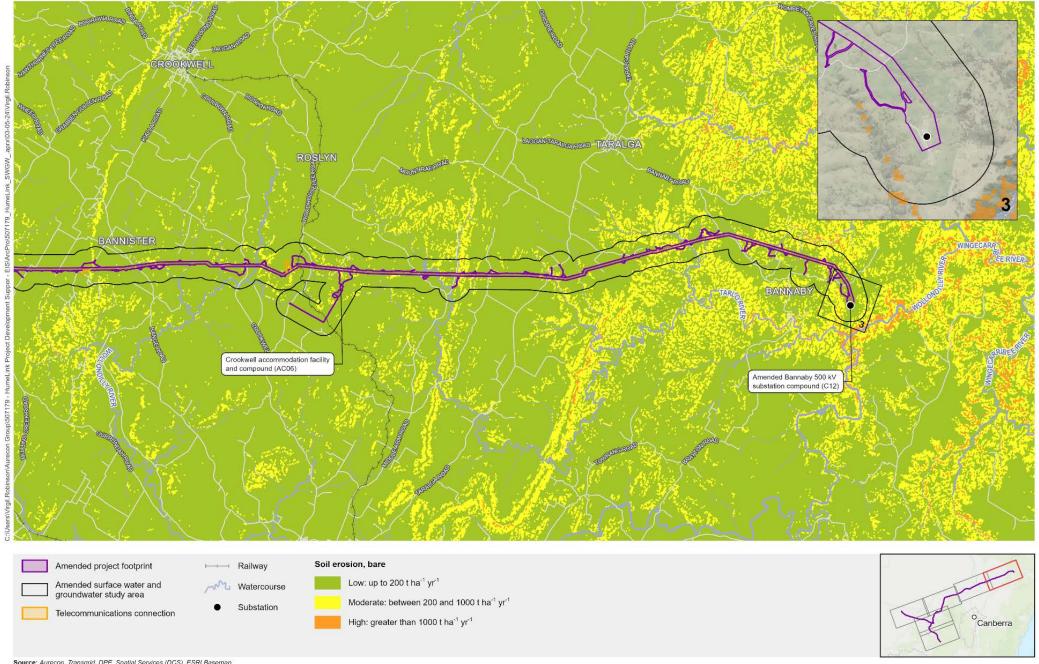


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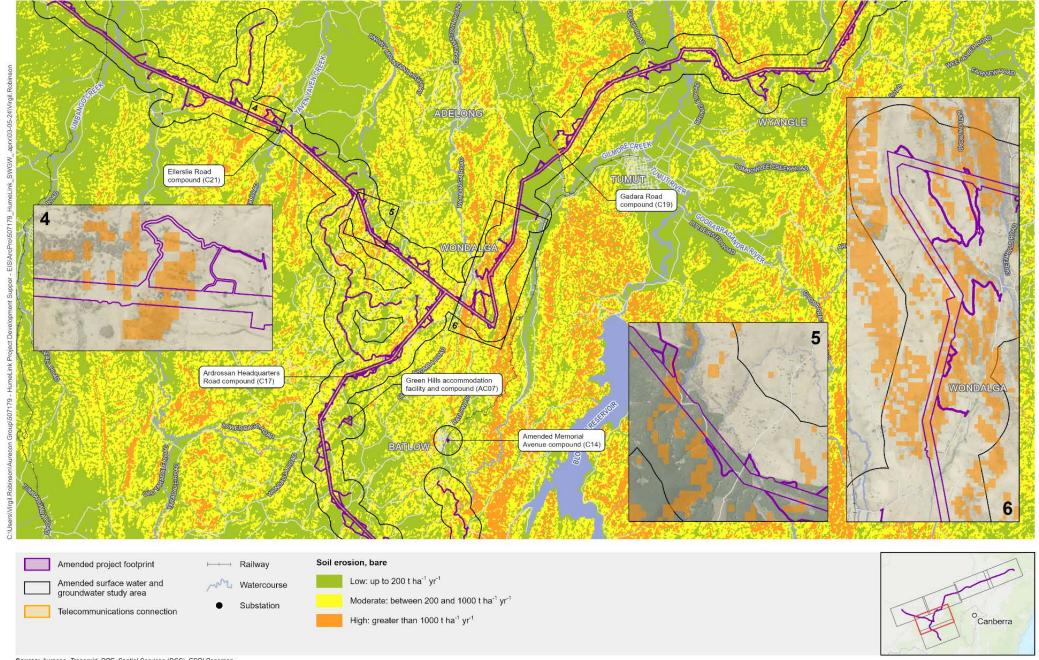
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Attachment E: Modelled soil erosion Page 3 of 6



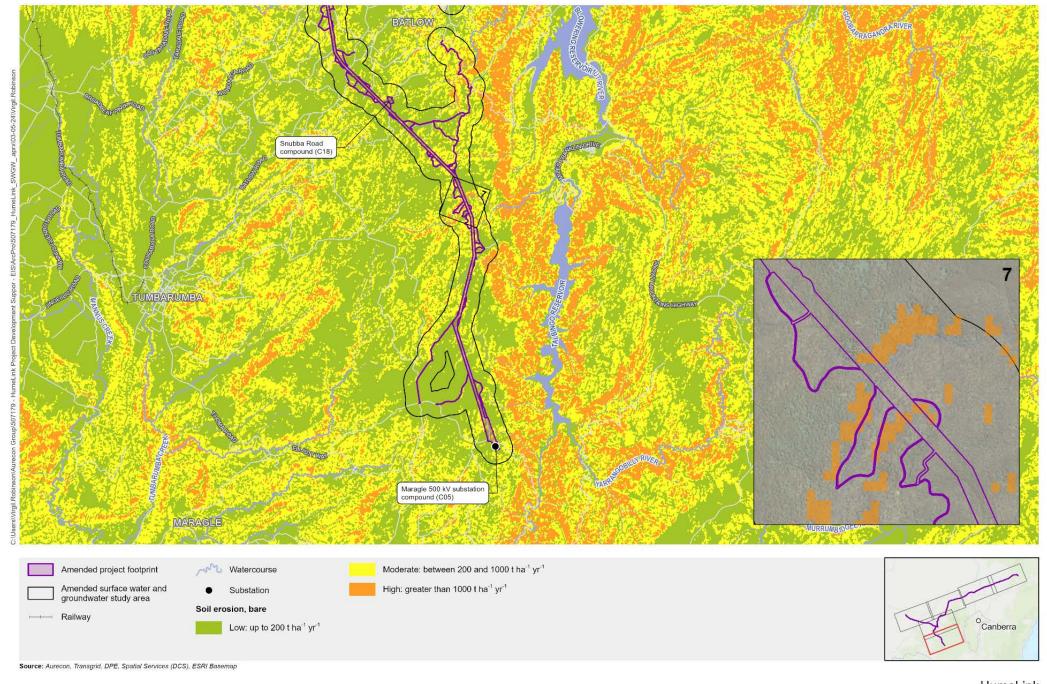
Source: Aurecon, Transgrid, DPE, Spatial Services (DCS), ESRI Basemap

HumeLink Attachment E: Modelled soil erosion Page 4 of 6



Source: Aurecon, Transgrid, DPE, Spatial Services (DCS), ESRI Basemap

HumeLink Attachment E: Modelled soil erosion Page 5 of 6



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Attachment F Access track analysis

| 1 | Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|---|--------------------|------------------------|--------------------------------------|---------------------------|--------------------------------------|--------------------------|---------------------------|--------------------------------------|--------------------------|---------------------------|--------------------------------------|--------------------------|---------------------------|------------------|--|
| 1 | 1 | | | Υ | 0 | | Υ | | SNUBBA | N | 0 | | Υ | | High |
| Control proc. 1 | 2 | | | Y | 0 | | Y | | | Y | 0 | | Y | | |
| Second State Color | | | | Y | | | N N | | | | 0 | | Y | | |
| Toward specific Toward T | 5 | | | Ϋ́ | | | | | | | Ö | 51105571 | Ϋ́ | | High |
| 1 | 6 | Upgraded track | | Υ | 53 | | N | | BAGO | | 0 | | Υ | N | |
| 1 | 7 | | | N | 0 | | Y | 15 | | | 0 | | Υ | | High |
| Description | 8 | | | Y | 0 | | Y | | | N | 0 | | Y | | |
| 11 Marcald rank 4 | | | | Y | 0 | | Y | | SHARPS | Y | 0 | | Y | | |
| 1 | | | 4 | N | 0 | | Ý | 0 | | Y | 0 | | Ϋ́ | N | High |
| 1-1 | 12 | | | Y | 89 | TOMNEYS PLAIN | N | 0 | | Y | 0 | | Y | | |
| 1-1 | | | | Y | 0 | MATTTYC | Y | 0 | SNUBBA | Y | 0 | | Y | | High |
| 1. | | | | Y | 0 | IVIETTIS | Y | | | | 0 | | Y | | |
| 12 Merande lands | 16 | | | Ϋ́ | 0 | | Ý | | UNCLES | | Ö | | Ϋ́ | | High |
| 1 | 17 | | | Υ | | | | | | | 0 | | Υ | | |
| 20 | 18 | | | Y | 661 | DEEP | | 628 | OAKY | | 0 | | Y | | |
| 1 | | | | V | | | V | | | | 0 | KILLIMICAT | Y V | | |
| 22 Ungrander tank | 21 | | | Ý | | | Ÿ | | | | 0 | | Ÿ | | High |
| 24 Upperdefertank 0 | | Upgraded track | | Y | 0 | | Υ | 0 | | Υ | 0 | | Υ | N | |
| 25 Liberhade track 124 N | 23 | | | Y | 0 | | Y | | 2011111100 | | 0 | | Υ | | |
| 27 Unproded track 0 | 24 | | | Y N | 0 | | Y | | DOWLINGS | | 0 | | Y V | | High |
| 27 Ungraded trank 32 N | | | | | 0 | | Y | | RIGHT ARM | | 0 | | Y | | |
| 28 Uspraded track | 27 | | | N | 0 | | Ý | | | N | 0 | | Ϋ́ | | High |
| 30 | | Upgraded track | 0 | | | | | 1048 | MIDDLE | N | 0 | | Υ | | |
| 31 Descriptor Lark 236 N 214 N 6 McGREGOS N 0 LONG Y Y High | | | | N | | | N | | 05014416 | Y | 0 | | Υ | | |
| 22 | 30 | | | Y N | | | Y N | | | | 0 | | Y V | N V | |
| 33 Uperaded track 0 | 32 | | | | | | | | | | 0 | | Y | Y | |
| 35 Upgraded track 0 | 33 | | | | | | | | Meditedons | | 0 | | Ϋ́ | N N | High |
| S6 Upgraded track O | 34 | | | Υ | | | | | | | 0 | | Υ | | |
| 37 Upgraded track 0 | 35 | | | Y | | PEGMILL | N | | CLYDES | | 0 | GILMORE | Y | | |
| 38 | 36 | | | Y V | | | Y NI | | | | 0 | CAMAIT | Y V | | |
| 39 Upgraded track 98 N 706 N 742 CART ROAD N 0 CAT ROAD Y N 1497 40 Upgraded track 0 Y 255 N N 0 0 Y 255 N N 0 0 FOLKY Y N 1497 41 Upgraded track 70 N 1117 N 0 0 COUPERS Y 0 FOLKY Y N 1497 41 Upgraded track 80 N 1117 N 0 0 COUPERS Y 0 FOLKY Y N 1497 44 Upgraded track 80 N 1117 N 0 0 COUPERS Y 0 FOLKY Y N 1497 44 Upgraded track 80 N 1117 N 0 0 FOLKY Y 0 N 1497 44 Upgraded track 80 N 1 15 N 147 N 0 0 FOLKY Y N 1497 45 Upgraded track 80 N 1 15 N 147 N 0 0 FOLKY Y N 1497 14 N 1497 14 N 0 FOLKY Y N 1497 14 N 1497 | | | | N | | | | | | | 0 | | Y | | |
| 41 Upgraded track 26 | | Upgraded track | | N | | | | | CART ROAD | N | 0 | | Υ | | |
| 42 Upgraded track 79 N 117 N 0 COWPERS Y 0 COWPERS Y N High | | | | Y | | | | | | Y | 0 | | Y | | |
| 43 Upgraded track 0 | | | | | | | | | COMPERC | | 0 | | Y | | |
| 44 Upgraded track 0 Y 116 N 47 N 0 FOLEYS Y N High 45 Upgraded track 0 Y 116 N 47 N 0 0 FOLEYS Y N High 46 Upgraded track 0 Y 116 N 47 N 0 0 TOLEGE Y N N High 46 Upgraded track 302 N 7 22 N N 208 N 0 0 TOLEGE Y N N High 47 Upgraded track 302 N 7 72 N N 208 N N 0 TARCUTTA Y Y Y High 44 Upgraded track 0 Y 1 75 N 1 N 208 N N 0 TARCUTTA Y Y Y High 19 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 | | | | V | | | | | COWPERS | | 0 | | Y Y | | |
| 45 Upgraded track 0 Y 116 N 47 N 0 TOLES Y N High 46 Upgraded track 0 Y 223 N 0 0 Y 0 COLLEGE Y N High 47 Upgraded track 302 N 72 N 208 N 0 TARCUTTA Y Y 1 High 48 Upgraded track 302 N 72 N 208 N 0 TARCUTTA Y Y 1 High 48 Upgraded track 0 Y 7 11 N 208 N 0 TARCUTTA Y Y 1 High 49 Upgraded track 0 Y 7 11 N 208 N 0 TARCUTTA Y Y 1 High 49 Upgraded track 0 Y 1 11 N 208 N 0 TARCUTTA Y Y 1 High 49 Upgraded track 0 Y 1 11 N 208 N 0 TARCUTTA Y Y 1 High 49 Upgraded track 0 Y 1 11 N 10 N 208 N 0 TARCUTTA Y Y 1 High 49 Upgraded track 1 12 N 1 160 N 8 86 N 0 TARCUTTA Y Y 1 High 49 TARCUTTA Y 1 High | | Upgraded track | | Ý | | FOLEYS | | | | | 0 | | Y | | High |
| A7 Ubgraded track 302 N 72 N 208 N 0 TARCUTTA Y Y High A8 Ubgraded track 0 Y 156 N 208 N 0 DARLOWS Y N High A9 Ubgraded track 0 Y 156 N 208 N 0 DARLOWS Y N High 50 Ubgraded track 112 N 160 N 86 S N 0 DARLOWS Y N High 51 Ubgraded track 112 N 160 N 86 S N 0 DARLOWS Y N High 52 Ubgraded track 373 N 305 N 305 N 0 ADELONG Y Y High 53 Ubgraded track 373 N 306 N 361 GERMANS N 0 ADELONG Y Y High 54 New track 46 N 955 N 131 N 0 OBBIENS Y N High 55 New track 46 N 955 N 131 N 0 O'BBIENS Y N High 56 New track 0 Y 208 N 0 MCGREGORS Y 0 LONG Y N High 57 New track 0 Y 257 N 231 N 0 BANNABY Y Y High 58 New track 0 Y 257 N 231 N 0 BANNABY Y Y High 58 New track 0 Y 257 N 231 N 0 BANNABY Y Y High 59 New track 0 Y 81 N 346 N 0 GOCUP Y N High 59 New track 0 Y 81 N 346 N 0 GOCUP Y N High 60 New track 0 Y 103 N 0 O'COUP Y N High 61 New track 0 Y 103 N 0 O'COUP Y N High 62 New track 438 N 0 Y 566 N 0 BRUNGLE Y N High 63 New track 438 N 0 Y 566 N 0 BRUNGLE Y N High 64 New track 44 40 N 52 N 68 N 0 O'COUP Y N High 65 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 66 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 66 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 67 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 68 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 69 New track 44 47 N 52 N 68 N 0 O'COUP Y N High 60 | 45 | Upgraded track | 0 | Υ | | | N | 47 | | N | 0 | | Υ | N | High |
| 48 Upgraded track 0 Y 71 N 307 N 0 AN High 49 Upgraded track 0 Y 156 N 208 N 0 DARLOWS Y N High 50 Upgraded track 0 Y 0 Y 0 DARLOWS Y N High 51 Upgraded track 112 N 160 N 86 N 0 ADELONG Y Y Y High 52 Upgraded track 379 N 340 N 322 GERMANS N 0 ADELONG Y Y High 53 New track 46 N 1929 N 431 N 0 ADELONG Y Y Y High 53 New track 46 N 9277 N 1314 N 0 DERLONG Y Y Y Y | | | | Y | | | | | | | 0 | COLLEGE | Y | N | |
| 49 Upgraded track 0 | | | | | | | | | | | 0 | TARCUTTA | Y | Y | High |
| \$50 Upgraded track | | | | Y | | | | | | | 0 | DARLOWS | Y | | |
| S2 | | | | Ý | | | Y | | | | 0 | | Y | | High |
| \$\frac{1}{53}\$ New track 0 Y 109 N 431 N 0 O New track 7 Y High New track 46 N 955 N 131 N 0 O OBRIENS Y N High N 174 N 0 OBRIENS Y N OBRIENS Y N High N 174 N 0 OBRIENS Y N OBRIENS Y Y OBRIENS Y Y | | | | | | | | | | | 0 | | Υ | Υ | |
| S4 | 52 | | | N | | | | 322 | GERMANS | | 0 | ADELONG | Y | Y | |
| 55 New track 0 | | | | Y N | | | | | | | 0 | O'BRIENS | Y | Y N | |
| 56 New track 0 | | | | Y | 277 | | | | | | 0 | | Y | | |
| S8 New track O | 56 | New track | 0 | Y | 208 | | N | 0 | MCGREGORS | Y | 0 | LONG | Ý | | High |
| Second S | 57 | | | Y | | | | | | | 0 | | Υ | Y | |
| 60 New track 0 Y 672 N 97 N 148 N 0 GOCUP Y N High 161 New track 0 Y 103 N 0 O Y 103 N 0 O Y 103 N 104 High 162 New track 97 N 143 N 305 N 0 SAWPIT Y N High 163 New track 438 N 0 V 104 Y 105 N 105 N 0 BRUNGLE Y N 105 | | | | Y | | | | | | | 0 | | Y | N | |
| 61 New track 0 Y 103 N 0 O Y 103 N 0 O SAWPIT Y N N High 62 New track 97 N 143 N 305 N 0 O SAWPIT Y N N High 63 New track 438 N 0 O Y 566 N 0 O BRUNGLE Y N N High 64 New track 149 N 52 N 0 BRUNGLE Y N N High 65 New track 42 N 92 N 1076 O'BRIENS N 0 BRUNGLE Y N N High 66 New track 454 N 365 N 158 N 108 N 0 O'BRIENS Y Y HIGH 66 New track 454 N 365 N 158 N 158 N 0 O'BRIENS Y Y Y HIGH 66 New track 454 N 365 N 158 N 158 N 0 O'BRIENS Y N N High 67 New track 103 N 164 N 1593 N 0 O'BRIENS N 0 O'BRIENS Y N N High 68 New track 0 O Y 5 N 5 N 5 N 5 N 0 O'BRIENS Y Y Y HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y Y N HIGH 149 N 1593 N 0 O'BRIENS Y Y N 1 HIGH 1593 N 0 O'BRIENS Y Y N 1 HIGH 1593 N 0 O'BRIENS Y Y N 1 HIGH 1593 N 0 O'BRIENS Y N 0 HIG | 59 60 | | | V | | | | | | | 0 | | Y V | Y N | |
| 62 New track 97 N 143 N 305 N 0 SAWPIT Y N High 63 New track 438 N 0 Y 566 N 0 0 BRUNGLE Y N High 64 New track 149 N 52 N 668 N 0 0 BRUNGLE Y N High 65 New track 149 N 52 N 668 N 0 0 BRUNGLE Y N High 65 New track 42 N 92 N 1076 O'BRIENS N 0 0 O'BRIENS Y Y High 66 New track 454 N 365 N 158 N 0 0 OAK Y N High 67 New track 103 N 164 N 1593 N 0 0 JUGIONG Y N High 68 New track 103 N 164 N 1593 N 0 0 JUGIONG Y N High 68 New track 0 Y 5 N 5 N 0 COOKS Y Y Y High 69 New track 0 Y 39 N N 0 D BANGO Y N High 70 New track 404 N 0 SAMS N 399 N N 0 D BANGO Y N High 71 New track 404 N 0 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 71 New track 102 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 72 New track 104 N 834 N 1711 N 1711 N 180 TARK 124 N 834 N 1814 N 1814 N 1814 N 1814 N 1816 N 18 | | | | Ý | | | | | | | 0 | GOCOF | Y | | High |
| 64 New track 149 N 52 N 668 N 0 BRUNGLE Y N High 65 New track 42 N 92 N 1076 O'BRIENS N 0 O'BRIENS Y Y High 66 New track 454 N 365 N 158 N 0 O'BRIENS Y Y N High 66 New track 454 N 365 N 158 N 0 O'BRIENS Y Y N High 67 New track 103 N 164 N 1593 N 0 O'BRIENS Y N N 0 JUGIONG Y N High 68 New track 0 O Y 5 N 5 N 5 N 0 O'BRIENS Y Y N High 69 New track 0 O Y 39 N 0 O'BRIENS Y Y N High 69 New track 0 O Y 39 N 0 O'BRIENS Y Y N High 70 New track 404 N 0 O'S Y 39 N 0 O'BRIENS N O'BRIENS Y Y N High 71 New track 404 N 0 N 608 SAMS N 379 DOWLINGS N O'BRIENS N O'BRIENS Y N N High 72 New track 100 N 608 SAMS N 379 DOWLINGS N O'BRIENS N O'BRIENS Y N N High 73 New track 124 N 834 N 1711 N N 0 METAL 124 N 834 N 1711 N N 0 METAL 124 N 834 N 1711 N N 0 METAL 125 N N 0 METAL 125 N N 1896 | 62 | | 97 | | | | | 305 | | N | 0 | | Ý | | High |
| 65 New track 42 N 92 N 1076 O'BRIENS N 0 O'BRIENS Y Y High 66 New track 454 N 365 N 158 N 0 O'BRIENS Y Y N High 67 New track 103 N 164 N 1593 N 0 JUGIONG Y N High 68 New track 0 Y 5 N 5 N 0 COOKS Y Y N High 69 New track 0 Y 39 N N 0 COOKS Y Y N High 70 New track 404 N 0 Y 39 N N 0 BANGO Y N High 71 New track 404 N 0 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 72 New track 124 N 834 N 1711 N 1711 N 1 O MERRILL Y N 1 High 73 New track 50 N 1 N 834 N 1 N 1711 N 1 O MERRILL Y N 1 High 74 New track 50 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N | | New track | | | | | Υ | | | | 0 | | Υ | | |
| 66 New track 454 N 365 N 158 N 0 OAK Y N High 67 New track 103 N 164 N 1593 N 0 OJUGIONG Y N High 68 New track 0 Y 5 N 5 N 5 N 0 COOKS Y Y N High 69 New track 0 Y 39 N 0 O BANGO Y N High 70 New track 404 N 0 Y 1758 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 73 New track 124 N 834 N 1711 N 1711 N 0 O MERRILL Y N 1814 N 1815 N 1816 N 181 | | | | | | | | | O'DDIENC | | 0 | | Y | N | High |
| 67 New track 103 N 164 N 1593 N 0 JUGIONG Y N High 68 New track 0 Y 5 N 5 N 0 COOKS Y Y Y High 69 New track 0 Y 39 N N 0 COOKS Y Y Y High 70 New track 404 N 0 N 1758 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 834 N 1711 N 1 N | | | 42 | | | | | | O BRIENS | | 0 | | Y | N N | |
| 68 New track 0 Y 5 N 5 N 5 N 0 COOKS Y Y High 69 New track 0 Y 39 N 0 O Y 0 BANGO Y N High 70 New track 404 N 0 Y 1758 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 72 New track 124 N 834 N 1711 N 0 JERRAWA Y N High 73 New track 50 N 1 N 1 N 0 MERRILL Y N High 74 New track 50 N 1 N 1 N 0 MERRILL Y N High 75 New track 0 Y 265 N 1 S49 BACK N 0 MIDDLE Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y N High | | New track | | | | | | | | | 0 | | Ÿ | | High |
| 70 New track 404 N 0 Y 1758 DOWLINGS N 0 JERRAWA Y N High 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 72 New track 124 N 834 N 1711 N 0 MERRILL Y N High 73 New track 50 N 1 N 0 Y 0 HUMES Y N High 74 New track 0 Y 265 N 549 BACK N 0 MIDDLE Y N High 75 New track 91 N 0 Y 48 N 0 PEJAR Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y | 68 | New track | 0 | Y | 5 | | | 5 | | N | 0 | COOKS | Υ | Υ | High |
| 71 New track 10 N 608 SAMS N 379 DOWLINGS N 0 JERRAWA Y N High 72 New track 124 N 834 N 1711 N 0 MERILL Y N High 73 New track 50 N 1 N 0 Y 0 HUMES Y N High 74 New track 0 Y 265 N 549 BACK N 0 MIDDLE Y N High 75 New track 91 N 0 Y 48 N 0 PEJAR Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y N High | | | | | | | N | | DOMESTICS | | 0 | BANGO | Y | | |
| 72 New track 124 N 834 N 1711 N 0 MERRIL Y N High 73 New track 50 N 1 N 0 Y 0 HUMES Y N High 74 New track 0 Y 265 N 549 BACK N 0 MIDDLE Y N High 75 New track 91 N 0 Y 48 N 0 PEJAR Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y N High | | | | | | CANAC | Y N | | | | 0 | | Y | | |
| 73 New track 50 N 1 N 0 Y 0 HUMES Y N High 74 New track 0 Y 265 N 549 BACK N 0 MIDDLE Y N High 75 New track 91 N 0 Y 48 N 0 PEJAR Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y N High | 72 | | | | 834 | CIVIAC | | 1711 | DOWLINGS | | 0 | | Y | | |
| 74 New track 0 Y 265 N 549 BACK N 0 MIDDLE Y N High 75 New track 91 N 0 Y 48 N 0 PEJAR Y N High 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y N High | 73 | | | | 1 | | | 0 | | Ý | Ö | | Ý | | High |
| 76 New track 0 Y 0 MELAMALONG Y 0 MELAMALONG Y 0 MELAMALONG Y N High | 74 | New track | 0 | Y | | | N | 549 | BACK | | 0 | MIDDLE | Υ | | |
| | 75 | | | N | | MELANALONIC | Y | | NACI ANALIONIC | N | 0 | | Y | | |
| | 76 77 | New track New track | 63 | Y N | 0 | MELAMALONG MELAMALONG | Y | 0 | MELAMALONG MELAMALONG | Y | 0 | MELAMALONG MELAMALONG | Y | N N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|---------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|------------------|--|
| 78 | New track | 0 | Y | 0 | | Y | 338 | | N N | 0 | TURRALLO | Y | N | High High |
| 79 80 | New track New track | 0 | Y | 125 0 | | N Y | 243 565 | | N N | 0 | KERRAWARY | Y | N N | High |
| 81 | New track | 0 | Ý | 9 | | N N | 872 | | N | 0 | KERRAWARY | Ý | N | High |
| 82 | New track | 0 | Υ | 206 | | N | 277 | | N | 0 | | Υ | N | High |
| 83 | New track | 0 | Y | 0 | | Y | 0 | | Y | 0 | DIC CDING | Y | N N | High High |
| 84 85 | New track New track | 0 36 | N N | 0 35 | | N N | 460 504 | | N N | 0 | BIG SRING | Y V | N N | High |
| 86 | New track | 0 | Y | 110 | | N | 0 | WILSONS | Y | 0 | COCKATOO | Y | N | High |
| 87 | New track | 408 | N | 814 | | N | 293 | | N | 0 | O'BRIENS | Υ | N | High |
| 88 | Upgraded track | 0 | Y | 0 | | Y | 0 | SAW MILL | Y | 0 | SAW MILL | Y | N | High |
| 89 | New track | 0 | Y | 515 | ALTON | N V | 1286 | | N N | 0 | MERRILL | Y | N N | High High |
| 90 91 | New track Existing tracks/roads | | Y Y | 0 | | v v | 415 0 | | N V | 0 | DERRINGULLEN | Y Y | N N | Moderate |
| 92 | New track | 0 | Ÿ | 118 | | Ň | 220 | | N | 0 | TOOLES | Ϋ́ | N | High |
| 93 | New track | 0 | Υ | 13 | | N | 166 | | N | 2 | SAW MILL | N | N | High |
| 94 | New track | 0 | Y | 684 | | N | 626 | OAK | N | 2 | OAK | N | N | High |
| 95 | Upgraded track | 0 | Y | 697 0 | | N V | 507 | | N Y | 3 | KYEAMBA | N N | N N | High High |
| 96 97 | Upgraded track New track | 400 | N N | 602 | | N N | 0 485 | WEIR | N N | 7 | ADELONG BUDDONG | N N | Y | High |
| 98 | Upgraded track | 899 | N | 335 | | N | 318 | *** | N | 8 | BIG SRING | N | N N | Moderate |
| 99 | Upgraded track | 107 | N | 32 | | N | 10 | | N | 9 | ADELONG | N | N | Moderate |
| 100 | New track | 0 | Y | 411 | | N | 0 | | Y | 9 | | N | N | High |
| 101 102 | New track New track | 409 29 | N N | 432 370 | | N N | 1935 171 | OAK BACK | N N | 11 11 | JUGIONG MIDDLE | N N | Y | High High |
| 103 | New track | 6 | N N | 206 | | N N | 66 | COWPERS | N N | 11 | COWPERS | N N | N N | High |
| 104 | New track | 29 | N | 646 | | N | 186 | COWILIG | N | 12 | KILLIMICAT | N | N N | High |
| 105 | Upgraded track | 58 | N | 732 | | N | 324 | FOXES | N | 14 | HONEYSUCKLE | N | N | Moderate |
| 106 | Upgraded track | 0 | Υ | 370 | | N | 576 | | N | 14 | KYEAMBA | N | N | High |
| 107 | New track | 0 | Υ | 0 | | Υ | 298 | | N | 16 | CONNORS | N | N N | High Moderate |
| 108 109 | Upgraded track | 116 | N N | 500 552 | | N N | 1521 | | N N | 17 | | N N | N | Moderate |
| 110 | Upgraded track Upgraded track | 338 | Y | 15 | | N N | 1531 339 | | N N | 18 18 | KYEAMBA | N N | N N | High |
| 111 | Upgraded track | 30 | N | 438 | | N | 64 | CLYDES | N | 19 | MANDYS | N | Ϋ́Υ | Moderate |
| 112 | Upgraded track | 0 | Υ | 375 | | N | 1087 | | N | 19 | TYWONG | N | Υ | High |
| 113 | New track | 0 | Υ | 3 | | N | 266 | | N | 20 | ADJUNGBILLY | N | N | High |
| 114 115 | Upgraded track | 0 | Y | 0 | | Y | 582 0 | O'BRIENS WILSONS | N V | <u>21</u> | O'BRIENS WILSONS | N N | N | High High |
| 116 | New track New track | 0 | Y V | 0 | | Y V | 572 | O'BRIENS | N N | 25 | O'BRIENS | N N | N N | High |
| 117 | New track | 32 | N | 456 | | N | 898 | O DIVILIAS | N | 25 | OAK | N N | N N | High |
| 118 | Upgraded track | 0 | Y | 0 | | Y | 0 | | Y | 27 | STOCKMANS | N | N | High |
| 119 | New track | 0 | Υ | 20 | | N | 265 | | N | 27 | OAK | N | N | High |
| 120 | Upgraded track | 0 | Y | 46 | TULLERAH | N | 420 | | N | 28 | DERRINGULLEN | N . | N | High |
| 121 | New track | 68 0 | N V | 413 0 | ALTON | N V | 1963 815 | RIGHT ARM | N N | 28 30 | MERRILL NACKI NACKI | N N | N N | High High |
| 122 123 | Upgraded track Upgraded track | 84 | N N | 0 | | v v | 518 | RIGHT ARIVI | N N | 33 | O'BRIENS | N N | N N | High |
| 124 | Upgraded track | 264 | N | 158 | | Ň | 629 | | N N | 33 | KEAJURA | N N | Y | Moderate |
| 125 | New track | 156 | N | 370 | | N | 897 | DOWLINGS | N | 33 | JERRAWA | N | N | High |
| 126 | New track | 0 | Υ | 208 | | N | 202 | | N | 33 | TARCUTTA | N | N | High |
| 127 | New track | 0 | Y | 143 | | N | 457 | SHARPENING | N | 35 | DERRINGULLEN | N N | <u> ү</u> | High High |
| 128 129 | New track New track | 0 | Y | 203 340 | | N N | 53 5 | SAWPIT | N N | 37 39 | COCKATOO TARLO | N N | N N | High |
| 130 | Upgraded track | 78 | N | 359 | | N | 282 | JAWIII | N | 40 | ADELONG | N N | N | Moderate |
| 131 | New track | 48 | N | 55 | | N | 0 | | Υ | 40 | YAVEN YAVEN | N | Ϋ́ | High |
| 132 | New track | 434 | N | 157 | | N | 1929 | DOWLINGS | N | 40 | JERRAWA | N | Y | High |
| 133 | Upgraded track | 0 | Y | 0 | | Y | 0 | | Y | 42 | KILLIMICAT | N | N | High |
| 134 135 | New track New track | 0 69 | Y N | 253 774 | | N N | 652 638 | | N N | 42 44 | DERRINGULLEN TUMUT | N N | N V | High High |
| 136 | Upgraded track | 129 | N N | 25 | | N N | 509 | O'BRIENS | N | 45 | O'BRIENS | N N | N N | Moderate |
| 137 | New track | 26 | N | 527 | | N | 253 | O D.MENO | N | 47 | HONEYSUCKLE | N | N | High |
| 138 | Upgraded track | 0 | Y | 0 | | Y | 162 | | N | 48 | PEJAR | N | N | High |
| 139 | Upgraded track | 0 | Υ | 136 | | N | 503 | | N | 49 | WINDOWIE | N | Υ | High |
| 140 | Upgraded track | 0 | Y | 815 | | N | 823 | 0.617 | N | 49 | KYEAMBA | N N | N | High High |
| 141 142 | New track New track | 146 0 | N V | 452 0 | | N V | 1550 39 | OAK | N N | 49 49 | JUGIONG DARLOWS | N N | N N | High |
| 143 | Upgraded track | 0 | Y | 111 | | N N | 231 | | N N | 51 | ADELONG | N N | N N | High |
| 144 | Upgraded track | 0 | Ý | 302 | | N | 39 | BAGO | N | 51 | BAGO | N | N | High |
| 145 | Upgraded track | 0 | Υ | 230 | WILLS | N | 947 | | N | 56 | CONNORS | N | N | High |
| 146 | Upgraded track | 167 | N | 239 | | N | 0 | | Y | 61 | GOCUP | N | N | High |
| 147 | New track | 0 | Y | 0 | | Y | 8 | MULCONIC | N | 62 | ADELONG | N N | N | High High |
| 148 149 | New track Upgraded track | 165 20 | N N | 24 74 | | N N | 1563 740 | WILSONS SAW MILL | N N | 64 65 | ADELONG SAW MILL | N N | Y N | Moderate |
| 150 | Upgraded track Upgraded track | 0 | Y | 0 | | Y | 0 | JAVV WILL | Y | 65 | MOUNT PLEASANT | | N N | High |
| 151 | New track | 127 | N | 72 | TULLERAH | N | 626 | | N N | 65 | DERRINGULLEN | N N | N | High |
| 152 | Upgraded track | 159 | N | 63 | | N | 901 | | N | 66 | ADELONG | N | N | Moderate |
| 153 | Upgraded track | 0 | Υ | 0 | | Υ | 75 | | N | 66 | | N | Y | High |
| 154 | New track | 22 | N | 323 | | N | 104 | | N | 67 | RIGHT ARM | N | N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|----------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|-------------------------|---------------------------|------------------|--|
| 155 | New track | 0 | Y | 16 | | N | 399 | WINDOWIE | N | 70 | WILSONS | N | N | High High |
| 156 157 | New track New track | 0 17 | N N | 0 159 | | N N | 34 565 | WEIR GALVINS | N N | 73 74 | SHEEPYARD | N N | Y N | High |
| 158 | New track | 184 | N | 147 | | N | 309 | GALVINS | N | 75 | SAWPIT | N | N | High |
| 159 | Upgraded track | 0 | Υ | 176 | | N | 329 | GALVINS | N | 76 | | N | N | High |
| 160 | Upgraded track | 21 46 | N N | 523 | | N N | 158 | | N N | 76 | TUMUT | N N | N N | Moderate High |
| 161 162 | New track Upgraded track | 112 | N N | 86 692 | | N N | 86 83 | FOXES | N N | 77 78 | BANNABY HONEYSUCKLE | N N | N N | Moderate |
| 163 | New track | 29 | N | 400 | | N | 498 | BUNTON | N | 79 | FLACKNELL | N | N | High |
| 164 | New track | 239 | N N | 646 | | N N | 772 | DOWLINGS | N | 79 | JERRAWA | N N | N N | High High |
| 165 166 | Upgraded track New track | 0 197 | N N | 337 587 | DEEP | N N | 99 629 | | N N | 81 82 | TUMUT OAK | N N | N N | High |
| 167 | Upgraded track | 49 | N | 249 | DEEI | N | 1333 | | N | 83 | OAK | N | Ϋ́ | Moderate |
| 168 | New track | 0 | Y | 0 | | Y | 200 | | N | 86 | | N | N | High High |
| 169 170 | New track Upgraded track | 16 273 | N N | 188 524 | | N N | 0 498 | CART ROAD | Y N | 87 88 | KILLIMICAT CART ROAD | N N | N N | Moderate |
| 171 | New track | 0 | Y | 200 | PEGMILL | N N | 716 | WALKER | N N | 88 | GILMORE | N N | Y | High |
| 172 | New track | 101 | N | 1239 | | N | 199 | OAKY | N | 88 | MURRUMBIDGEE | N | N | High |
| 173 | Upgraded track | 185 | N | 46 | | N N | 285 | | N N | 89 | ADELONG | N N | N N | Moderate High |
| 174 175 | Upgraded track New track | 0 | Y | 246 287 | | N N | 0 514 | | N N | 90 92 | | N N | N N | High |
| 176 | Upgraded track | 278 | N | 0 | | Ϋ́ | 216 | | N | 94 | BAGO | N | Ϋ́ | High |
| 177 | Upgraded track | 22 | N | 0 | | Υ | 174 | | N | 95 | KEAJURA | N | N | High |
| 178 179 | New track New track | 122 0 | N | 1282 165 | | N N | 233 124 | OAKY SAWPIT | N N | 95 95 | MURRUMBIDGEE TARLO | N N | N N | High High |
| 180 | Upgraded track | 110 | N N | 462 | | N N | 185 | SAVVEII | N N | 97 | IANLO | N N | Y | Moderate |
| 181 | Upgraded track | 183 | N | 541 | | N | 644 | | N | 97 | COLLEGE | N | N | Moderate |
| 182 | Upgraded track | 19 | N | 0 | | Y | 2211 | | N N | 97 | MERRILL | N | N | High High |
| 183 184 | Upgraded track Upgraded track | 0 168 | N Y | 211 271 | | N N | 238 204 | MCGREGORS | N N | 97 98 | RIGHT ARM LONG | N N | N N | Moderate |
| 185 | New track | 0 | Y | 36 | | N | 534 | WICGREGORS | N | 104 | KERRAWARY | N | N | High |
| 186 | New track | 52 | N | 0 | | Υ | 0 | | Υ | 105 | OAK | N | N | High |
| 187 | New track | 0 | Y | 12 | | N | 780 | | N N | 105 | TABLO | N | N | High High |
| 188 189 | New track Upgraded track | 53 0 | N Y | 118 100 | | N N | 202 547 | | N N | 106 107 | TARLO ADELONG | N N | N N | High |
| 190 | New track | 89 | Ň | 215 | | N | 309 | | N N | 108 | YAVEN YAVEN | N N | N | High |
| 191 | Upgraded track | 0 | Υ | 0 | | Υ | 460 | | N | 109 | ADELONG | N | N | High |
| 192 193 | Upgraded track Upgraded track | 203 0 | N | 121 60 | | N N | 1186 550 | | N N | 109 109 | ADELONG ADELONG | N N | Y | Moderate High |
| 193 | New track | 129 | N N | 0 | PEGMILL | Y | 776 | CLYDES | N N | 113 | GILMORE | N N | Y | High |
| 195 | New track | 0 | Y | 0 | | Ϋ́ | 930 | | N | 113 | O'BRIENS | N | Y | High |
| 196 | Upgraded track | 0 | Y | 0 | | Y | 159 | | N | 114 | SOD HUT | N | N | High High |
| 197 198 | New track Upgraded track | 0 | Y V | 97 0 | SOD HUT | N V | 407 0 | | N V | 114 115 | MYRTLE DARLOWS | N N | N N | High |
| 199 | Upgraded track | 120 | N | 303 | 3001101 | Ň | 1219 | | Ň | 116 | ADELONG | N | Ϋ́Υ | Moderate |
| 200 | New track | 328 | N | 181 | | N | 1284 | RIGHT ARM | N | 116 | NACKI NACKI | N | Υ | High |
| 201 202 | Upgraded track New track | 0 90 | N N | 0 643 | | Y N | 138 1138 | YELLOW CLAY | N N | 119 120 | TURRALLO CART ROAD | N N | N | High High |
| 203 | Upgraded track | 309 | N N | 257 | | N N | 229 | MCGREGORS | N N | 121 | LONG | N N | Y | Moderate |
| 204 | New track | 0 | Υ | 417 | | N | 368 | OAK | N | 121 | OAK | N | N | High |
| 205 206 | New track | 37 32 | N N | 57 389 | MELAMALONG FOLEYS | N N | 28 1022 | | N N | 121 127 | TYWONG | N N | N | High Moderate |
| 206 | Upgraded track New track | 468 | N N | 203 | FULEYS | N N | 813 | RIGHT ARM | N N | 127 | NACKI NACKI | N N | N N | High |
| 208 | Upgraded track | 0 | Y | 15 | | N | 143 | SHARPENING | N | 131 | DERRINGULLEN | N | N | High |
| 209 | New track | 13 | N | 7 | | N | 2256 | | N | 132 | MERRILL | N | N | High Moderate |
| 210 211 | Upgraded track Upgraded track | 161 0 | N Y | 192 0 | | N V | 2023 1573 | WILSONS | N N | 133 138 | NACKI NACKI ADELONG | N N | Y N | High |
| 211 | Upgraded track | 153 | N N | 525 | | N N | 1355 | | N | 139 | | N | N | Moderate |
| 213 | New track | 0 | Υ | 248 | | N | 540 | MCCULLUMS | N | 140 | WASHPEN | N | Υ | High |
| 214 215 | New track New track | 148 100 | N N | 312 116 | | N N | 0 79 | | Y N | 140 140 | MELAMALONG COWPERS | N N | N N | High High |
| 216 | Upgraded track | 100 | N N | 189 | | N N | 1037 | | N N | 140 | COWPERS | N N | N N | Moderate |
| 217 | New track | 34 | N | 0 | | Υ | 0 | | Υ | 142 | SAW MILL | N | Ϋ́ | High |
| 218 | Upgraded track | 0 | Y | 317 | CALC | N | 10 | DOMESTICS | N | 143 | ADELONG | N | N | High Moderate |
| 219 220 | Upgraded track New track | 313 0 | N V | 147 152 | SAMS | N N | 99 704 | DOWLINGS SAW MILL | N N | 146 147 | OOLONG SAW MILL | N N | N N | High |
| 221 | New track | 0 | Y | 209 | | N | 406 | SPARE IVIILL | N | 148 | SANDY | N | Y | High |
| 222 | Upgraded track | 0 | Y | 0 | | Υ | 790 | | N | 150 | SAW MILL | N | N | High |
| 223 224 | New track | 78 | N | 152 | | Y | 195 1337 | | N N | 158 | BANGO | N N | N | High High |
| 224 | New track Upgraded track | 0 | Y | 153 184 | | N N | 1337 368 | | N N | 158 159 | WOLLONDILLY ADELONG | N N | Y | High |
| 226 | New track | 0 | Ÿ | 32 | | N | 719 | | N | 159 | CONNORS | N | N | High |
| 227 | Upgraded track | 0 | Υ | 468 | | N | 1133 | | N | 161 | WINDOWIE | N | Y | High |
| 228 229 | Upgraded track New track | 0 | Y | 187 0 | | N V | 490 0 | | N V | 161 163 | KEAJURA STOCKMANS | N N | N V | High High |
| 230 | New track | 0 | Y | 101 | GRAYS | N N | 1250 | | N N | 163 | WOLLONDILLY | N | N N | High |
| 231 | Upgraded track | 525 | N | 0 | | Υ | 0 | | Υ | 166 | BIG SRING | N | N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|----------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|--------------------------|---------------------------|------------------|--|
| 232 | Upgraded track | 171 | N | 383 | | N | 406 | 14//4/2004///5 | N | 166 | COMATAWA | N | Y | Moderate High |
| 233 234 | New track New track | 0 559 | N N | 0 576 | DEEP | N N | 8 1056 | WINDOWIE | N N | 167 167 | WINDOWIE OAK | N N | N V | High |
| 235 | New track | 23 | N | 284 | GRAYS | N | 1464 | | N | 167 | WOLLONDILLY | N | N N | High |
| 236 | New track | 0 | Υ | 338 | | N | 187 | MANDYS | N | 169 | MANDYS | N | N | High |
| 237 | Upgraded track | 0 | Y | 102 | | N N | 0 | BANNABY | Y N | 170 | CONNORS | N N | N V | High High |
| 238 239 | New track Upgraded track | 0 | Y | 290 542 | | N N | 68 0 | | Y | 170 171 | KILLIMICAT COMATAWA | N N | Y | High |
| 240 | New track | 29 | Ň | 368 | | N | 263 | | N | 171 | TARLO | N | Ϋ́ | High |
| 241 | Upgraded track | 0 | Y | 384 | | N N | 331 | | N N | 173 | TURRALLO | N N | N N | High High |
| 242 243 | New track New track | 0 | Y V | 170 463 | | N N | 613 732 | | N N | 175 177 | KERRAWARY WINDOWIE | N N | N V | High |
| 244 | New track | 45 | N | 491 | | N | 412 | COCKATOO | N | 179 | COCKATOO | N | Ý | High |
| 245 | Upgraded track | 0 | Y | 29 | | N | 886 | | N | 182 | | N | N | High High |
| 246 247 | Upgraded track Upgraded track | 0 75 | Y N | 121 233 | | N N | 275 1673 | RIGHT ARM | N N | 188 190 | NACKI NACKI | N N | N N | Moderate |
| 248 | Upgraded track | 112 | N N | 736 | | N N | 1165 | NIGHT ANIVI | N N | 190 | NACKI NACKI | N N | N N | Moderate |
| 249 | New track | 0 | Υ | 0 | DICKS | Υ | 0 | | Υ | 190 | ROCKY | N | N | High |
| 250 | Upgraded track | 152 | N N | 72 | | N N | 1908 | | N | 194 | NACKI NACKI | N | Y | Moderate High |
| 251 252 | Upgraded track Upgraded track | 0 742 | N N | 1186 348 | | N N | 416 0 | | N Y | 195 195 | O'BRIENS O'BRIENS | N N | N N | High |
| 253 | Upgraded track | 176 | N | 187 | | N | 89 | | N | 198 | HONEYSUCKLE | N | Ϋ́ | Moderate |
| 254 | New track | 199 | N | 588 | DEEP | N | 506 | | N | 198 | OAK | N | Υ | High |
| 255 | New track Upgraded track | 113 64 | N N | 319 | | N N | 589 2 | SAW MILL | N N | 198 198 | DERRINGULLEN SAW MILL | N N | N N | High Moderate |
| 256 257 | New track | 113 | N N | 32 227 | | N N | 1276 | COWRIDGE | N N | 201 | DERRINGULLEN | N N | N N | Moderate |
| 258 | New track | 0 | Y | 36 | | N | 545 | | N | 205 | BRUNGLE | N | N | High |
| 259 | New track | 82 | N | 436 | | N | 867 | WEIR | N | 206 | BUDDONG | N | Y | Moderate Moderate |
| 260 261 | Upgraded track | 19 0 | N | 146 43 | DEEP | N N | 386 566 | | N N | 207 209 | MURRUMBIDGEE | N N | N N | High |
| 262 | New track Upgraded track | 0 | Y | 235 | DEEP | N N | 296 | | N N | 211 | MYRTLE | N N | N N | High |
| 263 | Upgraded track | 139 | N | 177 | | N | 474 | GERMANS | N | 211 | ADELONG | N | N | Low |
| 264 | Upgraded track | 8 | N | 221 | | N | 211 | | N | 212 | TARLO | N | N | Moderate High |
| 265 266 | Upgraded track New track | 0 51 | Y N | 169 2 | | N N | 787 494 | | N N | 214 214 | BOWNING SANDY | N N | N V | High |
| 267 | New track | 537 | N | 595 | DEEP | N | 1120 | | N N | 214 | OAK | N N | Ϋ́ | Moderate |
| 268 | New track | 11 | N | 83 | | N | 278 | | N | 216 | DERRINGULLEN | N | N | High |
| 269 | New track | 30 | N | 0 | | Y | 147 | | N | 217 | PEJAR | N | N N | High High |
| 270 271 | Upgraded track New track | 0 12 | N N | 78 671 | DEEP | N N | 218 815 | OAKY | N N | 218 219 | MURRUMBIDGEE | N N | N Y | High |
| 272 | New track | 0 | Ϋ́ | 0 | Jee. | Ϋ́ | 6 | 0/11(1 | N | 223 | TURNERS | N | Ň | High |
| 273 | Upgraded track | 0 | Υ | 178 | | N | 224 | | N | 224 | | N | N | High Moderate |
| 274 275 | New track Upgraded track | 181 0 | N | 479 0 | | N | 1505 283 | RIGHT ARM | N N | 228 230 | NACKI NACKI WINDOWIE | N N | Y N | High |
| 276 | Upgraded track | 0 | Ÿ | 81 | FOLEYS | N N | 1082 | | N | 230 | WINDOWIL | N N | Y | High |
| 277 | Upgraded track | 19 | N | 196 | | N | 235 | | N | 232 | | N | N | Moderate |
| 278 279 | Upgraded track | 54 39 | N N | 198 618 | | N N | 167 546 | | N N | 237 237 | RIGHT ARM | N N | N N | Low High |
| 280 | New track Upgraded track | 430 | N N | 96 | | N N | 285 | | N N | 240 | BAGO | N N | N N | Moderate |
| 281 | Upgraded track | 103 | N | 525 | | N | 212 | CLYDES | N | 241 | MANDYS | N | Y | Low |
| 282 | Upgraded track | 0 | Y | 0 | | Y | 347 | | N | 242 | KEAJURA | N | N | High High |
| 283 284 | Upgraded track New track | 0 283 | N N | 109 329 | | N N | 287 156 | SAW MILL | N N | 246 247 | SAW MILL GOCUP | N N | N V | Moderate |
| 285 | Upgraded track | 0 | Y | 136 | | N | 193 | UNCLES | N N | 252 | SHARPS | N N | N N | High |
| 286 | Upgraded track | 0 | Υ | 0 | | Υ | 820 | | N | 252 | SANDY | N | N | High |
| 287 288 | New track New track | 86 35 | N N | 0 | | Y | 630 | | N N | 252 256 | ADJUNGBILLY STOCKMANS | N N | N V | High High |
| 288 | New track | 0 | Y | 0 | | Y | 636 | | N N | 256 | ADJUNGBILLY | N N | N N | High |
| 290 | New track | 42 | N | 241 | | N | 403 | | N | 257 | BOWNING | N | Y | High |
| 291 | New track | 0 | Y | 208 | | N | 376 | | N | 258 | TARCUTTA | N | N | High Moderate |
| 292 293 | Upgraded track New track | 31 0 | N Y | 196 434 | | N N | 1355 441 | | N N | 264 264 | WOLLONDILLY LONG | N N | N Y | High |
| 294 | Upgraded track | 40 | N N | 212 | | N | 433 | | N | 265 | MYRTLE | N | Ÿ | Moderate |
| 295 | New track | 34 | N | 73 | | N | 408 | MCCULLUMS | N | 265 | WASHPEN | N | Y | High |
| 296 297 | New track Upgraded track | 10 97 | N N | 669 155 | | N N | 443 1021 | YELLOW CLAY | N N | 273 275 | OAK UMBANGO | N N | N N | High Low |
| 298 | New track | 78 | N | 345 | | N | 1154 | WINDOWIE | N N | 275 | WINDOWIE | N N | N N | Moderate |
| 299 | Upgraded track | 0 | Υ | 0 | | Υ | 1450 | WILSONS | N | 277 | ADELONG | N | N | High |
| 300 | Upgraded track | 0 | Y | 816 | | N | 1030 | LILINATO | N | 277 | COLLEGE | N | N | High Low |
| 301 302 | Upgraded track Upgraded track | 502 59 | N N | 122 134 | PEGMILL | N N | 485 569 | HUMES CLYDES | N N | 286 288 | HUMES GILMORE | N N | N V | Low |
| 303 | Upgraded track | 0 | Y | 0 | LEGIVILLE | Y | 56 | CLIDES | N N | 288 | | N N | N N | High |
| 304 | Upgraded track | 36 | N | 297 | | N | 428 | | N | 290 | MYRTLE | N | N | Moderate |
| 305 | New track | 10 | N N | 279 | | N N | 754 | COWPERS FOXES | N N | 290 | COWPERS | N N | N N | High Moderate |
| 306 307 | Upgraded track New track | 28 0 | N Y | 754 86 | | N N | 565 293 | FUXES | N N | 291 291 | HONEYSUCKLE MYRTLE | N N | N N | High |
| 308 | New track | 0 | Ý | 568 | | N | 1597 | | N | 302 | LACHLAN | N | N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|-------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|---------------------------|---------------------------|------------------|--|
| 309 | Upgraded track | 68 | N | 5 | | N | 0 | | Y | 303 | YAVEN YAVEN | N | Y | High Moderate |
| 310 311 | New track New track | 81 202 | N N | 403 632 | | N N | 310 1040 | GERMANS | N N | 303 304 | ADELONG OAK | N N | Y | Moderate |
| 312 | Upgraded track | 132 | N | 319 | | N | 281 | CART ROAD | N | 306 | CART ROAD | N N | N N | Low |
| 313 | New track | 144 | N | 598 | | N | 759 | FIRST | N | 307 | MIDDLE | N | Y | Moderate |
| 314 315 | Upgraded track New track | 108 110 | N N | 621 404 | BACK | N N | 219 0 | CLYDES BACK | N Y | 311 314 | MANDYS MIDDLE | N N | N N | Low High |
| 316 | Upgraded track | 0 | Y | 240 | DACK | N | 0 | DACK | Y | 315 | MELAMALONG | N | N | High |
| 317 | Upgraded track | 0 | Υ | 41 | MERRILL | N | 592 | | N | 317 | HUMES | N | N | High |
| 318 319 | Upgraded track | 175 0 | N Y | 215 192 | | N N | 30 802 | SHARPS | N N | 317 321 | SHARPS BAGO | N N | N N | Moderate High |
| 320 | Upgraded track New track | 73 | N | 647 | | N N | 504 | BUNTON | N N | 323 | FLACKNELL | N N | N N | Moderate |
| 321 | Upgraded track | 309 | N | 318 | | N | 81 | BAGO | N | 327 | BAGO | N | N | Moderate |
| 322 323 | New track Upgraded track | 92 106 | N N | 62 671 | | N N | 536 633 | | N N | 330 332 | BRUNGLE BOILING DOWN | N N | N v | High Low |
| 324 | Upgraded track | 0 | Y | 434 | | N N | 828 | | N | 332 | KEAJURA | N N | N N | High |
| 325 | Upgraded track | 206 | N | 5 | | N | 114 | | N | 335 | HONEYSUCKLE | N | N | Moderate |
| 326 | New track | 0 47 | Y | 0 | | Y | 0 | | Y | 335 | COOKS | N | N | High High |
| 327 328 | New track New track | 0 | N Y | 211 0 | | N Y | 339 0 | WEIR | N Y | 335 338 | SHEEPYARD | N N | N N | High |
| 329 | Upgraded track | 182 | N | 660 | | N | 395 | RIGHT ARM | N | 344 | RIGHT ARM | N | N | Low |
| 330 | New track | 240 | N | 0 | | Y | 154 | WOOLGARLO | N | 346 | WOOLGARLO | N | N | High |
| 331 332 | New track New track | 0 | Y | 0 | | Y | 0 959 | SAW MILL | Y N | 347 350 | SAW MILL BRUNGLE | N N | N N | High High |
| 333 | New track | 216 | N N | 9 | | N | 1661 | | N | 351 | JERRAWA | N | N | High |
| 334 | Upgraded track | 24 | N | 23 | | N | 0 | SAW MILL | Y | 354 | SAW MILL | N | N | High |
| 335 336 | Upgraded track | 0 | Y | 54 129 | | N N | 0 457 | FELLED TIMBER | Y N | 355 355 | GOCUP FLACKNELL | N N | N N | High High |
| 337 | New track New track | 0 | Y | 100 | | N N | 693 | FELLED HIVIBER | N N | 355 | SAWPIT | N N | N N | High |
| 338 | Upgraded track | 0 | Ý | 0 | | Υ | 468 | | N | 358 | COMATAWA | N | N | High |
| 339 | Upgraded track | 0 | Y | 443 | | N | 43 | DICUT ADA | N | 360 | COMATAWA | N | N | High Low |
| 340 341 | Upgraded track New track | 244 0 | N Y | 458 258 | | N N | 662 802 | RIGHT ARM COTWAY | N N | 364 364 | NACKI NACKI O'BRIENS | N N | N V | High |
| 342 | Upgraded track | 241 | Ň | 460 | | N N | 659 | RIGHT ARM | N N | 366 | NACKI NACKI | N N | Ÿ | Low |
| 343 | New track | 171 | N | 100 | | N | 51 | | N | 366 | COWPERS | N | N | High |
| 344 345 | New track Upgraded track | 0 155 | N N | 144 690 | | N N | 543 542 | BUNTON | N N | 367 369 | FLACKNELL BOILING DOWN | N N | N | High Low |
| 346 | New track | 555 | N | 794 | O'BRIENS | N N | 801 | CART ROAD | N N | 372 | CART ROAD | N N | Y | Moderate |
| 347 | Upgraded track | 256 | N | 723 | | N | 246 | | N | 376 | COXS | N | N | Low |
| 348 349 | Upgraded track Upgraded track | 0 | Y | 59 0 | | N | 142 0 | | N Y | 376 377 | MEADOW | N N | N N | High High |
| 350 | Upgraded track | 299 | N N | 0 | | Y | 186 | | N N | 378 | BAGO | N N | N N | High |
| 351 | New track | 7 | N | 1218 | | N | 455 | OAKY | N | 379 | MURRUMBIDGEE | N | N | High |
| 352 | New track | 0 | Y | 252 | | N | 121 | COCKATOO | N | 380 | COCKATOO | N | Y | High Moderate |
| 353 354 | Upgraded track Upgraded track | 49 17 | N N | 282 550 | | N N | 419 467 | | N N | 381 381 | YASS | N N | N N | Moderate |
| 355 | New track | 34 | N | 277 | | N | 681 | MCCULLUMS | N | 382 | WASHPEN | N | N | High |
| 356 | Upgraded track | 0 | Y | 922 | | N | 977 | | N | 383 | KYEAMBA | N | N | High |
| 357 358 | Upgraded track New track | 326 0 | N Y | 0 | | Y | 1101 247 | | N N | 384 388 | BIG SRING PEJAR | N N | Y N | High High |
| 359 | New track | 0 | Y | 0 | | Y | 353 | | N | 390 | TURRALLO | N | N | High |
| 360 | Upgraded track | 0 | Υ | 60 | | N | 2134 | MIDDLE | N | 392 | MERRILL | N | N | High |
| 361 362 | Upgraded track New track | 36 41 | N N | 61 48 | | N N | 0 334 | STEEVES | Y N | 393 395 | STEEVES | N N | N N | High High |
| 363 | New track | 14 | N N | 247 | | N N | 1271 | COWRIDGE | N N | 395 | DERRINGULLEN | N N | N N | High |
| 364 | Upgraded track | 0 | Ϋ́ | 0 | DOWLINGS | Y | 28 | DOWLINGS | N | 400 | OOLONG | N | N | High |
| 365 | Upgraded track | 0 | Y | 428 | DOWLINGS | N | 434 | WILSONS | N Y | 401 | WILSONS | N N | N N | High High |
| 366 367 | Upgraded track Upgraded track | 11 0 | N Y | 0 | DOWLINGS | Y | 0 605 | DOWLINGS | N N | 401 401 | OOLONG BRUNGLE | N N | N N | High |
| 368 | New track | 0 | Ý | 6 | | N N | 270 | | N | 407 | COOKS | N | Y | High |
| 369 | Upgraded track | 59 | N | 740 | | N | 515 | BUNTON | N | 410 | FLACKNELL | N | N | Low |
| 370 371 | Upgraded track Upgraded track | 0 | Y | 383 0 | | N V | 323 582 | | N N | 412 417 | BOILING DOWN SANDY | N N | Y N | High High |
| 372 | Upgraded track | 0 | Y | 122 | | N | 566 | | N | 418 | TARLO | N | N | High |
| 373 | New track | 66 | N | 129 | | N | 1226 | | N | 418 | WOLLONDILLY | N | N | Moderate |
| 374 | Upgraded track | 0 | Y | 0 | | Y | 0 | FIRST | Y | 420 | WOLLONDILLY | N N | N N | High High |
| 375 376 | Upgraded track New track | 167 | N N | 51 337 | | N N | 611 453 | | N N | 423 424 | BRUNGLE YAVEN YAVEN | N N | N N | Moderate |
| 377 | New track | 39 | N | 271 | | N | 453 | | N | 424 | YAVEN YAVEN | N | N | High |
| 378 | Upgraded track | 52 | N | 204 | | N | 1326 | | N | 426 | WOLLONDILLY | N | N | Low |
| 379 380 | New track Upgraded track | 0 | Y | 371 56 | | N N | 502 470 | | N N | 430 431 | JUGIONG ADELONG | N N | Y | High High |
| 381 | New track | 0 | Y | 498 | | N | 618 | | N | 433 | BANNABY | N | Y | High |
| 382 | Upgraded track | 0 | Y | 434 | | N | 236 | | N | 435 | MYRTLE | N | Y | High |
| 383 384 | New track New track | 167 0 | N | 141 464 | | N N | 399 1156 | | N N | 436 443 | KILLIMICAT BUDDONG | N N | N V | Moderate High |
| 385 | New track | 0 | T V | 382 | | N N | 565 | | N N | 443 | BANNABY | N N | N N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|-------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|---|---------------------------|--------------------------------------|--------------------------|---------------------------|------------------|--|
| 386 | Upgraded track | 13 | N | 113 | | N | 90 | | N | 445 | CONNORS | N | N | Moderate |
| 387 | New track | 0 | Y | 75 | | N | 1172 | COWRIDGE | N | 445 | DERRINGULLEN | N | Y | High Low |
| 388 389 | Upgraded track New track | 221 4 | N N | 685 27 | | N N | 432 17 | | N N | 448 448 | BOILING DOWN MEADOW | N N | N N | High |
| 390 | Upgraded track | 0 | Y | 8 | | N | 86 | | N | 454 | PEJAR | N | N | High |
| 391 | Upgraded track | 0 | Ϋ́ | 251 | MIDDLE | N | 1143 | MIDDLE | N | 455 | MERRILL | N | N | High |
| 392 | Upgraded track | 3 | N | 86 | | N | 242 | | N | 456 | | N | N | Moderate |
| 393 | New track | 0 | Y | 196 | WILSONS | N | 380 | WILSONS | N N | 457 | WILSONS | N | N N | High High |
| 394 395 | New track Upgraded track | 0 646 | N N | 84 29 | | N N | 895 24 | | N | 457 458 | SAW MILL BIG SRING | N N | N V | Moderate |
| 396 | Upgraded track | 123 | N | 291 | | N | 226 | UNCLES | N | 464 | SHARPS | N | Ÿ | Low |
| 397 | New track | 53 | N | 383 | | N | 1968 | JUGIONG | N | 465 | JUGIONG | N | N | Moderate |
| 398 | New track | 0 | Y | 186 | | N N | 329 | STEEVES | N N | 465 | STEEVES | N N | N N | High High |
| 399 400 | New track New track | 0 | Y | 54 89 | | N N | 667 0 | SHARPENING | N Y | 466 467 | DERRINGULLEN MEADOW | N N | Y N | High |
| 401 | New track | 15 | N N | 82 | | N N | 248 | | N N | 467 | TARLO | N N | N N | High |
| 402 | Upgraded track | 44 | N | 130 | | N | 434 | | N | 470 | O'BRIENS | N | N | Moderate |
| 403 | Upgraded track | 167 | N | 0 | | Υ | 221 | | N | 471 | GREGADOO | N | N | High |
| 404 | New track | 122 | N | 231 | | N N | 543 | MCGREGORS | N N | 474 | LONG | N N | Y | Moderate Moderate |
| 405 406 | New track New track | 54 91 | N N | 156 | DICKS | N N | 289 110 | ROCKY | N N | 479 480 | ROCKY | N N | N N | High |
| 405 | Upgraded track | 0 | Y | 172 311 | טוכעס | N N | 206 | HUMES | N N | 480 | HUMES | N N | N N | High |
| 408 | New track | 0 | Ÿ | 442 | WILSONS | N | 482 | WILSONS | N | 488 | ADELONG | N | N | High |
| 409 | Upgraded track | 334 | N | 1260 | | N | 1273 | | N | 490 | KYEAMBA | N | Υ | Low |
| 410 | Upgraded track | 0 | Y | 0 | | Y | 280 | | N | 492 | | N | N | High |
| 411 | New track | 198 | N | 90 442 | | N | 1535 | UNCLES | N N | 498 | NACKI NACKI | N N | Y | High Low |
| 412 413 | Upgraded track New track | 166 0 | N V | 0 | | N V | 1638 19 | | N | 507 508 | TYWONG MEADOW | N N | N N | High |
| 414 | Upgraded track | 46 | N | 12 | | N | 1881 | WILSONS | N | 510 | ADELONG | N | Y | Moderate |
| 415 | Upgraded track | 0 | Y | 1391 | | N | 997 | *************************************** | N | 512 | KYEAMBA | N | N | High |
| 416 | Upgraded track | 99 | N | 179 | | N | 929 | | N | 514 | FOLEYS | N | N | Low |
| 417 | New track | 223 | N | 121 | | N | 913 | | N | 514 | FOLEYS | N | Υ | Moderate |
| 418 | Upgraded track | 0 | Y | 52 7 | | N | 325 | Oldbriene | N | 518 | Oldbiene | N | N Y | High High |
| 419 420 | New track New track | 122 0 | N Y | 185 | | N N | 564 261 | O'BRIENS | N N | 522 523 | O'BRIENS DERRINGULLEN | N N | Y V | High |
| 421 | Upgraded track | 0 | Y | 155 | | N | 461 | | N | 525 | KILLIMICAT | N | N | High |
| 422 | Upgraded track | 9 | N N | 124 | | N | 234 | | N | 526 | MEADOW | N | Ϋ́ | Moderate |
| 423 | New track | 0 | Υ | 0 | | Υ | 419 | | N | 526 | STOCKMANS | N | Υ | High |
| 424 | Upgraded track | 0 | Y | 199 | | N | 535 | | N | 529 | BANNABY | N | N | High High |
| 425 426 | New track | 0 | Y | 209 316 | | N N | 907 344 | WINDOWIE | N N | 529 530 | WINDOWIE ADELONG | N N | N | High |
| 427 | Upgraded track Upgraded track | 0 | v v | 0 | | V | 324 | | N N | 531 | O'BRIENS | N N | N N | High |
| 428 | Upgraded track | 131 | N N | 274 | | N N | 516 | MANDYS | N N | 536 | MANDYS | N N | Y | Low |
| 429 | Upgraded track | 0 | Υ | 159 | | N | 534 | MEADOW | N | 536 | MEADOW | N | N | High |
| 430 | New track | 17 | N | 239 | | N | 462 | | N | 536 | BOWNING | N | N | High |
| 431 | New track | 0 | Y | 286 0 | | N Y | 522 | | N N | 537 | COOKS | N N | N N | High High |
| 432 433 | New track New track | 0 | Y V | 145 | | N N | 578 677 | | N N | 539 540 | KILLIMICAT BOWNING | N N | N V | High |
| 434 | New track | 0 | Ÿ | 0 | | Y | 318 | BURNT HUT | N N | 542 | WOOLGARLO | N N | N N | High |
| 435 | Upgraded track | 45 | N | 381 | | N | 808 | | N | 544 | | N | N | Moderate |
| 436 | Upgraded track | 45 | N | 505 | | N | 581 | WALKER | N | 546 | GILMORE | N | Υ | Moderate |
| 437 | Upgraded track | 0 | Y | 0 | | Y | 5 | | N | 552 | TOOLES | N | N | High High |
| 438 439 | New track New track | 9 44 | N N | 512 216 | | N N | 259 582 | | N N | 557 557 | COMATAWA STEEVES | N N | <u>ү</u> У | High |
| 440 | Upgraded track | 47 | N N | 102 | | N N | 34 | | N N | 559 | KILLIMICAT | N | Y | Moderate |
| 441 | Upgraded track | 0 | Y | 232 | | N | 1639 | MERRILL | N | 559 | MERRILL | N | Ň | High |
| 442 | Upgraded track | 0 | Y | 182 | | N | 332 | | N | 559 | KEAJURA | N | N | High |
| 443 | Upgraded track | 0 | Y | 0 | LITTLE SANDY | Υ | 618 | | N | 561 | WASHPEN | N | N | High |
| 444 445 | Upgraded track Upgraded track | 98 0 | N Y | 175 336 | | N N | 1159 673 | | N N | 562 566 | FOLEYS TOOLES | N N | Y | Low High |
| 445 446 | New track | 0 | Y | 337 | | N N | 702 | | N N | 566 | SANDY | N N | N Y | High |
| 447 | New track | 23 | N | 387 | | N | 1024 | | N | 566 | KERRAWARY | N | Y | High |
| 448 | New track | 395 | N | 598 | O'BRIENS | N | 704 | CART ROAD | N | 567 | CART ROAD | N | N | Moderate |
| 449 | Upgraded track | 48 | N | 221 | | N | 130 | THREE | N | 571 | MANTONS | N | N | Moderate |
| 450 | New track | 0 | Y | 422 | | N | 14 | WOOLGARLO | N | 572 | WOOLGARLO | N | Y | High High |
| 451 452 | New track Upgraded track | 0 73 | Y N | 79 106 | | N N | 816 516 | | N N | 575 577 | SANDY DERRINGULLEN | N N | N N | Low |
| 453 | New track | 0 | Y | 135 | | N N | 297 | | N N | 583 | BANNABY | N N | Y | High |
| 454 | New track | 0 | Ÿ | 82 | | N | 157 | | N | 583 | KILLIMICAT | N | Ň | High |
| 455 | New track | 34 | N | 203 | | N | 404 | MCCULLUMS | N | 583 | WASHPEN | N | Υ | High |
| 456 | New track | 0 | Y | 0 | | Y | 364 | | N | 584 | WINDOWIE | N | N | High |
| 457 | Upgraded track | 18 | N | 282 | | N | 794 | MACCHILLIPM | N | 587 | WOLLONDILLY | N | N | Moderate Moderate |
| 458 459 | Upgraded track | 14 65 | N N | 201 380 | WILSONS | N N | 66 1179 | MCCULLUMS WILSONS | N N | 590 591 | WASHPEN ADELONG | N N | N N | Moderate |
| 460 | New track New track | 6 | N N | 874 | WILDUIND | N N | 487 | BUNTON | N N | 591 | FLACKNELL | N N | N N | High |
| 461 | Upgraded track | 25 | N | 331 | | N | 421 | DOIVION | N N | 601 | YAVEN YAVEN | N | N N | Moderate |
| | | | N | 368 | | N | 0 | BACK | - ;; | 602 | MIDDLE | N N | N N | High |

Table F-1 Access Track Analysis

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|----------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|---------------------------|---------------------------|------------------|--|
| 463 | New track | 0 | Υ | 272 | | N | 778 | FOREST | N | 607 | KERRAWARY | N | N | High |
| 464 465 | Upgraded track | 144 0 | N | 71 87 | | N N | 0 419 | SHARPS | Y N | 609 609 | SHARPS KILLIMICAT | N N | N N | High High |
| 466 | Upgraded track New track | 114 | N N | 20 | | N N | 680 | | N N | 610 | BANGO | N N | N N | High |
| 467 | Upgraded track | 355 | N | 192 | | N | 848 | | N | 613 | BAGO | N | Y | Low |
| 468 | Upgraded track | 38 | N | 911 | | N | 547 | BUNTON | N | 614 | FLACKNELL | N | N | Moderate Low |
| 469 470 | Upgraded track New track | 125 48 | N N | 467 286 | | N N | 1325 1012 | WINDOWIE | N N | 614 614 | UMBANGO WINDOWIE | N N | N V | High |
| 471 | Upgraded track | 185 | N | 293 | | N | 280 | WINDOWIE | N | 617 | WINDOWIE | N | N | Low |
| 472 | Upgraded track | 0 | Υ | 400 | | N | 881 | FOXES | N | 619 | HONEYSUCKLE | N | N | High |
| 473 474 | Upgraded track Upgraded track | 50 0 | N Y | 302 96 | | N N | 650 366 | FOREST | N N | 621 624 | KERRAWARY KILLIMICAT | N N | N N | Moderate High |
| 474 | Upgraded track | 0 | Y | 26 | | N N | 335 | | N N | 625 | KILLIMICAT | N N | Y Y | High |
| 476 | Upgraded track | 91 | N | 340 | | N | 794 | MCCULLUMS | N | 626 | WASHPEN | N | N | Low |
| 477 | New track | 0 | Y | 423 | | N | 0 | WOOLGARLO | Y | 626 | WOOLGARLO | N | Y | High |
| 478 479 | Upgraded track Upgraded track | 0 | Y | 81 95 | | N N | 585 0 | | N V | 627 628 | BRUNGLE | N N | N N | High High |
| 480 | Upgraded track | 20 | N | 29 | | N N | 357 | | N N | 628 | DARLOWS | N N | N | Moderate |
| 481 | Upgraded track | 224 | N | 123 | | N | 0 | SHARPS | Υ | 630 | SHARPS | N | N | High |
| 482 | Upgraded track | 0 | Υ | 364 | | N N | 304 | GERMANS | N | 638 | ADELONG | N | N N | High High |
| 483 484 | Upgraded track New track | 0 | Y V | 93 49 | COCKATOO | N N | 865 71 | COWPERS COCKATOO | N N | 638 639 | COWPERS COCKATOO | N N | N V | High |
| 485 | New track | 0 | Ϋ́ | 0 | COCKATOO | Y | 0 | COCKATOO | Y | 639 | COWPERS | N | N | High |
| 486 | New track | 0 | Υ | 326 | | N | 624 | | N | 641 | LONG | N | N | High |
| 487 | Upgraded track | 191 | N | 507 | | N | 120 | MEADOW | N N | 643 | ADELONG | N N | Y | Moderate High |
| 488 489 | New track New track | 0 | Y | 481 252 | | N N | 685 304 | MEADOW | N N | 644 645 | MEADOW DERRINGULLEN | N N | N | High |
| 490 | New track | 24 | N | 182 | | N | 716 | | N N | 654 | BUDDONG | N | N | High |
| 491 | New track | 0 | Υ | 57 | | N | 379 | | N | 655 | KILLIMICAT | N | N | High |
| 492 | Upgraded track | 222 0 | N | 1525 | WALKED | N V | 878 | MALKED | N N | 656 | O'BRIENS | N | N | Low High |
| 493 494 | Upgraded track New track | 0 | Y | 0 124 | WALKER | N N | 305 2118 | WALKER CART ROAD | N N | 659 659 | GILMORE JUGIONG | N N | N N | High |
| 495 | Upgraded track | 0 | Ý | 180 | | N | 528 | CARTITIONS | N | 662 | KILLIMICAT | N | N | High |
| 496 | Upgraded track | 0 | Υ | 0 | | Υ | 0 | | Υ | 663 | | N | N | High |
| 497 498 | Upgraded track Upgraded track | 0 | Y | 0 | | Y | 328 255 | | N N | 664 666 | MELAMALONG YAVEN YAVEN | N N | N N | High High |
| 498 | New track | 0 | Y | 120 | | N N | 461 | | N N | 666 | KILLIMICAT | N N | N N | High |
| 500 | Upgraded track | 0 | Ý | 21 | | N | 284 | | N | 667 | TARLO | N | N | High |
| 501 | Upgraded track | 0 | Υ | 0 | | Υ | 1200 | | N | 671 | WOLLONDILLY | N | N | High Low |
| 502 503 | Upgraded track New track | 256 0 | N | 341 0 | | N V | 583 59 | | N N | 673 674 | O'BRIENS | N N | N N | High |
| 504 | New track | 0 | Ÿ | 49 | | N N | 885 | | N N | 678 | BRUNGLE | N N | N | High |
| 505 | New track | 2 | N | 376 | DOWLINGS | N | 1313 | DOWLINGS | N | 681 | LACHLAN | N | N | High |
| 506 | Upgraded track | 0 | Y | 300 | | N | 418 | | N | 686 | DERRINGULLEN | N | N | High High |
| 507 508 | New track Upgraded track | 16 0 | N V | 511 110 | | N N | 728 195 | | N N | 687 688 | BANNABY KILLIMICAT | N N | N Y | High |
| 509 | Upgraded track | 0 | Ÿ | 350 | | N | 779 | | N | 690 | TARCUTTA | N | N | High |
| 510 | Upgraded track | 0 | Υ | 55 | | N | 221 | | N | 693 | | N | N | High |
| 511 512 | Upgraded track Upgraded track | 0 21 | Y N | 0 149 | | Y N | 0 271 | | Y N | 699 706 | GOCUP | N N | N N | High Moderate |
| 513 | New track | 5 | N N | 178 | WEIR | N N | 237 | WEIR | N N | 706 | SHEEPYARD | N N | N N | High |
| 514 | New track | 56 | N | 88 | *** | N | 369 | FOREST | N | 707 | KERRAWARY | N | N | High |
| 515 | New track | 0 | Υ | 75 | | N | 1021 | 215 | N | 711 | SAWPIT | N | Y | High |
| 516 517 | Upgraded track Upgraded track | 508 0 | N V | 531 0 | | N V | 277 66 | BAGO | N N | 713 713 | BAGO COMATAWA | N N | Y N | Low High |
| 517 | Upgraded track | 70 | N N | 555 | | N N | 371 | YELLOW CLAY | N N | 713 | OAK | N N | Y | Low |
| 519 | New track | 0 | Ϋ́ | 249 | | N | 870 | WINDOWIE | N | 717 | WINDOWIE | N | N N | High |
| 520 | New track | 0 | Y | 0 | | Y | 284 | | N | 717 | DERRINGULLEN | N | N | High High |
| 521 522 | New track Upgraded track | 1 59 | N N | 40 398 | | N N | 227 432 | | N N | 725 727 | DERRINGULLEN | N N | N Y | Low |
| 523 | New track | 0 | Y | 254 | | N | 291 | | N | 728 | DERRINGULLEN | N | N | High |
| 524 | New track | 0 | Υ | 155 | | N | 637 | MEADOW | N | 742 | MEADOW | N | N | High |
| 525 | Upgraded track | 55 0 | N | 112 0 | | N | 0 | BAGO MEADOW | Y | 744 | BAGO | N N | N N | High High |
| 526 527 | Upgraded track New track | 13 | N N | 297 | | N N | 642 12 | IVIEADUW | N N | 746 748 | MEADOW PEJAR | N N | N Y | High |
| 528 | Upgraded track | 195 | N | 184 | | N | 640 | | N | 756 | TOOLES | N | Ÿ | Low |
| 529 | Upgraded track | 0 | Y | 0 | | Υ | 0 | 0407555 | Y | 760 | RIGHT ARM | N | N | High |
| 530 531 | New track Upgraded track | 6 | N | 117 481 | | N N | 861 1964 | CART ROAD MIDDLE | N N | 762 767 | O'BRIENS MERRILL | N N | N N | High High |
| 531 | Upgraded track | 71 | N N | 481 51 | | N N | 550 | IVIIDULE | N N | 767 | COMATAWA | N N | N N | Moderate |
| 533 | New track | 0 | Ϋ́ | 37 | | N | 0 | WINDOWIE | Y | 776 | WILSONS | N | N | High |
| 534 | New track | 0 | Y | 136 | | N | 557 | O'BRIENS | N | 776 | O'BRIENS | N | N | High |
| 535 536 | New track Upgraded track | 0 218 | Y N | 54 615 | | N N | 79 385 | TURNERS | N N | 791 792 | CONNORS TURNERS | N N | N N | High Low |
| 537 | Upgraded track | 0 | Y | 57 | | N N | 538 | TOMMENS | N N | 794 | COMATAWA | N N | N N | High |
| 538 | Upgraded track | 69 | N | 559 | TURNERS | N | 384 | TURNERS | N | 794 | TURNERS | N | N | Low |
| 539 | New track | 0 | Υ | 0 | | Υ | 105 | FIRST | N | 800 | WOLLONDILLY | N | N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|----------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|---|---------------------------|------------------|--|
| 540 | New track | 0 | Y | 250 | | N | 1014 | | N | 802 | WOLLONDILLY | N | N | High High |
| 541 542 | New track Existing tracks/roads | 0 | Y V | 60 76 | | N N | 312 262 | | N N | 804 806 | DERRINGULLEN | N N | Y N | Moderate |
| 543 | New track | 44 | N | 253 | MELAMALONG | N | 412 | | N | 807 | | N | Y | High |
| 544 | New track | 0 | Υ | 0 | | Y | 157 | | N | 808 | MEADOW | N | Y | High |
| 545 | Upgraded track | 0 | N N | 110 177 | | N N | 623 | BAGO TOMANEYE DI AINI | N N | 809 | LITTLE GILMORE | N N | N | High Low |
| 546 547 | Upgraded track Upgraded track | 86 0 | Y | 80 | | N N | 309 269 | TOMNEYS PLAIN | N N | 810 812 | LONG | N N | N N | High |
| 548 | Upgraded track | 40 | Ň | 501 | | N | 165 | | N | 812 | ADELONG | N | Y | Moderate |
| 549 550 | Upgraded track | 0 | Y | 194 | | N N | 415 | | N N | 813 | MELAMALONG | N N | N | High High |
| 550 551 | Upgraded track Upgraded track | 7 | N N | 99 154 | | N N | 218 919 | UNCLES | N N | 815 815 | NACKI NACKI | N N | N N | Moderate |
| 552 | New track | 17 | N | 120 | | N | 424 | ONCLES | N | 815 | KILLIMICAT | N | N | High |
| 553 | New track | 0 | Υ | 5 | | N | 446 | | N | 817 | MELAMALONG | N | N | High |
| 554 555 | Upgraded track | 59 75 | N N | 266 | | N N | 658 | | N N | 818 | O'BRIENS | N N | Y | Low Moderate |
| 556 | Upgraded track Upgraded track | 0 | Y | 390 39 | | N N | <u>85</u> 0 | BANNABY | N Y | 822 824 | COXS CONNORS | N N | N N | High |
| 557 | Upgraded track | Ö | Ý | 48 | | N | 217 | 5, 1111, 151 | N | 824 | | N | Y | High |
| 558 | New track | 103 | N | 359 | DICKS | N | 409 | | N | 825 | ROCKY | N | N | Moderate |
| 559 560 | Upgraded track | 0 165 | N Y | 47 519 | | N N | 0 316 | YELLOW CLAY | N Y | 828 828 | STEEVES OAK | N N | N | High Moderate |
| 561 | New track Upgraded track | 172 | N N | 348 | | N N | 35 | YELLOW CLAY | N N | 835 | OAK | N N | N N | Moderate |
| 562 | New track | 0 | Ϋ́ | 95 | | N | 229 | STEEVES | N | 835 | STEEVES | N | N | High |
| 563 | Upgraded track | 13 | N | 158 | TURNERS | N | 285 | | N | 848 | TURNERS | N | Y | Moderate |
| 564 | Upgraded track | <u>3</u> 0 | N | 91 | | N N | 798 | WINDOWIE | N N | 852 | BIG SRING | N N | Y | Moderate High |
| 565 566 | New track Upgraded track | 32 | N N | 391 227 | | N N | 931 385 | WINDOWIE | N N | 857 859 | WINDOWIE WOOLGARLO | N N | N N | Moderate |
| 567 | New track | 0 | Ϋ́ | 48 | | N | 95 | | N | 862 | *************************************** | N | Y | High |
| 568 | New track | 275 | N | 0 | DICKS | Y | 89 | ROCKY | N | 868 | ROCKY | N | N | High |
| 569 570 | Upgraded track Upgraded track | 71 0 | N | 36 148 | | N N | 0 311 | YELLOW CLAY | Y N | 872 876 | OAK COOKS | N N | N V | High High |
| 571 | Upgraded track | 51 | N N | 285 | | N N | 1155 | | N N | 877 | BAGO | N N | Y | Low |
| 572 | New track | 92 | N | 321 | | N | 468 | SAW MILL | N | 879 | SAW MILL | N | N N | Moderate |
| 573 | New track | 0 | Υ | 0 | | Υ | 214 | SPRING GROVE | N | 881 | DERRINGULLEN | N | N | High |
| 574 | New track | 84 24 | N N | 517 364 | | N N | 456 426 | SAW MILL | N N | 884 885 | WOOLGARLO SAW MILL | N N | N | Moderate Moderate |
| 575 576 | Upgraded track New track | 0 | Y | 10 | | N N | 1426 | FELLED TIMBER | N N | 888 | JERRAWA | N N | N N | High |
| 577 | New track | 26 | N | 40 | MANTONS | N | 513 | MANTONS | N | 890 | MANTONS | N | N | High |
| 578 | Upgraded track | 183 | N | 0 | MANTONS | Y | 406 | THREE | N | 892 | MANTONS | N | N | High High |
| 579 580 | New track New track | 0 | Y | 239 293 | | N N | 576 512 | MANDYS | N N | 893 893 | MANDYS COOKS | N N | N | High |
| 581 | Upgraded track | 41 | N | 205 | | N | 737 | | N N | 900 | SANDY | N N | N N | Moderate |
| 582 | New track | 0 | Υ | 288 | | N | 308 | KIALLA | N | 902 | MIDDLE | N | Y | High |
| 583 | Upgraded track | 198 | N | 511 | | N | 1149 | COXS | N | 903 | TYWONG | N | N | Low High |
| 584 585 | New track New track | 0 | Y V | 6 128 | | N N | 322 251 | FOREST | N N | 909 910 | KERRAWARY | N N | N N | High |
| 586 | New track | 0 | Y | 150 | | N | 300 | | N | 911 | DERRINGULLEN | N | Y | High |
| 587 | Upgraded track | 0 | Υ | 145 | | N | 818 | | N | 912 | BIG SRING | N | Υ | High |
| 588 589 | New track New track | 0 | Y | 3 | | N Y | 114 588 | CART ROAD | N | 917 926 | GOCUP O'BRIENS | N N | N Y | High High |
| 590 | Upgraded track | 0 | Y | 73 | | N N | 710 | CARTRUAD | N N | 931 | BRUNGLE | N N | N N | High |
| 591 | Upgraded track | 186 | N | 273 | | N | 0 | GERMANS | Ϋ́ | 932 | ADELONG | N | N | High |
| 592 | Upgraded track | 33 | N | 619 | | N | 826 | NACKI NACKI | N | 945 | NACKI NACKI | N | N | Moderate |
| 593 594 | Upgraded track New track | 66 37 | N N | 369 267 | | N N | 0 219 | YELLOW | Y N | 945 946 | COXS BANGO | N N | Y N | High High |
| 595 | Upgraded track | 29 | N N | 230 | | N N | 234 | TELLOW | N N | 947 | COMATAWA | N N | N N | Moderate |
| 596 | Upgraded track | 11 | N | 193 | TOMNEYS PLAIN | N | 0 | | Y | 948 | TOMNEYS PLAIN | N | N | High |
| 597 | New track | 95 | N | 263 | TOMNEYS PLAIN | N | 129 | TOMNEYS PLAIN | N | 949 | TOMNEYS PLAIN | N | N | High High |
| 598 599 | Upgraded track New track | 0 | Y | 0 | DICKS DOWLINGS | Y N | 94 523 | ROCKY DOWLINGS | N N | 951 951 | ROCKY OOLONG | N N | N N | High |
| 600 | Upgraded track | 244 | N N | 542 | DOWLINGS | N | 409 | DOWLINGS | N | 953 | ADELONG | N | Y | Low |
| 601 | Upgraded track | 52 | N | 278 | | N | 346 | | N | 956 | ADELONG | N | N | Low |
| 602 | Upgraded track | 22 | N | 44 | Olphistic | N | 607 | CARTECAR | N | 965 | TARLO | N | N | Moderate Moderate |
| 603 604 | New track Upgraded track | 63 11 | N N | 319 701 | O'BRIENS | N N | 527 825 | CART ROAD | N N | 966 967 | CART ROAD SANDY | N N | Y N | Moderate |
| 605 | Upgraded track | 0 | Y | 56 | | N | 0 | | Y | 967 | | N N | N N | High |
| 606 | Upgraded track | 235 | N | 468 | TOMNEYS PLAIN | N | 339 | TOMNEYS PLAIN | N | 971 | TOMNEYS PLAIN | N | N | Low |
| 607 | New track | 0 | Υ | 148 | WINDOWIE | N | 224 | WINDOWIE | N | 971 | WILSONS | N | N | High Moderate |
| 608 609 | Upgraded track New track | 0 | N V | 211 73 | | N N | 800 539 | | N N | 972 973 | BIG SRING LONG | N N | Y N | High |
| 610 | Upgraded track | 0 | Ý | 205 | | N | 540 | | N | 976 | YAVEN YAVEN | N | N | High |
| 611 | New track | 0 | Υ | 41 | | N | 530 | FIRST | N | 976 | WOLLONDILLY | N | N | High |
| 612 | New track | 0 | Y | 179 | | N | 693 | | N | 977 | BANGO | N | N | High Moderate |
| 613 614 | Upgraded track Upgraded track | 123 0 | N Y | 426 164 | | N N | 34 815 | | N N | 981 986 | COXS SPLITTERS | N N | Y N | High |
| 615 | New track | 66 | N | 326 | | N | 920 | WINDOWIE | N | 986 | WINDOWIE | N | Y | Moderate |
| 616 | New track | 0 | Υ | 937 | | N | 664 | OAKY | N | | MURRUMBIDGEE | N | N | High |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|-------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|--------------------------|---------------------------|------------------|--|
| 617 | Upgraded track | 30 | N | 48 | | N | 420 | SAW MILL | N | 989 | SAW MILL | N | N | Moderate |
| 618 619 | Upgraded track New track | 0 149 | N N | 0 219 | | N N | 313 635 | SPRING GROVE | N N | 991 994 | DERRINGULLEN | N N | N N | High Moderate |
| 620 | Upgraded track | 0 | Ϋ́ | 52 | | N | 434 | SI MINO ONOVE | N | 995 | DEMMINOCELEN | N | N | High |
| 621 | New track | 0 | Y | 114 | | N | 382 | | N | 997 | DERRINGULLEN | N | Y | High |
| 622 623 | New track New track | 190 0 | N V | 360 0 | WILSONS | N Y | 456 65 | COCKATOO FIRST | N N | 999 999 | COCKATOO WOLLONDILLY | N N | N N | Moderate High |
| 624 | New track | 0 | Ÿ | 398 | | N | 614 | TINST | N N | 1004 | DERRINGULLEN | N | Y | High |
| 625 | Upgraded track | 0 | Υ | 0 | | Υ | 840 | | N | 1005 | SANDY | N | N | High |
| 626 627 | New track | 0 4 | Y N | 132 321 | | N | 572 257 | BANNABY | N N | 1007 1014 | KILLIMICAT CONNORS | N N | N V | High High |
| 628 | New track New track | 0 | Y | 178 | | N N | 63 | MCCULLUMS | N | 1014 | WASHPEN | N N | N N | High |
| 629 | New track | 37 | N | 0 | | Υ | 154 | | N | 1018 | MEADOW | N | Y | High |
| 630 | Upgraded track | 110 | N | 285 | | N | 441 | CART ROAD | N | 1019 | CART ROAD | N | Y | Low Moderate |
| 631 632 | New track New track | 317 166 | N N | 238 340 | | N N | 181 660 | GERMANS | N N | 1019 1021 | ADELONG HONEYSUCKLE | N N | Y N | Moderate |
| 633 | New track | 81 | N | 149 | | N | 670 | STOCKMANS | N | 1025 | HONEYSUCKLE | N | Y | Moderate |
| 634 | Upgraded track | 0 | Υ | 142 | | N | 41 | YAVEN YAVEN | N | 1026 | YAVEN YAVEN | N | N | High |
| 635 636 | New track New track | 109 0 | N | 279 284 | | N N | 767 640 | WINDOWIE | N N | 1028 1033 | SANDY WINDOWIE | N N | N N | Moderate High |
| 637 | New track | 0 | Y | 160 | TURNERS | N | 159 | WINDOWIE | N N | 1034 | TURNERS | N N | Y | High |
| 638 | Upgraded track | 0 | Y | 125 | | N | 752 | | N | 1036 | SANDY | N | Ϋ́ | High |
| 639 | Upgraded track | 289 | N | 680 | | N | 215 | SAILORS | N | 1043 | BAGO | N | Y | Low High |
| 640 641 | Upgraded track New track | 0 | Y | 146 183 | | N | 404 2124 | | N N | 1045 1047 | ADELONG | N | N V | High |
| 642 | New track | 0 | Ÿ | 132 | | N | 845 | | N | 1051 | SANDY | N | N | High |
| 643 | Upgraded track | 0 | Υ | 0 | | Υ | 0 | YELLOW CLAY | Υ | 1054 | OAK | N | N | High |
| 644 | New track | 0 | N N | 129 | | N | 543 | FORECT | N | 1056 | DERRINGULLEN | N N | Y N | High High |
| 645 646 | New track New track | 105 0 | Y | 0 | | Y | 550 266 | FOREST | N N | 1063 1067 | KERRAWARY | N N | N Y | High |
| 647 | Upgraded track | Ö | Ϋ́ | 0 | | Ϋ́ | 0 | | Ϋ́ | 1069 | COWPERS | N | N N | High |
| 648 | New track | 0 | Y | 6 | KILEY | N | 266 | KILEY | N | 1069 | SPLITTERS | N | N | High |
| 649 650 | New track Upgraded track | 0 | Y | 0 453 | | Y N | 22 286 | FELLED TIMBER | N N | 1069 1070 | FELLED TIMBER | N N | N N | High High |
| 651 | Upgraded track | 24 | N N | 186 | | N N | 417 | FELLED HIVIBER | N N | 1070 | KILLIMICAT | N N | Y | Moderate |
| 652 | New track | 0 | Y | 0 | | Y | 0 | | Υ | 1070 | GOCUP | N | N | High |
| 653 | New track | 0 | Y | 140 | | N N | 777 | BURNT HUT | N N | 1070 1074 | WOOLGARLO | N N | N N | High High |
| 654 655 | Upgraded track Upgraded track | 106 | N N | 505 87 | TOMNEYS PLAIN | N N | 396 50 | TOMNEYS PLAIN | N N | 1074 | TOMNEYS PLAIN | N N | N V | Moderate |
| 656 | New track | 32 | N | 122 | DOWLINGS | N | 1019 | DOWLINGS | N N | 1076 | LACHLAN | N | Ϋ́ | High |
| 657 | New track | 0 | Υ | 69 | KILEY | N | 759 | KILEY | N | 1082 | SPLITTERS | N | N | High |
| 658 659 | Upgraded track New track | 0 34 | Y N | 74 1023 | | N N | 668 715 | STOCKMANS BUNTON | N N | 1083 1088 | HONEYSUCKLE FLACKNELL | N N | N N | High High |
| 660 | New track | 111 | N | 397 | | N | 610 | BUNTON | N N | 1105 | FLACKINELL | N | Y | Moderate |
| 661 | Upgraded track | 161 | N | 10 | WALKER | N | 344 | WALKER | N | 1107 | GILMORE | N | Υ | Moderate |
| 662 | New track | 16 | N | 264 | | N | 591 | KILEY | N | 1107 | BRUNGLE | N | N N | High High |
| 663 664 | Upgraded track Upgraded track | 0 419 | N N | 196 284 | | N N | 662 80 | YELLOW CLAY | N N | 1113 1119 | COMATAWA OAK | N N | N Y | Moderate |
| 665 | New track | 110 | N | 328 | | N | 381 | TEELOW CE !! | N | 1123 | WOOLGARLO | N | Ϋ́ | Moderate |
| 666 | New track | 30 | N | 28 | | N | 778 | | N | 1123 | | N | N | High High |
| 667 668 | Upgraded track Upgraded track | 0 14 | Y N | 14 148 | | N N | 274 0 | | N V | 1124 1125 | COXS | N N | N N | High |
| 669 | New track | 119 | N | 213 | | N | 368 | KILEY | N | 1125 | SPLITTERS | N | N | Moderate |
| 670 | Upgraded track | 54 | N | 153 | | N | 230 | | N | 1127 | COXS | N | Υ | Low |
| 671 | New track | 10 | N | 9 | | N | 447 | FIRCT | N | 1134 | MELAMALONG | N | N | High Moderate |
| 672 673 | New track New track | 202 0 | N Y | 643 31 | | N N | 511 779 | FIRST MANTONS | N N | 1137 1149 | MIDDLE MANTONS | N N | N N | High |
| 674 | Upgraded track | 4 | N | 840 | | N | 638 | BUNTON | N | 1153 | FLACKNELL | N | N | Moderate |
| 675 | Upgraded track | 46 | N | 435 | | N | 444 | KILEY | N | 1156 | SPLITTERS | N | N | Moderate |
| 676 677 | Upgraded track New track | 0 271 | Y N | 0 164 | | Y N | 0 500 | CART ROAD | Y N | 1162 1166 | O'BRIENS | N N | N V | High Moderate |
| 678 | New track | 0 | Y | 0 | | Y | 0 | KIALLA | Y | 1166 | MIDDLE | N | N N | High |
| 679 | New track | 74 | N | 166 | | N | 658 | | N | 1168 | | N | Υ | Moderate |
| 680 681 | Upgraded track | 0 133 | Y N | 10 721 | | N N | 662 629 | MEADOW | N N | 1172 1178 | | N N | N N | High Low |
| 682 | Upgraded track New track | 38 | N N | 421 | | N N | 282 | YELLOW | N N | 1178 | BANGO | N N | N N | High |
| 683 | Upgraded track | 10 | N | 89 | | N | 405 | YELLOWIN | N | 1185 | MANDYS | N | N | Moderate |
| 684 | New track | 0 | Y | 95 | | N | 369 | | N | 1186 | | N | N | High High |
| 685 686 | Upgraded track Upgraded track | 0 64 | Y N | 32 346 | | N N | 368 134 | YELLOW | N N | 1191 1192 | BANGO | N N | N N | Moderate |
| 687 | New track | 0 | Y | 0 | | Y | 578 | TELLOVV | N N | 1192 | COMATAWA | N N | N N | High |
| 688 | New track | 195 | N | 372 | KILEY | N | 999 | | N | 1198 | SPLITTERS | N | N | Moderate |
| 689 | New track | 0 | Y | 9 403 | | N N | 269 | | N N | 1198 | BANGO | N N | N N | High High |
| 690 691 | Upgraded track New track | 109 | N N | 403 275 | | N N | 1464 435 | CART ROAD | N N | 1201 1206 | BAGO CART ROAD | N N | N Y | Moderate |
| 692 | New track | 133 | N | 419 | | N | 378 | | N | 1210 | PEJAR | N | N | Moderate |
| 693 | Upgraded track | 69 | N | 150 | | N | 131 | CART ROAD | N | 1213 | CART ROAD | N | N | Moderate |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|-------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|----------------------------|---------------------------|--------------------------------------|--------------------------------|---------------------------|------------------|--|
| 694 | New track | 128 | N | 445 | | N | 479 | WINDOWIE | N | 1215 | WINDOWIE | N | N | Moderate |
| 695 | Upgraded track | 189 | N | 529 | | N | 925 | | N | 1225 | ADELONG | N | N | Low High |
| 696 697 | New track | 0 338 | Y N | 524 107 | | N N | 499 34 | FELLED TIMBER YELLOW CLAY | N N | 1226 1229 | FELLED TIMBER OAK | N N | N | High |
| 698 | New track New track | 49 | N N | 200 | | N | 0 | FIRST | Y | 1230 | WOLLONDILLY | N | N | High |
| 699 | Upgraded track | 163 | N | 214 | | N | 223 | CART ROAD | N | 1237 | O'BRIENS | N | N | Low |
| 700 | Upgraded track | 101 | N | 40 | | N | 801 | | N | 1240 | MANDYS | N | Y | Moderate |
| 701 | New track | 31 0 | N V | 449 | | N N | 472 0 | YELLOWIN | N N | 1241 | SHEEPYARD | N N | Y N | High High |
| 702 703 | Upgraded track Upgraded track | 17 | N N | 203 107 | KILEY | N N | 420 | THREE KILEY | N N | 1245 1249 | MANTONS SPLITTERS | N N | N N | Moderate |
| 704 | New track | 0 | Y | 313 | WINDOWIE | N | 0 | WINDOWIE | Y | 1250 | WINDOWIE | N | N | High |
| 705 | New track | 10 | N | 30 | | N | 128 | CART ROAD | N | 1251 | O'BRIENS | N | N | High |
| 706 | Upgraded track | 30 | N N | 635 | | N | 774 | YAVEN YAVEN | N | 1252 | YAVEN YAVEN | N N | Y | Moderate High |
| 707 708 | New track New track | 0 | Y V | 409 132 | | N N | 1027 754 | O'BRIENS | N N | 1255 1255 | SAWPIT O'BRIENS | N N | N N | High |
| 709 | Upgraded track | 0 | Ý | 0 | | Y | 82 | O DIVILING | N | 1259 | COMATAWA | N | N | High |
| 710 | New track | 55 | N | 290 | | N | 1045 | | N | 1260 | KILLIMICAT | N | N | Moderate |
| 711 | New track | 34 | N | 224 | | N | 447 | | N | 1262 | PEJAR | N | Y | High |
| 712 713 | New track Upgraded track | 0 76 | N N | 334 32 | | N N | 2161 571 | | N N | 1264 1265 | JUGIONG MELAMALONG | N N | N N | High Moderate |
| 714 | New track | 96 | N | 859 | | N | 200 | | N N | 1266 | ROCKY | N | Y | Moderate |
| 715 | Upgraded track | 140 | N | 538 | | N | 420 | BANNABY | N | 1269 | | N | N | Low |
| 716 | New track | 29 | N | 0 | | Y | 539 | | N | 1269 | SAW MILL | N | Y | High |
| 717 718 | New track | 169 43 | N N | 258 607 | KILEY | N N | 133 | THREE | N N | 1276 | MANTONS SPLITTERS | N N | Y N | High High |
| 719 | New track Upgraded track | 0 | V | 60 | NILE I | N N | 1080 0 | | V V | 1278 1286 | SPLITTERS | N N | N N | High |
| 720 | New track | 95 | N | 0 | | Ϋ́ | 92 | | N N | 1289 | COOKS | N | N | High |
| 721 | New track | 15 | N | 100 | | N | 251 | | N | 1291 | | N | N | High |
| 722 | Upgraded track | 510 | N | 768 | | N N | 1163 | | N | 1292 | ADELONG | N N | Y | Low |
| 723 724 | Upgraded track Upgraded track | 61 62 | N N | 254 0 | | N V | 632 17 | | N N | 1294 1301 | | N N | N V | Low High |
| 725 | New track | 02 | Y | 244 | | N | 1094 | FELLED TIMBER | N N | 1305 | FELLED TIMBER | N | N | High |
| 726 | New track | 232 | N N | 792 | | N | 1060 | FELLED TIMBER | N | 1308 | FELLED TIMBER | N | N | Moderate |
| 727 | Upgraded track | 20 | N | 556 | | N | 797 | | N | 1309 | YAVEN YAVEN | N | Υ | Moderate |
| 728 | New track | 96 0 | N | 0 | MIDDLE | Y | 1276 | MIDDLE | N N | 1318 | MERRILL | N N | N | High High |
| 729 730 | New track Upgraded track | 0 | Y V | 129 0 | LITTLE GILMORE | N V | 1019 428 | OAKY LITTLE GILMORE | N N | 1321 1327 | MURRUMBIDGEE LITTLE GILMORE | N N | N N | High |
| 731 | Upgraded track | 0 | Ý | 412 | LITTLE GILWONL | N | 904 | COXS | N | 1329 | TYWONG | N | N | High |
| 732 | Upgraded track | 24 | N | 512 | | N | 494 | YAVEN YAVEN | N | 1331 | YAVEN YAVEN | N | Υ | Moderate |
| 733 | New track | 43 | N | 164 | 54187/11015 | N | 509 | | N | 1338 | 60046 | N | N | High |
| 734 735 | New track New track | 2 127 | N N | 240 281 | FAIRY HOLE | N N | 490 309 | YELLOWIN | N N | 1339 1341 | COOKS SHEEPYARD | N N | <u>ү</u> | High Moderate |
| 736 | Upgraded track | 179 | N | 557 | | N | 1521 | TELLOVVIIN | N N | 1350 | ADELONG | N | N N | Low |
| 737 | Upgraded track | 167 | N | 628 | | N | 112 | | N | 1353 | TOMNEYS PLAIN | N | Y | Moderate |
| 738 | Upgraded track | 0 | Υ | 295 | | N | 231 | YAVEN YAVEN | N | 1355 | YAVEN YAVEN | N | Υ | High |
| 739 740 | Upgraded track | 154 | N N | 0 343 | DICKS | Y N | 458 774 | ROCKY | N N | 1359 1360 | COXS ROCKY | N N | Y N | High Low |
| 741 | Upgraded track Upgraded track | 53 0 | N V | 0 | DICKS | N V | 624 | RUCKY | N N | 1374 | COMATAWA | N N | N N | High |
| 742 | New track | 0 | Ÿ | 233 | | N N | 1283 | | N | 1374 | SANDY | N | N | High |
| 743 | Upgraded track | 103 | N | 112 | | N | 105 | CART ROAD | N | 1376 | CART ROAD | N | N | Moderate |
| 744 | New track | 0 | Y | 0 | | Y | 0 | KIALLA | Y | 1382 | MIDDLE | N N | N N | High |
| 745 746 | Upgraded track Upgraded track | 60 20 | N N | 123 290 | | N N | 928 558 | LITTLE GILMORE | N N | 1383 1385 | LITTLE GILMORE | N N | N N | Low Moderate |
| 747 | Upgraded track | 217 | N N | 644 | | N N | 370 | SAILORS | N N | 1385 | BAGO | N N | N N | Low |
| 748 | Upgraded track | 0 | Y | 170 | | N | 599 | BAGO | N | 1389 | LITTLE GILMORE | N | N | High |
| 749 | Upgraded track | 180 | N | 80 | | N | 59 | | N | 1395 | | N | N | Moderate Moderate |
| 750 751 | Upgraded track Upgraded track | 13 | N N | 193 184 | LITTLE GILMORE | N N | 487 487 | LITTLE GILMORE | N N | 1401 1403 | LITTLE GILMORE | N N | Y | Moderate |
| 752 | Upgraded track | 221 | N N | 574 | LITTLE GILIVIONE | N N | 2158 | LITTLE GILIVIONE | N N | 1410 | ADELONG | N N | N N | Low |
| 753 | Upgraded track | 0 | Υ | 560 | | N | 1896 | | N | 1410 | ADELONG | N | N | High |
| 754 | New track | 7 | N | 211 | | N | 901 | | N | 1414 | WINDOWIE | N | N | High |
| 755 | Upgraded track | 341 | N N | 824 | | N N | 1073 | GERMANS | N | 1416 | ADELONG | N N | N N | Low High |
| 756 757 | Upgraded track New track | 261 56 | N N | 239 774 | | N N | 0 900 | OAKY | N N | 1418 1421 | ADELONG MURRUMBIDGEE | N N | N N | Moderate |
| 758 | New track | 10 | N | 156 | | N | 650 | YELLOW | N | 1421 | MANTONS | N | Y | High |
| 759 | Upgraded track | 211 | N | 528 | | N | 721 | | N | 1423 | YAVEN YAVEN | N | N | Low |
| 760 | Upgraded track | 0 | Y | 54 | | N | 594 | VELLOWIN | N | 1429 | VELLOWARE | N | N | High High |
| 761 762 | Upgraded track | 0 56 | Y N | 98 459 | | N N | 81 748 | YELLOWIN LITTLE GILMORE | N N | 1432 1434 | YELLOWIN LITTLE GILMORE | N N | N N | Low |
| 763 | Upgraded track Upgraded track | 118 | N N | 587 | | N N | 600 | LITTLE GILIVIORE | N N | 1434 | LONG | N N | Y | Low |
| 764 | New track | 0 | Ÿ | 295 | | N | 402 | | N | 1438 | | N | N N | High |
| 765 | New track | 2 | N | 56 | | N | 110 | MCCULLUMS | N | 1439 | WASHPEN | N | N | High |
| 766 | New track | 0 40 | Y | 9 | DICKE | N | 0 575 | FELLED TIMBER | Y | 1443 | FLACKNELL | N | N | High High |
| 767 768 | New track Upgraded track | 40 304 | N N | 163 501 | DICKS | N N | 575 425 | ROCKY | N N | 1446 1450 | ROCKY | N N | N Y | Low |
| 769 | Upgraded track | 193 | N | 641 | | N | 377 | | N | 1458 | LONG | N | Ÿ | Low |
| 770 | New track | 132 | N | 141 | | N | 15 | YELLOW | N | 1458 | BANGO | N | N | High |

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|--------------------|----------------------------------|--------------------------------------|---------------------------|--------------------------------------|----------------------------|---------------------------|--------------------------------------|-----------------------------|---------------------------|--------------------------------------|-----------------------------|---------------------------|------------------|--|
| 771 | Upgraded track | 15 | N | 0 | | Υ | 921 | | N | 1460 | SANDY | N | N | High |
| 772 | New track | 10 | N | 278 | | N | 482 | SPRING GROVE | N | 1461 | DERRINGULLEN | N | Ϋ́ | High |
| 773 | New track | 104 | N | 143 | | N | 46 | FELLED TIMBER | N | 1461 | FELLED TIMBER | N | N N | High |
| 774 775 | Upgraded track Upgraded track | 199 46 | N N | 605 173 | | N N | 875 224 | YELLOWIN | N N | 1462 1463 | LONG SHEEPYARD | N N | Y | Low Moderate |
| 776 | Upgraded track | 0 | Y | 130 | | N | 906 | TELLOWIN | N N | 1466 | WINDOWIE | N N | N N | High |
| 777 | Upgraded track | 87 | N | 204 | | N | 217 | YELLOWIN | N | 1471 | SHEEPYARD | N | N | Low |
| 778 | New track | 6 | N | 203 | | N | 242 | COW HORN | N | 1471 | KERRAWARY | N | N | High High |
| 779 780 | New track Upgraded track | 0 12 | N Y | 257 222 | | N N | 246 912 | COW HORN | N N | 1471 1472 | KERRAWARY WINDOWIE | N N | N N | Moderate |
| 781 | Upgraded track | 195 | N N | 678 | | N N | 1422 | YAVEN YAVEN | N N | 1473 | BAGO | N | Y | Low |
| 782 | Upgraded track | 0 | Ϋ́ | 56 | | N | 182 | SHARPS | N | 1474 | SHARPS | N | N | High |
| 783 | New track | 60 | N | 253 | | N | 815 | MOUNT PLEASANT | N | | MOUNT PLEASANT | N | Y | Moderate High |
| 784 785 | Upgraded track Upgraded track | 0 95 | N Y | 299 24 | COW HORN LITTLE GILMORE | N N | 592 575 | COW HORN LITTLE GILMORE | N N | 1481 1484 | KERRAWARY LITTLE GILMORE | N N | N | Moderate |
| 786 | New track | 0 | Y | 375 | LITTLE GILIVIORE | N | 780 | BURNT HUT | N N | 1491 | WOOLGARLO | N N | N N | High |
| 787 | Upgraded track | 10 | N | 0 | | Y | 568 | LITTLE GILMORE | N | 1492 | LITTLE GILMORE | N | N | High |
| 788 | Upgraded track | 289 | N | 816 | | N | 958 | | N | 1497 | PEJAR | N | N | Low High |
| 789 790 | Upgraded track Upgraded track | 0 103 | N N | 96 252 | | N N | 689 739 | LITTLE GILMORE YELLOW | N N | 1498 1498 | LITTLE GILMORE MANTONS | N N | N | Low |
| 791 | Upgraded track | 0 | Y | 293 | | N N | 950 | LITTLE GILMORE | N N | 1501 | LITTLE GILMORE | N | Y | High |
| 792 | New track | 7 | N | 227 | | N | 491 | WALKER | N | 1503 | GILMORE | N | N | High |
| 793 | New track | 0 | Y | 110 | | N | | MOUNT PLEASANT | N | 1503 | MOUNT PLEASANT | N | N | High |
| 794 795 | New track Upgraded track | 0 | Y | 27 65 | COW HORN | N N | 187 642 | COW HORN MOUNT PLEASANT | N N | 1507 1512 | KERRAWARY MOUNT PLEASANT | N N | N V | High High |
| 796 | Upgraded track | 4 | N | 0 | | Y | 35 | THREE | N | 1512 | MANTONS | N | N N | High |
| 797 | Upgraded track | 0 | Ϋ́ | Ö | | Ý | 113 | THREE | N | 1514 | MANTONS | N | N | High |
| 798 | New track | 117 | N | 726 | | N | 1266 | | N | 1522 | KILLIMICAT | N | N | Moderate |
| 799 800 | Upgraded track New track | 147 140 | N N | 731 13 | DAWSONS FLAT | N N | 1154 | YAVEN YAVEN DAWSONS FLAT | N N | 1531 1540 | BAGO MYRTLE | N N | N N | Low High |
| 801 | Upgraded track | 0 | Y | 0 | DAWSONS FLAT | Y | 326 418 | MODDER | N N | 1545 | LONG | N N | N N | High |
| 802 | Upgraded track | 215 | N | 262 | | N N | 32 | YELLOW | N | 1553 | BANGO | N | N | Moderate |
| 803 | New track | 68 | N | 433 | | N | 854 | | N | 1564 | O'BRIENS | N | Υ | Moderate |
| 804 | New track | 18 | N N | 672 745 | | N | 461 | | N N | 1573 | ROCKY | N | N N | High Low |
| 805 806 | Upgraded track New track | 171 95 | N N | 464 | | N N | 1063 560 | | N N | 1574 1574 | PEJAR ROCKY | N N | Y V | Moderate |
| 807 | New track | 0 | Y | 241 | | N | 204 | BANNABY | N | 1574 | NOCKI | N | Ÿ | High |
| 808 | Upgraded track | 0 | Υ | 0 | | Y | 731 | JOHNSONS | N | 1586 | GILMORE | N | N | High |
| 809 | Upgraded track | 31 | N N | 348 | | N N | 203 | YELLOW | N N | 1589 | MANITONIC | N | N N | Moderate High |
| 810 811 | New track Upgraded track | 50 0 | N V | 232 435 | | N N | 374 734 | GERMANS | N N | 1592 1593 | MANTONS YAVEN YAVEN | N N | N N | High |
| 812 | Upgraded track | 164 | N N | 88 | | N | 47 | YAVEN YAVEN | N | 1601 | YAVEN YAVEN | N | Ϋ́Υ | Moderate |
| 813 | Upgraded track | 225 | N | 89 | | N | 0 | YELLOW | Υ | 1602 | BANGO | N | N | High |
| 814 815 | New track | 0 101 | Y N | 0 428 | | Y N | 0 376 | YELLOWIN WINDOWIE | Y N | 1618 1618 | SHEEPYARD WINDOWIE | N N | N N | High Moderate |
| 816 | New track Upgraded track | 0 | Y | 428 2 | | N N | 0 | YAVEN YAVEN | Y | 1624 | YAVEN YAVEN | N N | N N | High |
| 817 | New track | 0 | Ϋ́ | 412 | | N | 137 | WINDOWIE | N | 1624 | ADELONG | N | Ϋ́ | High |
| 818 | New track | 0 | Υ | 41 | | N | 592 | COCKATOO | N | 1625 | HINDMARSH | N | N | High |
| 819 820 | Upgraded track New track | <u>4</u> 0 | N N | 153 0 | OAKY | N | 617 610 | PLAIN OAKY | N N | 1627 1629 | LONG MURRUMBIDGEE | N N | N N | Moderate High |
| 820 | New track | 0 | Y V | 121 | UAKY | N N | 404 | UAKY | N N | 1637 | MURKUMBIDGEE | N N | N N | High |
| 822 | New track | 88 | N | 179 | BIG ROCK | N | 734 | MEADOW | N | 1645 | | N | N | Moderate |
| 823 | Upgraded track | 209 | N | 294 | | N | 146 | GERMANS | N | 1647 | ADELONG | N | Y | Moderate |
| 824 825 | New track New track | 14 50 | N N | 344 611 | | N N | 756 997 | | N N | 1648 1652 | SAWPIT | N N | Y | High High |
| 825 826 | New track | 0 | Y | 461 | | N N | 633 | | N N | 1655 | SMVVPII | N N | Y | High |
| 827 | New track | 0 | Y | 102 | MIDDLE | N | 1482 | MIDDLE | N | 1658 | MERRILL | N | N | High |
| 828 | Upgraded track | 11 | N | 100 | | N | 74 | YELLOWIN | N | 1659 | SNUBBA | N | N | Moderate |
| 829 830 | Upgraded track Upgraded track | 0 336 | Y N | 595 849 | | N N | 459 2018 | BUNTON | N N | 1662 1663 | FLACKNELL ADELONG | N N | N N | High Low |
| 831 | Upgraded track | 0 | Y | 0 | | Y | 760 | | N N | 1673 | COMATAWA | N N | N N | High |
| 832 | New track | 95 | N | 332 | | N | 519 | SPRING GROVE | N | 1674 | DERRINGULLEN | N | Ϋ́ | Moderate |
| 833 | Upgraded track | 0 | Y | 151 | BLACK RANGE | N | 1094 | BOGOLONG | N | 1677 | CARROLLS | N | N | High |
| 834 835 | Upgraded track Upgraded track | 128 0 | N | 436 0 | COXS | N | 837 755 | GERMANS COXS | N N | 1687 1687 | YAVEN YAVEN TYWONG | N N | Y N | Low High |
| 836 | Upgraded track | 0 | Y | 92 | COAS | N N | 452 | MOUNT PLEASANT | N N | | MOUNT PLEASANT | N | N N | High |
| 837 | New track | 111 | N | 565 | | N | 2363 | | N | 1698 | JUGIONG | N | Y | Moderate |
| 838 | New track | 14 | N | 364 | | N | 721 | | N | 1699 | W0016:-:- | N | Y | High |
| 839 840 | New track Upgraded track | 0 286 | Y N | 167 876 | | N N | 338 1141 | SHARPS | N N | 1703 1711 | WOOLGARLO ADELONG | N N | Y N | High Low |
| 840 | Upgraded track | 331 | N N | 878 | | N N | 2006 | SHARPS | N N | 1711 | ADELONG | N N | Y | Low |
| 842 | New track | 0 | Y | 284 | ROCKY | N | 825 | ROCKY | N | 1724 | ROCKY | N | N N | High |
| 843 | Upgraded track | 11 | N | 162 | COXS | N | 914 | COXS | N | 1728 | TYWONG | N | Y | Moderate |
| 844 845 | New track New track | 24 44 | N N | 350 | | N N | 654 505 | BAGO | N N | 1737 1742 | BAGO | N N | Y | High High |
| 845 846 | Upgraded track | 0 | Y | 678 | | Y | 505 | BAGO | N N | 1742 | LITTLE GILMORE | N N | N N | High |
| 847 | Upgraded track | 35 | N | 0 | | N | 552 | | N | 1751 | | N | N | Moderate |

| March Marc | Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--|--------------------|----------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|------------------|--|
| Proceedings | | | | N | | | | | YELLOW CLAY | | | OAK | | N | Moderate |
| Description Company | | | | Y | | | | | COCKATOO | | | COCKATOO | | Y | |
| Section Company Comp | | | | Y | | | | | COCKATOO | | 1763 | COCKATOO | | Y | High |
| See Mexicust 76 | 852 | | | N | | | | 0 | YELLOW | Ϋ́ | | BANGO | N | N | High |
| Section Proceed from Process | | | | | | | | | PLAIN | | | | | Y | Moderate |
| Section Sect | | | 76 | | | | | | | | 1775 | | | N v | Moderate |
| ST | | | | | | | | | | | | | | Y | |
| PRO | 857 | Upgraded track | 117 | | | | | 187 | | N | 1791 | YAVEN YAVEN | | Υ | |
| Second Control Contr | | | | Y | | | | | | | | | | | |
| Main | | | | N N | | JOHNSONS | | | WALKER | | | | | Y | Moderate |
| See Merchant 0 | | | | Y | 410 | DICKS | Υ | 967 | ROCKY | | | ROCKY | N | N | |
| Section Sect | | | | Y | | FAIRY HOLE | | | | | | | | Y | |
| Best | | | | Y N | | | | | | | | | | | High |
| See Upstracket proc. 132 N. 134 N. 0 GERMANS Y 1328 ADELONG N. N. High See N. 33 YELLOWN N. 1451 SEE | | | | Y | | | | | | Y | | | | | High |
| 868 Nov track 35 | 866 | Upgraded track | | | 134 | | N | | GERMANS | Υ | 1834 | ADELONG | | - '' | |
| Bee New Interior Sec. N 261 N 232 YELLOW N 1866 MANTONS N Y Modern Manton | | | 14 | | | | Y | | KIALLA | | | | | N V | |
| STO Useraded track SS | | | 56 | | | | | | | | | | | Y | Moderate |
| ST2 | | | 88 | | | | Ϋ́ | | PLAIN | | 1851 | | | N N | High |
| Rev Track | 871 | | | | | | N | 762 | | | | | | Y | |
| SYA New track 0 | | | | N V | | | Y N | | | | | | | | |
| ST5 | 874 | | | Y | | | | | BURINI HUI | | | | | Y | High |
| ## 1977 Ubersided track | 875 | New track | | Υ | 202 | | | 388 | | | 1902 | FLACKNELL | | N | |
| B78 | 876 | | | Y | 333 | | | | | | | OAK | | N N | |
| 879 New track 101 N 405 N 1643 OARY N 1956 MURRIMBIOGEE N Y Moder N 1880 New track 43 N N 542 COCKATOO N N N MODER N 1881 N 14 YORKERS N 554 COCKATOO N 18 N 1898 COCKATOO N N N MODER N 1882 Upor aded track 133 N 14 YORKERS N 159 COCKATOO N N N MODER N 1898 COCKATOO N N N MODER N 1898 TYMONG N N N MODER N N 1898 TYMONG N N N MODER N N 1898 TYMONG N N N MODER N N N 1898 TYMONG N N N MODER N N N 1898 TYMONG N N N MODER N N N 1898 TYMONG N N N MODER N N N N N N N N N N N N N N N N N N N | | | | | | | | | | | | LONG | | N Y | |
| 881 Upgraded track 353 N 147 YORKENS N 569 LOGBINDGE N 1975 YORKENS N Y LOW AND ADDRESS N Y LOW AND ADDRESS N 147 ORKENS N 147 ORKENS N 1589 TYOLOW N 1975 BANKGO N N N N MOGRET N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N Y LOW AND ADDRESS N N 1570 BANKGO N N N MOGRET N 1570 BANKGO N N N MOGRET N 1570 BANKGO N N N MOGRET N 1570 BANKGO N N N 1570 BANK | 879 | | 101 | N | 405 | | N | 1643 | OAKY | N | 1956 | MURRUMBIDGEE | N | Y | Moderate |
| 882 Upgraded track 153 N 1.14 N 139 YELLOW N 1379 BANGO N N MODERS N 1398 STYMONG N N N N High Part N 150 N 150 N 150 N 150 N N N N N N N N N N N N N N N N N N N | | | | | | | | | | | | | | N | |
| 888 Upgraded track 0 Y 0 O N 179 885 Upgraded track 0 Y 0 O N 179 885 Upgraded track 0 Y 0 O N 179 885 Upgraded track 176 887 Upgraded track 176 887 Upgraded track 176 888 Upgraded track 176 889 Upgraded track 176 889 Upgraded track 176 889 Upgraded track 176 889 Upgraded track 187 889 Upgraded track 188 880 Upgraded track 188 881 Upgraded track 188 882 Upgraded track 188 883 Upgraded track 188 884 Upgraded track 188 885 Upgraded track 188 886 Upgraded track 188 887 Upgraded track 188 889 Upgraded track 188 889 Upgraded track 188 880 Upgraded track 188 880 Upgraded track 188 880 Upgraded track 188 881 Upgraded track 188 882 Upgraded track 188 883 Upgraded track 188 884 Upgraded track 188 885 Upgraded track 188 886 Upgraded track 188 887 Upgraded track 188 888 Upgraded track 188 889 Upgraded track 188 880 Upgraded tr | 881 | | | | | YORKERS | | | LOGBRIDGE | | | | | Y N | Moderate |
| 884 Upgraded track 0 | | | | Y | | COXS | Y | | COXS | | | | | | High |
| 886 Upgraded track 176 N 342 N 910 YORKERS Y 106 LOBBIDGE N 2013 YORKERS N Y High | | Upgraded track | | Y | | | | | | | | | | | |
| 887 Upgraded track 288 N 910 YORKERS Y 106 LOGBRIDGE N 2013 YORKERS N Y High 888 Upgraded track 48 N 0 0 MCCULUMS N 2015 WASHERN N N N MOGRET SERVICE | | | | Y | | | | | | | | | | N | |
| 888 Upgraded track 48 N O N 60 MCCULLUMS N 2015 WASHPEN N N MOGRET B889 Upgraded track 0 Y 236 MOUNT PLEASANT N 741 MOUNT PLEASANT N N 2019 MOUNT PLEASANT N N N High 890 Upgraded track 159 N 465 N 655 N 625 COCKATOO N 2021 COCKATOO N 7 Y Low 100 MOUNT PLEASANT N 1 N 1 High 891 Upgraded track 159 N 465 N 1 100 ROCKY N 2021 MURRIUMBUGE N N Y High 893 Upgraded track 4 N 1 100 ROCKY N 2021 MURRIUMBUGE N N Y High 893 Upgraded track 4 N 1 N 1 10 N 1 100 ROCKY N 2023 MURRIUMBUGE N N Y High 893 Upgraded track 47 N N 72 N 72 N 738 N 738 N 1 100 ROCKY N 2023 MURRIUMBUGE N N Y High 893 Upgraded track 21 N N 72 N 738 N 738 N 1 100 ROCKY N N 2035 COCKATOO N N 2035 COCKATOO N N Y MOGRET 895 New track 39 N 490 Y 59 THRE N 2048 MANTONS N N N High 895 Upgraded track 136 N N 0 GERMANS N 605 GERMANS N 2052 YAVEN NAVEN N N N MOGRET 897 Upgraded track 100 N Y 551 GERMANS N 1 005 GERMANS N 2052 YAVEN NAVEN N N N MOGRET 897 Upgraded track 0 N Y 848 N 1 125 N 1 N 125 N 1 N 126 N 1 N 126 N 1 N 126 N 1 N 127 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N | | | | | | YORKERS | Y | | | | | | | Y | |
| 890 Upgraded track 159 N 465 N 625 COCKATOO N 2021 COCKATOO N Y Low | 888 | | 48 | | 0 | | N N | 60 | MCCULLUMS | | 2015 | WASHPEN | | N N | Moderate |
| 891 Upgraded track 0 | | | | Y | | MOUNT PLEASANT | | | | | | | | N | |
| 892 New track 358 N 164 Y 0 THREE Y 2025 MANTONS N N High | | | | N V | | | | | | | | | | Y | |
| 894 Upgraded track 21 | | | | N | | | | | | | | | | N N | High |
| 895 New track 39 | 893 | Upgraded track | 47 | | 0 | | | 650 | | | 2035 | | | Υ | Moderate |
| 896 Upgraded track 186 N | | | | | | | N Y | | TUDEE | | | MANITONIC | | N | |
| 897 Upgraded track 0 | 896 | | 186 | | | GERMANS | N N | | GERMANS | | | | | Y | Moderate |
| 899 Upgraded track 0 Y 484 N 125 N 164 VAVENYAVEN N 2099 YAVENYAVEN N Y High 900 Upgraded track 154 N 125 N 1 106 LOGRIDGE N 2101 YORKERS N Y Moder: 901 Upgraded track 178 N 122 COTWAY N 783 N 2102 N N N 106 VY 2123 WOOLGARLO N N N LOW 902 Upgraded track 78 N 327 N N 0 N 107 VY 2123 WOOLGARLO N N N High 903 New track 28 N 392 MERRILL Y 2307 N 2125 HUMES N N High 904 New track 0 Y 0 CART ROAD N 2178 BLACK RANGE N 2138 JUGIONG N N High 905 New track 38 N 700 MIDDLE N 1650 MERRILL N 2114 MERRILL N N High 906 Upgraded track 90 N 74 N 160 N 1650 MERRILL N 1141 MERRILL N N 1650 MERRILL N 16 | | | | | 551 | OLIMIN IIIO | Y | | | Y | | | | N N | High |
| 900 Upgraded track 154 N 125 N 106 LOGRIDGE N 2101 YORKES N Y Moders 901 Upgraded track 78 N 327 N 783 N 2102 N N N 106 N 109 | | | | N | | | | | | | | BAGO | | Y | Moderate |
| 901 Upgraded track 178 N 122 COTWAY N 783 N 12102 N N N 1099 902 Upgraded track 78 N 327 N 0 0 N 12102 N N N 14109 903 New track 28 N 392 MERILL Y 2307 N 2125 HUMES N N N High 904 New track 0 Y 0 CARTROAD N 2178 BLACK RANGE N 2138 JUGIONG N N N High 905 New track 38 N 700 MIDDLE N 1650 MERRILL N 2114 MERRILL N N N High 905 Upgraded track 90 N 74 N 629 SHARPS N 2142 SHARPS N N N MOder 907 Upgraded track 40 Y 519 N 885 JOHNSONS N 2146 TUMBARUMBA N N High 908 Upgraded track 66 N 356 N 595 SHARPS N 2146 TUMBARUMBA N N High 909 Existing tracks/road 0 Y 478 N 1000 N 1102 YAVEN YAVEN N 2171 BAGO N N MOdere 910 Upgraded track 0 Y 320 N 1 1102 YAVEN YAVEN N 2113 MURRUMBIDGE N N MODER 911 Upgraded track 20 N N 0 N 1494 PLAIN N 2115 SHARPS N N N MODER 911 Upgraded track 243 N 71 N 0 N 1494 PLAIN N 2197 SHARPS N 1 1102 YAVEN YAVEN N 2113 MURRUMBIDGE N N N MODER 911 Upgraded track 243 N 71 N 0 N 1494 PLAIN N 2197 SHARPS N 2200 ADELONG N N MODER 913 New track 243 N 71 N 1515 N 171 SHARPS N 2200 ADELONG N N MODER 914 Upgraded track 243 N 71 N 171 N 1712 SHARPS N 2200 ADELONG N N N MODER 914 Upgraded track 0 Y 1315 N 1315 N 1273 N 1273 N 1220 ADELONG N N N MODER 915 Upgraded track 0 Y 1315 N 1315 N 1220 N 1315 N | | | | Y N | | | | | | | | YAVEN YAVEN | | Y V | Moderate |
| 902 Upgraded track 78 N 327 N 0 Y 2123 WOOLGARLO N N High 903 New track 28 N 392 MERRILL Y 2307 N 2125 HUMES N N N High 904 New track 0 Y 0 CART ROAD N 2178 BLACK RANGE N 2138 JUGIONG N N N High 905 New track 38 N 700 MIDDLE N 1650 MERRILL N 2141 MERRILL N N 1 High 906 Upgraded track 90 N 74 MODLE N 629 SHARPS N 2142 SHARPS N N N MODER 907 Upgraded track 0 Y 519 N 885 JOHNSONS N 2146 TUMBARUMBA N N N High 908 Upgraded track 66 N 356 N N 595 SHARPS N 2156 SHARPS N Y 1 Low 909 Existing tracks/roads 0 Y 478 N 1102 YAVEN YAVEN N 2171 BAGO N N MODER 910 Upgraded track 0 O Y 320 N 1 1318 ROCKY N 2183 MURUMBIDGE N N High 911 Upgraded track 205 N 0 O Y 320 N 1 1318 ROCKY N 2183 MURUMBIDGE N N M MODER 912 Upgraded track 205 N 0 O N 494 PLAIN N 2197 LONG N N MODER 912 Upgraded track 243 N 71 N 1 1772 SHARPS N 2200 ADELONG N N MODER 914 Upgraded track 243 N 71 N 1 1772 SHARPS N 2200 ADELONG N N M MODER 914 Upgraded track 0 Y 1 1315 Y 1 1273 N 2200 ADELONG N N M MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N M MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N N MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N N MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N N MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N N MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N Y MIGNER 914 Upgraded track 0 Y 1 1315 N 1 1772 SHARPS N 2200 ADELONG N N Y MIGNER 915 Upgraded track 66 N 1 152 N 1 152 N 1 150 N 1 1772 SHARPS N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | COTWAY | | | LOODINIDOL | | | TORRERS | | N | Low |
| 904 New track 0 Y 0 CAT ROAD N 2178 BLACK RANGE N 2138 JUGIONG N N High 905 New track 38 N 700 MIDLE N 1650 MERRILL N 2141 MERRILL N N 1 High 906 Upgraded track 90 N 74 N 629 SHARPS N 2142 SHARPS N N M 60697 Upgraded track 0 N 74 N 885 JOHNSONS N 2146 TUMBARUMBA N N High 908 Upgraded track 66 N 356 N 595 SHARPS N 2146 SHARPS N Y Low 909 Existing tracks/roads 0 Y 478 N 1102 YAVEN N 2171 BAGO N N M 60ders 910 Upgraded track 0 N Y 320 N 1102 YAVEN N 2171 BAGO N N M 60ders 910 Upgraded track 205 N N 0 N 494 PLAIN N 2197 LONG N N M 60ders 911 Upgraded track 205 N N 0 N 171 N 1772 SHARPS N 2197 LONG N N M 60ders 912 Upgraded track 243 N N 71 N 1772 SHARPS N 2200 ABELONG N N M 60ders 913 New track 0 N Y 1315 Y 1273 N 2200 ABELONG N N N High 914 Upgraded track 243 N N 71 N 1772 SHARPS N 2200 ABELONG N N N High 915 Upgraded track 243 N N 71 N 1772 SHARPS N 2200 ABELONG N N N High 914 Upgraded track 243 N N 71 N 1772 SHARPS N 2200 ABELONG N N N High 915 Upgraded track 243 N N 155 N 1860 BAGO N 2200 ABELONG N N N High 915 Upgraded track 181 N 2 N 1875 N 2200 ABELONG N Y M 1860 N 1891 Upgraded track 181 N 2 N 1875 N 1880 N 1880 N 1880 N 1880 N 1880 N 1850 N 1850 N 1880 N 1850 N | 902 | Upgraded track | 78 | N | 327 | | | 0 | | Υ | 2123 | | N | N | |
| 905 New track 38 N 700 MIDDLE N 1650 MERRILL N 2141 MERRILL N N N High 906 Upgraded track 90 N 74 N 629 SHARPS N 2142 SHARPS N N N MOders 907 Upgraded track 0 V 519 N 885 JOHNSONS N 2146 TUMBARUMBA N N N High 908 Upgraded track 66 N 356 N 155 N 102 SHARPS N 2156 SHARPS N V 165 SHARPS N 165 SHARPS N N 165 SHARPS N 165 SHARPS N N 165 SHARPS N 165 SHARPS N N 165 SHAR | | | | | | | Y | | DI ACK DANCE | | | | | | |
| 906 Upgraded track 90 N 74 N 629 SHARPS N 2142 SHARPS N N MODER N N MODER N N 1519 N N 885 JOHNSONS N 2146 TUMBARUMBA N N N High 907 Upgraded track 66 N 356 N 356 N 555 SHARPS N 2156 SHARPS N N 1 100 SHARPS N N N N High 909 Existing tracks/roads 0 Y 478 N N 1102 YAVEN YAVEN N 2171 BAGO N N N MODER N N M 1100 YAVEN YAVEN N 2171 BAGO N N N MODER N N M 1100 SHARPS N 1 2183 MURRUMBIDGE N N N M 100 SHARPS N N 1 100 SHARPS N N N 1 100 SHARPS N 1 1 | | | | | | | | | | | | | | | High |
| 908 Upgraded track 66 N 356 N 595 SHARPS N 2156 SHARPS N Y Upgraded track 0 Y 478 N 1102 YAVEN YAVEN N 2171 BAGO N N N MODER SHARPS N 1102 YAVEN YAVEN N 2171 BAGO N N N MODER SHARPS N 1102 YAVEN YAVEN N 2171 BAGO N N N MODER SHARPS N 1102 YAVEN YAVEN N 2183 MURRUMBIDGEE N N N HIGH SHAPPS N 1102 Upgraded track 205 N 0 0 N N 494 PLAIN N 2197 LONG N N N MODER SHAPPS N 2197 LONG N N N MODER SHAPPS N 2200 ADELONG N Y MODER SHAPPS N 2200 ADELONG N N Y MODER SHAPPS N 2200 ADELONG N N Y MODER SHAPPS N 2200 ADELONG N N Y MODER SHAPPS N 2203 ROCKY N N N HIGH SHAPPS N N 2203 ROCKY N N N HIGH SHAPPS N N 2203 ROCKY N N N HIGH SHAPPS N N 2203 ROCKY N N N HIGH SHAPPS N N N N HIGH SHAPPS N N N SHAPPS N N SHAPPS N N SHAPPS N N SHAPPS N N N SHAPPS N N N SHAPPS N N SHA | 906 | Upgraded track | 90 | | 74 | | N | 629 | SHARPS | N | 2142 | SHARPS | N | | Moderate |
| 909 Existing tracks/roads 0 Y 478 N 1102 YAVEN YAVEN N 2171 BAGO N N N MODERS 910 Upgraded track 0 Y 320 Y 1318 ROCKY N 2183 MURRUBIDGE N N N High 11 Upgraded track 205 N 0 N 0 N 494 PLAIN N 2197 LONG N N N MODERS 912 Upgraded track 243 N 71 N 1712 SHARPS N 2200 ADELONG N N N MODERS 913 New track 0 Y 1315 Y 1273 N 200 ADELONG N N N High 914 Upgraded track 0 Y 0 Y 0 YORKERS N 0 10GBRIDGE Y 2240 YORKERS N N N High 915 Upgraded track 181 N 2 N 152 N 152 N 1580 BAGO N 2246 LITTLE GILMORE N Y MODERS 916 Upgraded track 181 N 2 N 152 N 152 N 152 N 152 N 152 N 154 N 155 N 152 N 154 N 155 N | | | | Y | | | | | | | | | | N | |
| 910 Upgraded track 0 0 Y 320 Y 1318 ROCKY N 2183 MURRIMBIDGEE N N N High 911 Upgraded track 205 N 0 N N 494 PLAIN N 2197 LONG N N N MOders 912 Upgraded track 243 N 71 N 1772 SHARPS N 2200 ADELONG N Y MODERS 913 New track 0 N Y 1315 Y 1273 N 2200 ROCKY N N N N High 914 Upgraded track 0 N Y 1315 N 1273 N 2203 ROCKY N N N N High 914 Upgraded track 0 N Y 0 YORKERS N 0 LOGBRIDGE Y 2240 YORKERS N N N High 915 Upgraded track 181 N 2 N 580 BAGO N 2246 LITTLE GILMORE N Y MODERS 916 Upgraded track 181 N 152 N 831 N 1247 TURNERS N N N 104 High 916 Upgraded track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y MODERS 918 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2253 FLACKNELL N N 1418 N 141 | | | | N | | | | | | | | | | Y | Low Moderate |
| 911 Upgraded track 205 N 0 N 494 PLAIN N 2197 LONG N N Moders 912 Upgraded track 243 N 71 N 1772 SHARPS N 2200 ADELONG N Y Moders 913 New track 0 Y 1315 Y 1273 N 2203 ROCKY N N N High 914 Upgraded track 0 Y 0 YORKERS N 0 LOGBRIDGE Y 2240 YORKERS N N High 915 Upgraded track 181 N 2 N 580 BAGO N 2246 LITTLE GILMORE N Y Moders 916 Upgraded track 66 N 152 N 831 N 2247 TURRES N N N Low 917 New track 88 N | | | | Y | | | Y | | | | | | | | High |
| 913 New track 0 Y 1315 Y 1273 N 2203 ROCKY N N N High 914 Upgraded track 0 Y 0 YORKERS N 0 LOGBRIDGE Y 2240 YORKERS N N High 915 Upgraded track 181 N 2 N 580 BAGO N 2246 LITTLE GILMORE N Y Modera 916 Upgraded track 66 N 152 N 831 N 2246 LITTLE GILMORE N Y Modera 917 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y Modera 918 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y Modera 918 New track 0 Y 265 N 341 BUNTON N 2253 FLACKNELL N N High 919 Upgraded track 136 N 278 N 1183 N 268 LITTLE GILMORE N Y Low | 911 | Upgraded track | | | 0 | | | 494 | PLAIN | N | 2197 | LONG | N | | Moderate |
| 914 Upgraded track 0 Y 0 YORKERS N 0 LOGBRIDGE Y 2240 YORKERS N N N High 915 Upgraded track 181 N 2 N 580 BAGO N 2246 LITTLE GILMORE N Y MOdera 916 Upgraded track 66 N 152 N 831 N 2247 TURNERS N N N Low 1917 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y MOdera 918 New track 0 Y 265 N 341 BUNTON N 2253 FLACKNELL N N N High 919 Upgraded track 136 N 278 N 1183 N 2268 LITTLE GILMORE N Y Low 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 LITTLE GILMORE N Y Low 1890 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 YAVEN YAVEN N N N Low | | | | N | | | N | | SHARPS | | | | | Y | Moderate |
| 915 Upgraded track 181 N 2 N 580 BAGO N 2246 LITTLE GILMORE N Y Moders 916 Upgraded track 66 N 152 N 831 N 2247 TURNERS N N LOW 917 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y Moders 918 New track 0 Y 265 N 341 BUNTON N 2253 FLACKNELL N N HIBM 919 Upgraded track 136 N 278 N 1183 N 2268 LITTLE GILMORE N Y LOW 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 LITTLE GILMORE N Y LOW 1000 N | | | | Y | | YORKERS | N N | | LOGBRIDGE | Y | | | | | High |
| 916 Upgraded track 66 N 152 N 831 N 2247 TURNERS N N LOW 917 New track 88 N 608 JOHNSONS N 755 JOHNSONS N 2251 GILMORE N Y Moders 918 New track 0 Y 265 N 341 BUNTON N 2253 FLACKNELL N N High 919 Upgraded track 136 N 278 N 1183 N 2268 LITTLE GILMORE N Y Low 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 VAYEN YAVEN N N N LOW | 915 | | 181 | N | 2 | TOTALETO | | 580 | | N N | 2246 | | | Y | Moderate |
| 918 New track 0 Y 265 N 341 BUNTON N 2253 FLACKNELL N N High 919 Upgraded track 136 N 278 N 1183 N 2268 LITTLE GILMORE N Y Low 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 LYAVEN YAVEN N N N LOW | 916 | Upgraded track | 66 | | | | | 831 | | N | 2247 | TURNERS | | N | Low |
| 919 Upgraded track 136 N 278 N 1183 N 2268 LITTLE GILMORE N Y Low 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 YAVEN YAVEN N N | | | | N | | JOHNSONS | | | | | | | | Y | |
| 920 Upgraded track 97 N 575 GERMANS N 368 GERMANS N 2268 YAVEN YAVEN N N Low | | | | N N | | | | | BUNTUN | | 2268 | | | Y | |
| 921 New track 0 V 386 N 574 YELLOW CLAY N 2271 OAK N V HIEN | 920 | Upgraded track | 97 | | 575 | GERMANS | N | 368 | | N | 2268 | YAVEN YAVEN | N | N | Low |
| | 921 | New track | 0 | Y | 386 | | N | 574 | YELLOW CLAY | N | 2271 | OAK | N | Y | High Moderate |
| | | | | IN V | | | | | TAVEN YAVEN | - '' | | | | Y N | High |
| 924 Upgraded track 196 N 351 LOGBRIDGE N 204 LOGBRIDGE N 2300 YORKES N Y Low | | | | N | | LOGBRIDGE | | | LOGBRIDGE | | | | | Y | |

| Access Track ID | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------------|-------------------------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|------------------|--|
| 925 | Upgraded track | 218 | N | 247 | LOGBRIDGE | N | 67 | LOGBRIDGE | N | 2312 | YORKERS | N | Υ | Moderate |
| 926 | Upgraded track | 55 | N | 110 | 2000111002 | N | 206 | YAVEN YAVEN | N | 2322 | YAVEN YAVEN | N | Ý | Low |
| 927 | Upgraded track | 200 | N | 157 | | N | 25 | LOGBRIDGE | N | 2329 | YORKERS | N | Υ | Moderate |
| 928 929 | Upgraded track | 111 132 | N N | 130 | | Y N | 1478 796 | IOHNICONIC | N N | 2346 2355 | ROCKY TUMBARUMBA | N N | N Y | High Moderate |
| 930 | Upgraded track Upgraded track | 0 | N V | 0 494 | | N N | 1084 | JOHNSONS JOHNSONS | N N | 2355 | TUMBARUMBA | N N | N N | High |
| 931 | New track | 0 | Y | 413 | MERRILL | N | 1119 | MERRILL | N | 2369 | HUMES | N | N | High |
| 932 | Upgraded track | 137 | N | 114 | | N | 1234 | | N | 2372 | LITTLE GILMORE | N | Υ | Low |
| 933 | New track | 0 | Y | 496 | | Y | 1173 | BURNT HUT | N | 2374 | WOOLGARLO | N | N | High |
| 934 935 | Upgraded track New track | 235 59 | N N | 0 477 | BIG ROCK | N N | 544 604 | YAVEN YAVEN MEADOW | N N | 2387 2411 | BAGO | N N | N N | Moderate Moderate |
| 936 | Upgraded track | 176 | N | 411 | JOHNSONS | N | 770 | JOHNSONS | N N | 2412 | TUMBARUMBA | N | N N | Low |
| 937 | Upgraded track | 96 | N | 393 | 30111130113 | N | 1837 | 30111100110 | N | 2417 | HUMES | N | N | Low |
| 938 | New track | 0 | Υ | 859 | | N | 113 | THREE | N | 2427 | MANTONS | N | N | High |
| 939 940 | Upgraded track Upgraded track | 90 | N Y | 73 41 | LOGBRIDGE | N N | 69 345 | LOGBRIDGE BUNTON | N N | 2435 2441 | YORKERS FLACKNELL | N N | Y N | Moderate High |
| 940 | New track | 0 | Y | 191 | MIDDLE | N N | 1288 | MERRILL | N N | 2441 | MERRILL | N N | V | High |
| 942 | Upgraded track | 158 | N N | 80 | IVIIDDEL | N | 1281 | WILITABLE | N | 2464 | LITTLE GILMORE | N | Ÿ | Moderate |
| 943 | New track | 226 | N | 420 | SAWPIT | Y | 1364 | KIALLA | N | 2493 | RYANS | N | N | High |
| 944 | Upgraded track | 62 | N | 0 | | N | 1912 | | N | 2519 | HUMES | N | N | Moderate |
| 945 946 | Upgraded track New track | 0 394 | N N | 900 117 | SAWPIT | N N | 233 1073 | LOGBRIDGE KIALLA | N N | 2537 2551 | YORKERS RYANS | N N | Y N | High Moderate |
| 947 | Upgraded track | 289 | N N | 129 | SAWPII | N N | 497 | YAVEN YAVEN | N N | 2559 | BAGO | N N | V | Low |
| 948 | New track | 73 | N | 452 | SAWPIT | N | 1541 | RYANS | N | 2621 | RYANS | N | N | Moderate |
| 949 | New track | 9 | N | 292 | | N | 979 | GOCUP | N | 2624 | GILMORE | N | N | High |
| 950 | New track | 352 | N | 816 | | N | 1125 | SHARPS | N | 2625 | ADELONG | N | Y | Moderate |
| 951 952 | New track New track | 88 84 | N N | 981 | SAWPIT | N N | 1641 504 | KIALLA | N N | 2628 2659 | ROCKY RYANS | N N | Y N | Moderate High |
| 953 | New track | 0 | Y | 452 | SAWPII | N N | 217 | KIALLA | N N | 2677 | MIDDLE | N N | N N | High |
| 954 | Upgraded track | 228 | N N | 262 | | N | 1023 | SHARPS | N | 2684 | SHARPS | N | Ϋ́ | Low |
| 955 | Upgraded track | 220 | N | 890 | SAWPIT | N | 908 | KIALLA | N | 2696 | RYANS | N | N | Low |
| 956 | New track | 72 | N | 597 | BLACK RANGE | N | 1992 | BLACK RANGE | N | 2717 | JUGIONG | N | Y | Moderate |
| 957 | Upgraded track | 0 | Y | 486 | SAWPIT | N N | 500 1639 | LOGBRIDGE RYANS | N N | 2727 2728 | YORKERS RYANS | N N | Y N | High High |
| 958 959 | Upgraded track Upgraded track | 0 | Y | 253 712 | SAVVEII | N | 597 | MEADOW | N N | 2765 | NIANS | N N | Y | High |
| 960 | New track | 0 | Ϋ́ | 360 | | N | 822 | MEADOW | N | 2783 | GILMORE | N | N N | High |
| 961 | Upgraded track | 165 | N | 515 | | N | 142 | PLAIN | N | 2805 | LONG | N | N | Moderate |
| 962 | Upgraded track | 0 | Y | 159 | | N N | 254 | PLAIN | N | 2806 | YORKERS | N | N . | High |
| 963 964 | Upgraded track Upgraded track | 0 209 | N Y | 293 89 | | N N | 0 180 | YELLOW CLAY PLAIN | N N | 2811 2813 | OAK LONG | N N | N N | High Moderate |
| 965 | New track | 63 | N | 189 | | N | 350 | BUNTON | N | 2852 | FLACKNELL | N | Y | Moderate |
| 966 | New track | 18 | N | 166 | | N | 569 | THREE | N | 2856 | MANTONS | N | Ϋ́ | High |
| 967 | New track | 170 | N | 34 | HEFFERNANS | N | 2017 | HUMES | N | 2866 | HUMES | N | N | High |
| 968 969 | New track New track | 146 137 | N N | 948 1011 | SAWPIT | N N | 1843 1100 | RYANS YELLOW CLAY | N N | 2901 2908 | RYANS OAK | N N | N V | Moderate Moderate |
| 970 | New track | 26 | N N | 447 | | N N | 226 | KIALLA | N N | 2928 | RYANS | N N | N N | High |
| 971 | Upgraded track | 44 | N | 792 | | N | 702 | LOGBRIDGE | N | 2932 | YORKERS | N | Ϋ́ | Moderate |
| 972 | Upgraded track | 270 | N | 439 | HEFFERNANS | N | 2062 | HUMES | N | 2947 | HUMES | N | N | Low |
| 973 | Upgraded track | 8 | N | 861 | SAWPIT | N | 1875 | RYANS | N | 2953 | RYANS | N | N | Moderate Moderate |
| 974 975 | New track New track | 73 0 | N | 777 1207 | SAWPIT | N N | 1934 955 | RYANS BOGOLONG | N N | 2963 2965 | RYANS WOOLGARLO | N N | N N | High |
| 976 | New track | 0 | Y | 29 | | N | 1983 | BOGOLONG | N | 2981 | ROCKY | N N | N N | High |
| 977 | New track | 46 | N | 212 | | N | 430 | BUNTON | N | 2983 | FLACKNELL | N | N | High |
| 978 | New track | 0 | Υ | 63 | | Y | 941 | MERRILL | N | 3001 | MERRILL | N | N | High |
| 979 | Upgraded track | 216 | N | 0 | | N | 491 | PLAIN | N N | 3058 | LONG | N | N | Moderate |
| 980 981 | Upgraded track Upgraded track | 0 | Y | 502 445 | | N V | 755 143 | MEADOW CATHERINES | N N | 3069 3092 | GILMORE BOUGH YARD | N N | N N | High High |
| 982 | New track | 53 | N | 0 | | N | 169 | KIALLA | N | 3113 | KIALLA | N | N | High |
| 983 | Upgraded track | 9 | N | 653 | | N | 989 | LOGBRIDGE | N | 3133 | YORKERS | N | N | Moderate |
| 984 | Upgraded track | 0 | Y | 592 | | N | 0 | CATHERINES | Y | 3152 | BOUGH YARD | N | N | High |
| 985 986 | Upgraded track | 18 101 | N N | 22 233 | THREE BLACK RANGE | N N | 796 1922 | THREE BLACK RANGE | N N | 3165 3174 | MANTONS JUGIONG | N N | N | Moderate Moderate |
| 986 | New track New track | 18 | N N | 233 | GURRUNDAH | N N | 2243 | RYANS | N N | 31/4 | RYANS | N N | Y Y | High |
| 988 | Upgraded track | 186 | N | 1022 | BLACK RANGE | N | 1964 | BLACK RANGE | N | 3227 | CARROLLS | N | Y | Low |
| 989 | New track | 0 | Υ | 184 | BLACK RANGE | Υ | 1465 | BOGOLONG | N | 3261 | CARROLLS | N | Υ | High |
| 990 | New track | 0 | Y | 0 | | N | 1048 | BOGOLONG | N | 3291 | CARROLLS | N | N | High |
| 991 | Upgraded track | 28 | N Y | 510 | | N N | 964 | BOGOLONG | N | 3299 | CARROLLS | N N | N N | Moderate High |
| 992 993 | New track Upgraded track | 0 | Y | 514 180 | | N N | 1059 592 | THREE PLAIN | N N | 3315 3342 | MANTONS LONG | N N | N N | High |
| 994 | Upgraded track | 0 | Y | 828 | | N | 619 | CATHERINES | N | 3344 | FLACKNELL | N | N N | High |
| 995 | New track | 0 | Y | 114 | BLACK RANGE | N | 1166 | BOGOLONG | N | 3354 | CARROLLS | N | Υ | High |
| 996 | Upgraded track | 101 | N | 527 | | N | 915 | PLAIN | N | 3356 | YORKERS | N | N | Low |
| 997 | New track | 172 | N N | 825 | HEFFERNANS | N N | 2078 | HUMES | N N | 3366 | HUMES | N N | N N | Moderate Moderate |
| 998 999 | New track New track | 261 32 | N N | 732 636 | GURRUNDAH MERRILL | N N | 2514 705 | MERRILL | N N | 3384 3394 | RYANS HUMES | N N | N V | High |
| 1000 | New track | 0 | Y | 153 | IFICIANIC | N | 1471 | YELLOW CLAY | N | 3455 | ROCKY | N | N N | High |
| 1001 | New track | 127 | N | 439 | | N | 903 | BOGOLONG | N | 3482 | WOOLGARLO | N | N | Moderate |

Table F-1 Access Track Analysis

| Access Track | Track Category | Closest Distance to Strahler1 (m) | Strahler1 Intersected? | Closest Distance to Strahler2 (m) | Strahler2 HYDRONAME | Strahler2 Intersected? | Closest Distance to Strahler3 (m) | Strahler3 HYDRONAME | Strahler3 Intersected? | Closest Distance to Strahler4 (m) | Strahler4 HYDRONAME | Strahler4 Intersected? | Inside Corridor? | Potential Impact Significance without mitigation |
|--------------|----------------|--------------------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|--------------------------------------|------------------------|---------------------------|------------------|--|
| 1002 | New track | 0 | Υ | 523 | | N | 634 | BOGOLONG | N | 3500 | CARROLLS | N | Υ | High |
| 1003 | Upgraded track | 0 | Υ | 255 | | N | 3 | CATHERINES | N | 3505 | BOUGH YARD | N | N | High |
| 1004 | New track | 0 | Υ | 187 | | Υ | 337 | BOGOLONG | N | 3511 | CARROLLS | N | N | High |
| 1005 | Upgraded track | 79 | N | 0 | GURRUNDAH | N | 2526 | | N | 3513 | RYANS | N | N | Moderate |
| 1006 | New track | 33 | N | 439 | MERRILL | N | 307 | MERRILL | N | 3538 | MERRILL | N | N | High |
| 1007 | New track | 9 | N | 137 | | N | 1324 | YELLOW CLAY | N | 3561 | OAK | N | N | High |
| 1008 | Upgraded track | 317 | N | 353 | PLAIN | N | 744 | PLAIN | N | 3582 | YORKERS | N | N | Low |
| 1009 | New track | 210 | N | 1071 | BOGOLONG | N | 546 | BOGOLONG | N | 3590 | WOOLGARLO | N | N | Moderate |
| 1010 | New track | 258 | N | 261 | MERRILL | Υ | 322 | MERRILL | N | 3591 | HUMES | N | N | High |
| 1011 | New track | 143 | N | 0 | | N | 1324 | YELLOW CLAY | N | 3606 | OAK | N | N | High |
| 1012 | New track | 70 | N | 521 | | N | 1799 | YELLOW CLAY | N | 3618 | ROCKY | N | N | Moderate |
| 1013 | Upgraded track | 454 | N | 481 | GURRUNDAH | N | 2642 | | N | 3624 | RYANS | N | N | Low |
| 1014 | Upgraded track | 0 | Υ | 161 | | N | 670 | CATHERINES | N | 3680 | BOUGH YARD | N | N | High |
| 1015 | New track | 0 | Υ | 463 | HEFFERNANS | N | 2183 | HUMES | N | 3711 | HUMES | N | N | High |
| 1016 | New track | 375 | N | 693 | | Υ | 283 | BOGOLONG | N | 3728 | CARROLLS | N | Υ | High |
| 1017 | New track | 130 | N | 0 | | N | 680 | CATHERINES | N | 3785 | BOUGH YARD | N | N | High |
| 1018 | Upgraded track | 24 | N | 459 | GURRUNDAH | Υ | 2799 | | N | 3819 | RYANS | N | N | High |
| 1019 | New track | 0 | Υ | 0 | | N | 58 | CATHERINES | N | 3856 | BOUGH YARD | N | Υ | High |
| 1020 | Upgraded track | 22 | N | 535 | | N | 294 | CATHERINES | N | 3858 | BOUGH YARD | N | Υ | Moderate |
| 1021 | New track | 69 | N | 616 | | N | 999 | CATHERINES | N | 3876 | MANTONS | N | N | Moderate |
| 1022 | New track | 260 | N | 663 | BOGOLONG | Υ | 279 | BOGOLONG | N | 3889 | | N | Υ | High |
| 1023 | New track | 0 | Υ | 0 | GURRUNDAH | N | 3157 | | N | 4201 | RYANS | N | N | High |
| 1024 | Upgraded track | 270 | N | 174 | GURRUNDAH | N | 3054 | HUMES | N | 4438 | RYANS | N | N | Low |
| 1025 | New track | 438 | N | 520 | HEFFERNANS | N | 2461 | HUMES | N | 4461 | HUMES | N | N | Moderate |
| 1026 | New track | 290 | N | 1039 | GURRUNDAH | N | 3396 | HUMES | N | 4490 | RYANS | N | N | Moderate |
| 1027 | New track | 813 | N | 512 | GURRUNDAH | N | 2718 | HUMES | N | 4917 | HUMES | N | Υ | Moderate |
| 1028 | New track | 741 | N | 1196 | GURRUNDAH | N | 2995 | HUMES | N | 4932 | RYANS | N | Υ | Moderate |

| Access Track ID | Track Category | Waterway name | Catchment | Strahler order at crossing |
|-----------------|----------------|---------------|-------------------|----------------------------|
| 1 | Upgraded track | SNUBBA | Murrumbidgee | 4 |
| 2 | Upgraded track | GOCUP | Murrumbidgee | 4 |
| 3 | Upgraded track | TYWONG | Murrumbidgee | 4 |
| 6 | Upgraded track | BAGO | Murrumbidgee | 4 |
| 7 | Upgraded track | SNUBBA | Murrumbidgee | 4 |
| 8 | Upgraded track | NACKI NACKI | Murrumbidgee | 4 |
| 9 | Upgraded track | RIGHT ARM | Murrumbidgee | 4 |
| 10 | Upgraded track | NACKI NACKI | Murrumbidgee | 4 |
| 11 | Upgraded track | KEAJURA | Murrumbidgee | 6 |
| 12 | Upgraded track | LONG | Murrumbidgee | 4 |
| 13 | Upgraded track | BUDDONG | Murrumbidgee | 5 |
| 14 | Upgraded track | HONEYSUCKLE | Murrumbidgee | 4 |
| 15 | Upgraded track | GILMORE | Murrumbidgee | 5 |
| 17 | Upgraded track | GILMORE | Murrumbidgee | 5 |
| 19 | Upgraded track | KILLIMICAT | Murrumbidgee | 5 |
| 20 | Upgraded track | | Murrumbidgee | 4 |
| 21 | Upgraded track | | Murrumbidgee | 4 |
| 22 | Upgraded track | O'BRIENS | Murrumbidgee | 4 |
| 23 | Upgraded track | DERRINGULLEN | Murrumbidgee | 5 |
| 24 | Upgraded track | JERRAWA | Lachlan | 5 |
| 25 | Upgraded track | O'BRIENS | Murrumbidgee | 6 |
| 28 | Upgraded track | MERRILL | Lachlan | 4 |
| 30 | Upgraded track | ADELONG | Murrumbidgee | 4 |
| 53 | New track | | Murrumbidgee | 4 |
| 56 | New track | LONG | Murrumbidgee | 4 |
| 57 | New track | BANNABY | Hawkesbury-Nepean | 4 |
| 58 | New track | WINDOWIE | Murrumbidgee | 4 |
| 60 | New track | GOCUP | Murrumbidgee | 4 |
| 62 | New track | SAWPIT | Murrumbidgee | 4 |
| 63 | New track | BRUNGLE | Murrumbidgee | 5 |
| 67 | New track | JUGIONG | Murrumbidgee | 4 |
| 69 | New track | BANGO | Murrumbidgee | 4 |
| 73 | New track | HUMES | Lachlan | 4 |
| 74 | New track | MIDDLE | Hawkesbury-Nepean | 5 |
| 75 | New track | PEJAR | Hawkesbury-Nepean | 4 |
| 76 | New track | MELAMALONG | Hawkesbury-Nepean | 4 |
| 79 | New track | | Hawkesbury-Nepean | 4 |
| 80 | New track | KERRAWARY | Hawkesbury-Nepean | 4 |
| 82 | New track | | Hawkesbury-Nepean | 4 |
| 83 | New track | | Hawkesbury-Nepean | 4 |
| 86 | New track | COCKATOO | Murrumbidgee | 4 |
| 87 | New track | O'BRIENS | Murrumbidgee | 6 |
| 89 | New track | MERRILL | Lachlan | 4 |
| 90 | New track | DERRINGULLEN | Murrumbidgee | 5 |
| 92 | New track | TOOLES | Murrumbidgee | 5 |
| 31 | Upgraded track | LONG | Murrumbidgee | 4 |
| 32 | Upgraded track | LONG | Murrumbidgee | 4 |
| 33 | Upgraded track | GALVINS | Murrumbidgee | 4 |
| 34 | Upgraded track | MANDYS | Murrumbidgee | 4 |
| 35 | Upgraded track | GILMORE | Murrumbidgee | 4 |
| 37 | Upgraded track | SAWPIT | Murrumbidgee | 4 |
| 39 | Upgraded track | CART ROAD | Murrumbidgee | 4 |
| 40 | Upgraded track | ROCKY | Murrumbidgee | 4 |
| 41 | Upgraded track | MERRILL | Lachlan | 4 |
| 44 | Upgraded track | FOLEYS | Murrumbidgee | 4 |
| 45 | Upgraded track | TOOLES | Murrumbidgee | 6 |
| 46 | Upgraded track | COLLEGE | Murrumbidgee | 5 |
| 47 | Upgraded track | TARCUTTA | Murrumbidgee | 6 |
| 88 | Upgraded track | SAW MILL | Murrumbidgee | 4 |
| 48 | Upgraded track | | Murrumbidgee | 4 |
| 49 | Upgraded track | DARLOWS | Murrumbidgee | 4 |
| 49 | Upgraded track | DARLOWS | Murrumbidgee | 4 |

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