

## Minor Works Environmental Impact Assessment (EIA) /Minor Works Review of Environmental Factors(REF) Form

This EIA form is used by WaterNSW to assess and approve minor works that are either *Development Without Consent* or *Exempt Development*. It records & assesses activities or project works where environmental impacts are minimal or not likely to significantly affect the environment. If you are unsure how to answer anything in this Form, please contact the Environmental Services Team for assistance and advice.

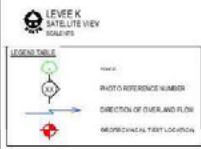
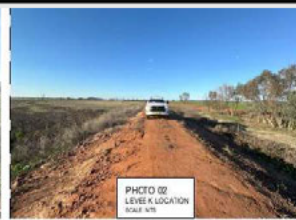
**The EIA form is for use with Adobe Reader. Enable JavaScript when prompted by Adobe Reader.**

### SECTION 1 PROJECT SCOPE

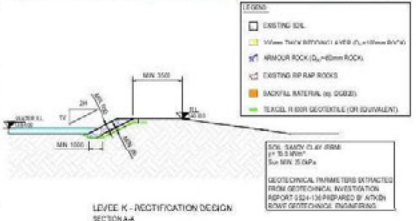
	QUESTIONS	ANSWERS	GUIDANCE
1.1	Organisation/Business Unit/Team	Water NSW/Project Delivery - Rural Flood Recovery Program	
1.2	WaterNSW representative and contact details	[REDACTED]	
1.3	Has a site inspection been undertaken? If so by whom and when?	An inspection was undertaken on the 30 July 2024 by [REDACTED] - WaterNSW	<i>It is recommended the person undertaking site inspection should also complete this Form.</i>
1.4	ARK Reference - Project Folder/Work Folder	F2025/831 - D2026/8890	<i>Save your work to ARK and include the ARK numbers here. Provide project/works folder for background information.</i>
1.5	Project Number/Budget Code	[REDACTED]	<i>Environmental Services time taken to process this request will be assigned to the project.</i>
1.6	Project or Works Value	\$650K  Publication of the EIA is required as an AHIP application is required under Section 90a of the National Parks and Wildlife Act 1974, for impact in its entirety, by way of community collection and relocation (burial) of registered Aboriginal objects on Levee K and Levee L within the Subject Area for the following AHIMS sites: 1. LB Levee K (AHIMS ID# 42-5-0078) 2. LB Levee L (AHIMS ID# 42-4-0025)	<i>Publication of EIA/REF is required when:</i> - Capital investment is > \$5 million  <i>- an approval or permit is required under:</i> - FM Act section 144, 201, 205 or 219 - Heritage Act section 57 - NP&W Act section 90 - POEO Act section 47-49 or 122  <i>or if it is considered to be in the public interest.</i>
1.7	Project or Works Title	Lake Brewster Remediation of Flood Damaged Levees K&L	<i>Include the full name of the project or work you propose undertaking.</i>
1.8	<b>Scope of Works:</b> What is to be undertaken and how?	The contractor is to undertake full remediation of flood-damaged embankments of the Subject Area.  The works are subject to variation based on final project requirements and will follow an extensive remediation sequence as below:  • Site Preparation – Service locating, weed management, clearing, grubbing and removal of loose soil/topsoil and unsuitable material off-site.  • Material Handling – Segregate and stockpile rocks for reuse; remove eroded material and stockpiling of reusable material and any imported material  • Backfilling – Place engineering fill in ≤200mm layers compacted to 98% standard compaction per WaterNSW GS-002.  • Geotextile Installation – Install Texcel 600R (or approved equivalent), anchored securely without damage.  • Bedding and Armour Layers – Place 200mm bedding rock (D50=100mm), then 500mm armour rock (D50=450mm), forming a 700mm thick riprap structure.  • Riprap Embankment Construction – Build progressively riverside to earth side, with a minimum slope of 1V:2H, following GS-002 and GS-003.  • Quality and Access Requirements – Maintain 3.5m width of access road; if soft spots are identified by site engineer during construction, material is to be removed, the subgrade scarified and imported material is to be installed in accordance with design specification.  • A designated borrow pit (4) for the use of material is to be imported to Levee K and Levee L for additional stabilisation. Borrow pit establishment – includes stripping of top soil and excavation of suitable material for works. The borrow pit (4) has been subject to previous heritage assessment and approved for use.  • Clean and reinstate any/all modified ground surfaces.	<i>Clearly outline the full scope of work and activities, including equipment type, size, quantity; sequence and tasks involved including site establishment, stockpiles; temporary structures such as site sheds; any block banks and de-watering.</i>
1.9	Proposed Start Date and Expected Duration of works	May 2026. Anticipate 3 months construction period	

1.10	Planned Site Work Hours	Standard construction hours being: Mon-Fri: 7am to 6pm Sat: 8am to 1pm Sun & Pub. Hols.: No works	Identify the planned site work hours. Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays. Non-standard hours may require additional noise assessments to be prepared.
1.11	One-off Project or Routine work	<input checked="" type="radio"/> One Off <input type="radio"/> Routine	
1.11.2	Options considered & justification for selecting the preferred option.	The objective of the proposed maintenance work is to repair damage to the existing embankments returning it to its pre-flood condition. The two options considered: - claim through insurance for the repair of the Levees to pre-flood condition and restore operational capability of the Lake. - do nothing, forgo any insurance covered costs of repair and leave the levees in their damaged state. The preferred option is to repair the damaged levees and restore the operational capability of the storage lake.	Describe all options that were considered and why the preferred option was selected.
1.12	Location	Southern embankment of Lake Brewster – Levees K & L.	Identify the location of the project or work and the asset. Be sure to include the access roads / routes used to deliver materials to site
1.13	Site Plan / Photos / Aerial Photo: Add Figures or ARK reference to figures		
		<input type="button" value="Add Site Plans, Figures or Photo etc."/>	<input type="button" value="Remove Figure or Photo"/>





- CONSTRUCTION SEQUENCE:**
1. SERVICES LEAKS TO BE REMOVED
  2. SERVICE LOCATIONS REQUIRED
  3. WASTE MANAGEMENT AND DISPOSAL
  4. REMOVE EXISTING SOIL
  5. STRIP TOPSOIL
  6. REMOVE EXISTING AND EXPOSED ROCKS FOR REUSE
  7. REMOVE EXPOSED MATERIAL AND EXPOSED AREAS USING ENGINEERING MATERIAL (E.G. DOGS) WITH A DENSITY OF 200 KMP<sup>3</sup> A FRICTION ANGLE OF 30° AND NO COHESION
  8. BACKFILL LEVEE TO BE IN PLACE IN DRAINAGE LAYER IN AREAS BOUND TO MIN. STANDARD COMPACTION PROPORTIONS AS PER DESIGN SPECIFICATION 05.02 - EARTHWORK GENERAL SPECIFICATION
  9. INSTALL NEW TIE-BARS, RAISE GEOTEXTILE OR APPROVED EQUIVALENT, THE GEOTEXTILE TO BE ANCHORED AND THE EMBANKMENT SOIL ACCORDING TO THE DESIGN CONTRACTOR TO ENSURE THAT THE GEOTEXTILE DOES NOT RIP OFF THE RAP DURING THE POST ALLOCATION
  10. THE SECOND LAYER SHALL BE CAREFULLY INSTALLED USING SMALL SIZE ROCKS (D<sub>max</sub> 100mm) ROCKS SELECTED ON SITE BY THE CONTRACTOR
  11. DAMAGED GEOTEXTILE IS NOT ALLOWED, IF DAMAGE OCCURS IT MUST BE REPLACED LOCALLY
  12. INSTALL AROUND ROCKS GUTTERS/WRAP BY RAP THICKNESS OF 50mm
  13. FINISHED RAP EMBANKMENT TO BE MINIMUM 1.5m
  14. CONSTRUCT THEM IN FIVE THICK DOWN SECOND ROCK - 500mm THICK AROUND ROCKS/RAP PROGRESSIVELY FROM THE INSIDE TO THE EXTERIOR SIDE
  15. ENSURE PROPER LAPPING OF RAP MATERIAL AT ALL LEVELS ALSO COMPLY WITH SUB-DRAIN SPECIFICATION 05.02 - EARTHWORK GENERAL SPECIFICATION AND WATERBURN SPECIFICATION 05.03 - REPAIR/PANES FOR MAIN TIE-BARS SPECIFICATION
  16. ACCESS ROAD TO MAINTAIN MINIMUM WIDTH OF 3.5m
  17. IF THE SITE ENGINEER OBSERVES DEFECTS DURING THE CONSTRUCTION PHASE, THE MATERIAL IS TO BE REMOVED, THE SUBSTRATE TO BE EXPOSED, AND IMPROVED MATERIAL TO BE INSTALLED IN ACCORDANCE WITH DESIGN SPECIFICATIONS

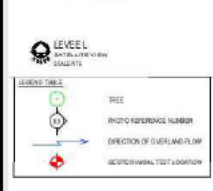


**LEGEND:**

- EXISTING SOIL
- 150mm THICK AROUND ROCK (D<sub>max</sub> 100mm) BENEATH
- AROUND RAP RAP ROCKS
- EXISTING RAP RAP ROCKS
- SANDFILL MATERIAL (AS ORDER)
- 150MM RIBBON GEOTEXTILE (OR EQUIVALENT)

SOIL: SANDY CLAY SILT (S<sub>u</sub> 15.0 KPa) S<sub>u</sub> MIN 15.0 KPa

GEOTECHNICAL PARAMETERS EXTRACTED FROM GEOTECHNICAL INVESTIGATION REPORT 1224-13 PREPARED BY ATCON CIVIL ENGINEERING ENGINEERING

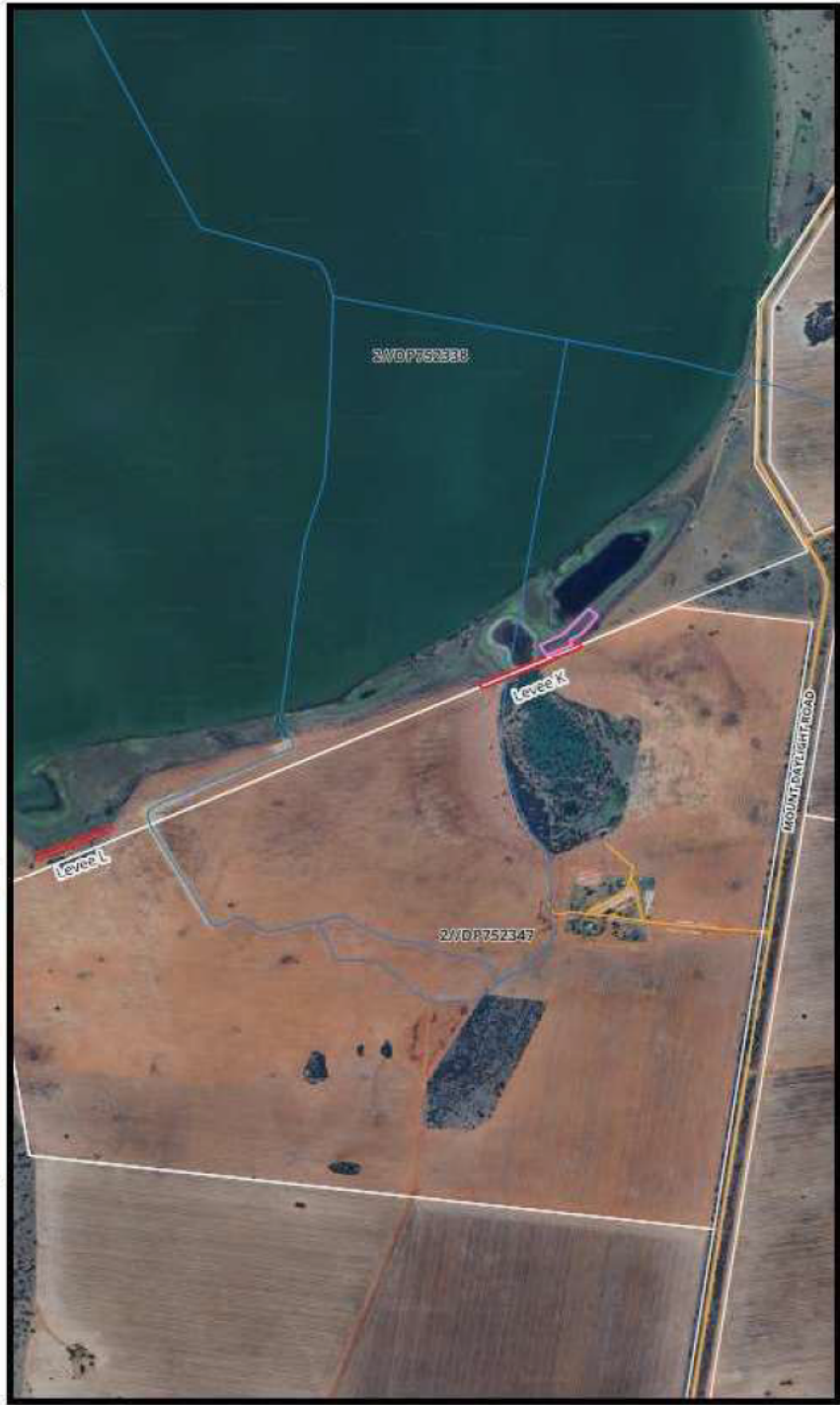


- LEVEL 1 RECTIFICATION DESIGN SECTION A-A SCALE 1:10**
- SERVICE LOCATION REQUIRED.
  - SERVICE LOCATION REQUIRED.
  - TRIP MANAGEMENT AND DISPOSAL.
  - CLARING AND GRUBBING.
  - PROTECTIVE SOIL.
  - STRIP TO FIRM.
  - SPREAD AND STONE/RIP ROCK TO RESOLVE.
  - RESOLVE DAMAGED TYPICAL AND BACKFILL AREAS USING ENGINEERING MATERIAL (E.G. DOBS) WITH DENSITY 1.025 TO 1.030 AND A PROTON BULK (50 OR 60) AND NO COARSE.
  - BACKFILL LAYERS TO BE LACED IN ZONE IN LAYERS MAXIMUM AND COMPACTED TO BE SUFFICIENT COMPACTED AND UNIFORM WITH PROPORTIONATE TO DESIGN.
  - INSTALL NEW TYPICAL RIP RAP GEOTEXTILE (OR EQUIVALENT) AND THE GEOTEXTILE TO BE ANCHORED INTO THE SUBGRADE AS ACCORDING TO THE DESIGN CONTRACTOR TO INSURE THAT THE GEOTEXTILE DOES NOT SLIP OR SLIP DURING THE NEXT FLOOD.
  - THE GEOTEXTILE SHALL BE CORRECTLY INSTALLED USING SMALL 1.5M X 1.5M ROCK (OR EQUIVALENT) SELECTED SIZES BY THE CONTRACTOR.
  - DAMAGED GEOTEXTILE (NOT ALL DAMAGED) IF DAMAGED LOCATIONS IT MUST BE REPLACED LOCALLY.
  - INSTALL RIP RAP ROCK (OR EQUIVALENT) IN BRIDGE BY RIP THICKNESS OF DESIGN.
  - FINISHED RIP RAP BRIDGE TO BE MINIMUM 1.2M.
  - CONSTRUCT THICK RIP RAP THICKNESS (DESIGN) 1.5M THICK RIP RAP ROCK (OR EQUIVALENT) PROGRESSIVELY FROM THE INSIDE TO THE LAND SIDE.
  - ENSURE PROPER PLACEMENT OF RIP RAP MATERIAL AT ALL LEVELS ACCORDANCE WITH WATERPROOF SPECIFICATION (AS 455 - DRAINAGE GEOTEXTILE SPECIFICATION AND WATERPROOF SPECIFICATION (AS 455) - BRIDGE AND ROADWAY DESIGN SPECIFICATION).
  - ACCESS ROAD TO MAINTAIN MINIMUM WIDTH OF 1.5M.
  - IF THE SITE ENGINEER IDENTIFIES SOFT SPOTS DURING THE CONSTRUCTION, THE MATERIAL IS TO BE REMOVED THE SUBGRADE TO BE SCARIFIED, AND IMPORTED MATERIAL TO BE NOT A LEAN ACCORDANCE WITH DESIGN SPECIFICATIONS.



**Legend**

-  Subject Area
-  Borrow Pit 4
-  Cadastre
-  Waterway
-  Roads



**Figure 2: Location of Subject Area**

Project Number: 218 Lake Brewster ACHA

0 250 500 750 1,000 m



Coordinate System: GDA 2020 MGA Zone 55



1.14 Is the land and/or asset owned by WaterNSW?

Yes  No

Site ownership details can be found at;  
 Vested orders (DOC11/8076) for assets  
 Government Property Register or Land Titles Office  
**NULA**

1.14.1	Provide evidence of ownership and detail what the land is used for	Proposal is located entirely within WaterNSW land as confirmed in NULA.	Provide details of land use e.g. operational area, Special Area, Controlled Area, recreational area, agricultural area etc <a href="http://www.watensw.com.au/supply/Greater-Sydney/system">http://www.watensw.com.au/supply/Greater-Sydney/system</a> <b>NULA</b>
1.15	Lot and DP	Lot 2/-/DP752338	Find a property using <b>NULA</b> or the <b>NSW Planning Portal</b>
1.16	What is the local government area (LGA)?	Carrathool Shire Council	You can find the LGA by using <b>NULA Maps</b> or the <b>NSW Planning Portal</b>
1.17	What is the zoning of the site?	RU1 - Primary Production (Carrathool Local Environmental Plan 2012)	Provide details of the zoning from the relevant Local Environmental Plan(s)
1.18	Will the project or work be within the Sydney Drinking Water Catchment and/or a Special Area / Controlled Area?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Check <b>NULA</b> to identify if the project or work is within the Sydney Drinking Water Catchment. For more information on undertaking a Neutral or Beneficial Effect Assessment refer to CD2016/89*
1.19	Does the project or work require any vegetation to be cleared?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Clearing means any one or more of the following: (a) cutting down, felling, thinning, logging or removing vegetation, (b) killing, destroying, poisoning, ringbarking, uprooting or burning native vegetation.
1.20	Is the project or work located on, in or adjacent to (within 40m) of "water land" or waterway?	<input checked="" type="radio"/> Yes <input type="radio"/> No	'water land' means land submerged by water: (a) whether permanently or intermittently, or (b) whether forming an artificial or natural body of water, and includes wetlands and any other land prescribed by the regulations as water land to which this Division applies.
1.20.1	Provide details	Working on the bank of Lake Brewster - Levees K and L.	Details to be included; name of waterway / waterbody, the proximity of works to the waterway / waterbody
1.21	Is the project or work likely to result in any soil disturbance?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
1.22	Will the project or work require the stockpiling of any materials?	<input checked="" type="radio"/> Yes <input type="radio"/> No	

## SOIL AND WATER

Select the appropriate safeguards to manage the impacts

SW1	Soil and Water	All works shall be undertaken in a manner that will minimise site disturbance and avoids or minimises erosion and sedimentation.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW2	Soil and Water	All areas disturbed during the works shall be protected by installing appropriate erosion and sedimentation control measures so that sediment-laden runoff does not enter any drainage line or wetland. Measures may include: o diverting any potential upslope runoff and stormwater away from the site; o installing temporary erosion control devices (eg sediment fencing, sand bags, sediment basins); o temporary surface protection (eg surface mulching, geotextile/erosion control matting).	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW3	Soil and Water	All erosion and sediment control measures shall be checked and maintained on a regular basis so that they work effectively at all times, including removing trapped sediment before or when 30% capacity is reached. Control measures shall not be removed before the ground surface is stabilised.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW4	Soil and Water	A maintenance checklist shall be prepared for sites. Records shall be kept of all checks and maintenance and shall be provided to Water NSW on request. As a minimum this shall include a regular check of: o sediment fencing/bunding o any sign of erosion of the site or material o any impact on adjacent vegetation (material shall be kept outside the dripline of any tree) o the safe storage of any chemicals, fuels or lubricants o the height, gradient and stability of any stockpile (<2m high and 2:1 slope)	<input checked="" type="radio"/> Yes <input type="radio"/> N/A

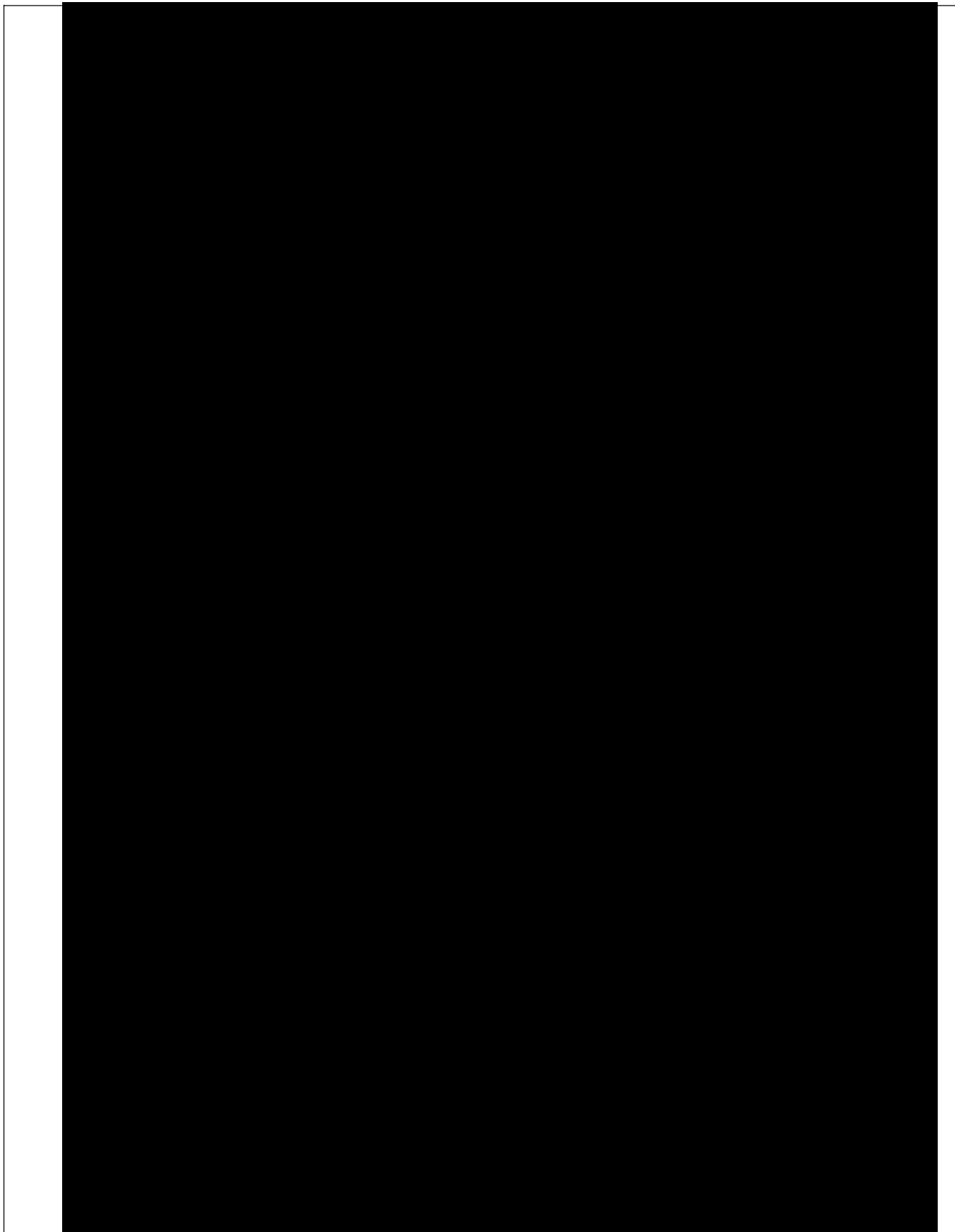
SW5	Soil and Water	Chemicals, fuels and lubricants shall be securely stored in approved containers and spill containment material shall be kept on site ready for immediate use. Bund capacity is to be at least 110 % of the largest container & 25% of the total stored volume	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW6	Soil and Water	No chemicals, fuels and lubricants shall be stored overnight on site unless specifically approved by Water NSW. If approved, these materials shall be stored with bunding within an established site compound, on a level area clear of native vegetation and at least 40m from any natural or built drainage line or wetland.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW7	Soil and Water	Plant and equipment shall not be refuelled within 20m of any natural or built drainage line or wetland. During any refuelling, spill containment material shall be on hand ready for immediate use.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW8	Soil and Water	Weather forecasts shall be regularly checked so that expected storm events can be taken into account in project planning and erosion and sediment management.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW9	Soil and Water	Temporary compounds and stockpiles shall be located: <ul style="list-style-type: none"> <li>o at least 40m from natural or built drainage lines or wetland;</li> <li>o on areas previously disturbed and that do not require the clearing of native vegetation;</li> <li>o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H);</li> <li>o beyond tree drip lines;</li> <li>o where there is no risk of impact on any indigenous or non-indigenous heritage site.</li> </ul>	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW10	Soil and Water	Topsoil shall be stockpiled separately from general spoil and reused wherever possible.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW11	Soil and Water	Concrete shall not be mixed within 20m of any natural or built drainage line or wetland. All concrete waste and any concrete washout shall be contained and removed for disposal off site at a lawful facility. Washout of trucks on site shall be minimised wherever possible.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
SW12	Soil and Water	Waste water generated during works shall be captured and: <ul style="list-style-type: none"> <li>- tested and treated before release back into the environment ensuring all water quality criteria are met;</li> <li>- disposed offsite at a lawful receiving facility;</li> <li>- sediment laden waters can be discharged in a manner that prevents sediments entering natural or built drainage lines or wetlands.</li> </ul>	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW13	Soil and Water	Silt booms shall be installed in the stream or water body around the work site, or immediately downstream. The silt booms shall be appropriately anchored to maximise the capture of any sediment laden water.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SW14	Soil and Water	Any mixing of paints is to be carried out over a waterproof membrane of at least 4 square metres in area. The contractor is to take all reasonable steps to prevent spillage of paint.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
1.23	Will the project or work result in the generation of any waste materials?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<i>This may include spoil, concrete, building materials, vegetation, wastewater, oil and grease.</i> <i>Will portable toilets be needed at the site?</i>
1.23.1	Provide details of the nature, amount of waste likely to be generated and proposed disposal	Negligible amount of unsuitable material will be removed from site to appropriate disposal facility as General Solid Waste.  No contaminants or hazardous materials anticipated.  All waste will be stored appropriately during the works and will be disposed of at an appropriately licensed facility in accordance with the NSW EPA Waste Classification Guidelines.	Refer to EPA <b>Waste Classification Guidelines</b> for classifying waste.  If the project or work involves the use and disposal of, or exposure to, contaminated/hazardous materials, dangerous goods or controlled chemicals, approval may be required from SafeWork NSW or EPA
<b>WASTE</b>			
Select the appropriate safeguards to manage the impacts			

W1	Waste	All working areas shall be maintained, kept free of rubbish and cleaned up at the end of each working day. Equipment and materials shall be securely stored.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W2	Waste	If the contractor is working at the same location for more than one day, self-contained portable ablution and toilet facilities shall be provided, unless otherwise specifically negotiated with Water NSW. These facilities shall be located at least 20m from any natural or built drainage line or wetland.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W3	Waste	The contractor shall be appropriately licensed to remove and dispose of all hazardous materials. Hazardous materials shall be handled and disposed in accordance with relevant Australian Standards, SafeWork NS and regulatory agency (EPA) guidelines.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
W4	Waste	All waste fluids generated during the works, including concrete wash, the washing of painting equipment and human effluent, shall be contained for proper disposal offsite in accordance with SafeWork NSW and NSW government guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W5	Waste	All waste removal, transport and disposal, including excess spoil, shall be in accordance with the EPA current guidelines for waste. Materials shall be recycled wherever possible. Dockets or equivalent evidence shall be obtained for all recycling and waste disposal, detailing the weights, materials, time and date and waste facility used. These dockets shall be available onsite and submitted with monthly reports and placed in ARK folder F2018/3432.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
1.24	Will the project or work have an impact on members of the public or surrounding areas?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Types of impact may include noise, dust, access, visual amenity. Surrounding land uses may be agricultural/other rural land uses, residential, recreational etc.
1.24.1	Provide details of the impact e.g. access, noise disturbance, dust.	Negligible impacts anticipated. Sites are remote in a rural location. Some minor increase in traffic along public roads may be experienced from construction vehicles and deliveries. Due to the remote nature of works and not in the vicinity of dwellings it is unlikely noise, dust or visibility impacts will affect the public.  Access to the site will primarily be via existing access tracks on WaterNSW property. A small section of private land, including a gate, will also need to be crossed. The gate will be left in the condition in which it is found.	
<b>COMMUNITY</b>			
Select the appropriate safeguards to manage the impacts			
C1	Community	A Community Engagement Plan, or equivalent, shall be prepared to the satisfaction of the Water NSW Communications Team before work commences.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
C2	Community	All contractors' (and any sub-contractors') personnel employed for the works shall maintain a tidy appearance and exercise courtesy in all dealings with the public.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
C3	Community	All access through, or work within any private property shall be undertaken with a minimum of inconvenience to the owner/ occupier	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
<b>NOISE AND VIBRATION</b>			
Select the appropriate safeguards to manage the impacts			
N1	Noise and Vibration	All practicable and feasible measures shall be taken to minimise noise. All vehicles, plant and equipment shall comply with relevant EPA and Workcover requirements.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
N2	Noise and Vibration	For any work approved to be undertaken outside standard hours, the emitted noise should not exceed the background noise level + 5dB(A)	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
<b>AIR QUALITY</b>			
Select the appropriate safeguards to manage the impacts			
AQ1	Air Quality	All practicable and feasible measures shall be taken to avoid raising excessive levels of dust.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
AQ2	Air Quality	All vehicles, plant and equipment shall be properly maintained to reduce vehicle and plant emissions. If visible smoke is seen for longer than 10 seconds duration from any engine while working on the site, the machine shall be taken out of service and adequately tuned or repaired so that such extended smoke emission no longer occurs.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
AQ3	Air Quality	Wherever possible, vehicles, plant and equipment shall be switched off when not in use.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A

AQ4	Air Quality	Hazardous material shall be handled as per relevant guidelines to avoid potential air pollution.	<input type="radio"/> Yes <input checked="" type="radio"/> No N/A
1.25	Will the project require new fences to be installed?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
1.25.2	Are temporary or new access tracks or roads to be developed?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
1.26	Are there any impacts on any Councils, utilities and/or roads?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Carry out a <b>dial-before-you-dig</b> if necessary or conduct a survey to indicate if any underground infrastructure is present, eg, water, sewer, power, telecommunications, council roads, otherwise contact the supply authority or local Council.
1.28	Are there any post-construction rehabilitation or future maintenance requirements?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Post rehabilitation may include replanting, rip rap and making good of a disturbed area.
1.29	Is a Construction Environmental Management Plan (CEMP) required?	<input checked="" type="radio"/> Yes <input type="radio"/> No	A CEMP demonstrates how & where site specific environmental controls or safeguards will be implemented at the project site. Not all projects or works need to have a CEMP prepared, for example small scale works with few potential impacts. The CEMP must address the safeguards identified in the EIA for the project. (refer to CD2015/188* - CEMP Condensed Template)
1.30	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Minor and routine works not requiring a CEMP can still require specific mitigation measures.
1.31	What is the myWaterNSW Aboriginal Heritage Assessment request number?	PTM0695192 - Dharawal Environment and Heritage (Dharawal EH) completed an Aboriginal Cultural Heritage Assessment Report (ACHAR) (D2026/9085) and Archaeological Report (AR) (D2026/9083) to inform the Lake Brewster Remediation Project: Rural Flood Recovery Program Levee K and Levee L.  The archaeological field assessment in the Subject Area was undertaken on 18 November 2025.  A total [REDACTED] during on the [REDACTED]  These objects were assessed as being in a highly disturbed context, introduced with soil and stone material to stabilise the Levee's during construction and maintenance. The location of the soil and stone material is difficult to confirm, although it is believed that the larger stones were sourced from nearby Rankin Springs, and the soil is possibly sourced from a local historical borrow pit. The following Aboriginal Heritage Information Management System (AHIMS) sites have been registered within the Subject Area, following the field assessment: [REDACTED]	An Aboriginal Cultural Heritage Field Assessment is needed for all new infrastructure; maintenance and upgrades of existing infrastructure where there is no previous assessment; environmental surveys; and vehicle movements off approved access tracks.
Thank you for completing Section 1 of this Minor Works Environmental Impact Assessment . Ensure you have saved this form to ARK and included the ARK reference number above. Go to myWaterNSW, click 'Request Something' & create a service request for Environmental Services. <b>Does the work trigger an Aboriginal Heritage Field Assessment? If so, it is required to complete the EIA.</b>		Save to ARK and go to <b>myWaterNSW</b> to create a service request	
<input checked="" type="radio"/>	Environmental Services Team - Once Section 1 has been submitted, check that all questions are completed. If Section 1 is incomplete refer back to the Project Manager with comments. Environmental Services will complete section 2 & 3 of the assessment.		

SECTION 2 ENVIRONMENTAL CONSIDERATIONS			
	QUESTIONS	ANSWERS	HERITAGE TO BE CHECKED
2.1	Will the project / work occur on a heritage item? Is the work site or asset identified on the WaterNSW s170 heritage register, the State heritage register, National Heritage List or identified as a local heritage item on the LEP?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Heritage to be checked: 1. WaterNSW S170 Register (D2016/73126) 2. NSW Planning Portal 3. Relevant Council LEP 4. State Heritage Inventory Database
2.1.1	Identify and describe the works with regard to the heritage significance.	<p>Levee K and Levee L are both listed on the s.170 inventory and are subject to conservation and management policies and guidelines with details presented in the Lake Brewster Conservation Management Plan (CMP) (ACHM, 2014) (DOC14/9453). Policy 8 of the CMP requires the assessment of archaeological potential of Levee K and Levee L when undertaking major excavation works.</p> <p>The proposed works are assessed as having no more than a minor or inconsequential impact on the heritage significance of the Levees. The works will have a positive impact as it will prevent future impacts from flooding and improve the general visual amenity of the area which has been impacted by flooding.</p> <p>Dharawal EH completed the site investigation, liaised with Local RAPs and HeritageNSW to inform the ACHAR. Dharawal EH will submit the ACHAR and determined EIA with the AHP Application to DCCEEW.</p>	
2.1.2	Will there be ground disturbance at a locally significant site or where a relic is predicted to occur?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Refer first to the <b>Heritage NSW Archeological Exceptions</b> as guidance for works which may be done under the Exceptions (ensuring you can also meet the General conditions) or secondly the <b>WaterNSW Exceptions</b> (D2022/152136). If the work can be done under either Exception it must be recorded in D2020/133333. If the proposed activities/works do not comply with the Exceptions, approval under s149 of the Heritage Act 1977 may be required.  Consult with the Heritage Specialist or Adviser
2.1.3	Is the item identified on the LEP as locally significant?	<input type="radio"/> Yes <input checked="" type="radio"/> No	If yes notification to Council with provision of a heritage impact assessment for the works is required, and any comments received within 21 days must be considered.  Consult the Heritage Specialist for advice ⓘ
2.1.5	Is the item only listed on the WaterNSW s170 Register or will it be demolished or partially demolished or become unoccupied?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Discuss with the Heritage Specialist or Adviser for advice.  If demolition or vacating is occurring, notification to Heritage NSW must be undertaken immediately.
<b>To be Exempt Development – must involve no more than minimal impact on the heritage significance of the item or area [Refer TISEPP cl.2.20 (e), (f)]</b>			
2.1.7	Include details that support the above conclusions and any outcomes of consultation with the heritage specialist.	Exemptions not applicable to s170 Register.	
2.1.8	Is the item identified on the National Heritage List?	<input type="radio"/> Yes <input checked="" type="radio"/> No	If yes contact the Heritage Specialist or Adviser to discuss the impact of works and test against the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) to ensure that the works do not have a significant impact on MNES.
2.1.9	Detail specific requirements or measures that need to be included in the Environmental Approval.		SR2
2.2	Are there any: - relevant confirmed site records or other associated landscape feature information on AHIMS? and/or - an Aboriginal Place? - other sources of information of which a person is already aware? and/or	<input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Landscape features</b> that indicate the likely existence of Aboriginal objects.  Is the proposed activity <ul style="list-style-type: none"> <li>• within 200 metres of waters</li> <li>• within sand dunes on a ridge top/ridge line/headland</li> <li>• within 200 metres of the top or bottom of a cliff face</li> <li>• within 20m of or within a cave, rock shelter or a cave mouth</li> </ul>

	<p>- landscape features that are likely to indicate the presence of Aboriginal objects? - an ILUA in place?</p>		<p><i>AND the land is NOT previously disturbed</i></p> <p><b>An Aboriginal Heritage Information Management System (AHIMS) Web Services search must be undertaken using 200m buffer of the project or work and if positive undertake within 50m.</b></p> <p><b>ILUA - Indigenous Land Use Agreement - use Nula</b></p>



2.2.1	Can harm to Aboriginal objects listed on AHIMS or identified by other sources of information and/or can the carrying out of the activity within the relevant landscape features, be avoided?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>Possible solutions may include reducing the footprint area; re-positioning elements; re-routing infrastructure trenching or incorporating a no-development area into the site design.</i>
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2.2.3	Provide outcomes of consultation with First Nations Team regarding the site assessment and Heritage specialist.	<p>An AHIP application is required under Section 90a of the National Parks and Wildlife Act 1974, for impact in its entirety, by way of community collection and relocation (burial) of registered Aboriginal objects or [redacted] within the Subject Area for the following AHIMS sites:</p> <ol style="list-style-type: none"> <li>1. [redacted]</li> <li>2. [redacted]</li> </ol> <p>Refer to Lake Brewster Remediation Project: Rural Flood Recovery Program [redacted] Aboriginal Cultural Heritage Assessment Report (ACHAR) (D2026/9085) and Archaeological Report (AR) (D2026/9083) for details of the assessment and RAP consultation.</p>	<p><i>If your project or works is on land that is not disturbed land or contains known Aboriginal objects, engage expert to undertake desktop assessment and visual inspection of the area to see if Aboriginal objects can be identified or are likely to be present below the surface. Where Aboriginal objects are likely in the area of the proposed activity, an AHIP will be required.</i></p>
2.2.4	Provide details of any specific requirements that need to be included in the Environmental Approval?	<p>Recommendations as per the ACHAR (D2026/9085) and AR (D2026/9083) including:</p> <ol style="list-style-type: none"> <li>1. Community Consultation</li> <li>2. Application for Aboriginal Heritage Permit from DCCEEW</li> <li>2. Establish Heritage Conservation No Go Zone</li> <li>3. Community Consultation</li> <li>4. Site Awareness Training</li> <li>5. Discovery of Aboriginal ancestral remains and on-site implementation of the WaterNSW Unexpected Aboriginal Cultural Heritage Finds Procedure (CD2012/184*).</li> </ol> <p>Conditions of Consent of the AHIP must be implemented and adhered to.</p>	SR3

**HERITAGE**

**Select the appropriate safeguards to manage the impacts**

H1	Heritage	Site induction shall include awareness of the heritage significance of the site. This shall include the importance of preventing accidental damage to any structure or historical remnants such as roads, steps & stairs, curbing, footings & foundations and picnic area facilities or interfering with any material associated with the heritage item.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
H2	Heritage	All activities or work undertaken within the heritage precinct shall be carried out in a manner that will protect the fabric of the heritage item from damage or interference during the work.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
H3	Heritage	If problems are encountered that necessitate a major change in the work method, works shall cease until the significance of the change can be assessed. The Water NSW Environmental Services Team shall be contacted for advice. Note: the works may require re-approval prior to recommencing, depending on the changes.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
H4	Heritage	Replacement of missing, damaged or deteriorated fabric shall match existing fabric in appearance, material and method of fixing. If this is not possible, specific advice shall be obtained from the Water NSW Environmental Services Team before undertaking the replacement.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
H5	Heritage	Painting shall be done using the Water NSW approved colour scheme available from the Heritage Adviser. If any specified colour is not available, Water NSW Heritage Adviser approval shall be obtained before an alternative colour is used.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
H7	Heritage	The Upper Canal is potentially fragile due to its age and is heritage listed. The works shall be designed and undertaken in such a way that the Upper Canal is adequately protected from ground vibration and structural damage.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A

2.3	<p>Is the project or work within or likely to affect any of the following?</p> <ul style="list-style-type: none"> <li>- Declared Wilderness Area</li> <li>- Declared Area of Outstanding Biodiversity Value</li> <li>- Critical habitat of an endangered species, population or ecological community</li> </ul>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>There are 49 areas of Wilderness across NSW, 4 affecting the Sydney Drinking Water Catchments: Look up details using NULA.</p> <p>For land declared critical habitat, check:</p> <ol style="list-style-type: none"> <li>1. <b>OEH Critical Habitat Register</b></li> <li>2. <b>DPI Fisheries Register of Critical Habitat</b></li> </ol> <p>Exempt development cannot be carried out in critical habitat of an endangered species, population or ecological community (identified under the Biodiversity Conservation Act or the Fisheries Management Act)</p> <p>An <b>Area of Outstanding Biodiversity Value</b> is declared under the Biodiversity Conservation Act 2016 and includes critical habitat.</p>
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2.3.1	Provide detailed project information relevant to the searches undertaken that supports the outcome.	<p>Lake Brewster is considered an area of high biodiversity value. The Flora and Fauna Impact Assessment completed for the Lake Brewster Levee Repair by Mjadwesch Environmental (D2025/9133) determined that the proposed works do not have the potential to significantly impact any threatened species or community.</p>	
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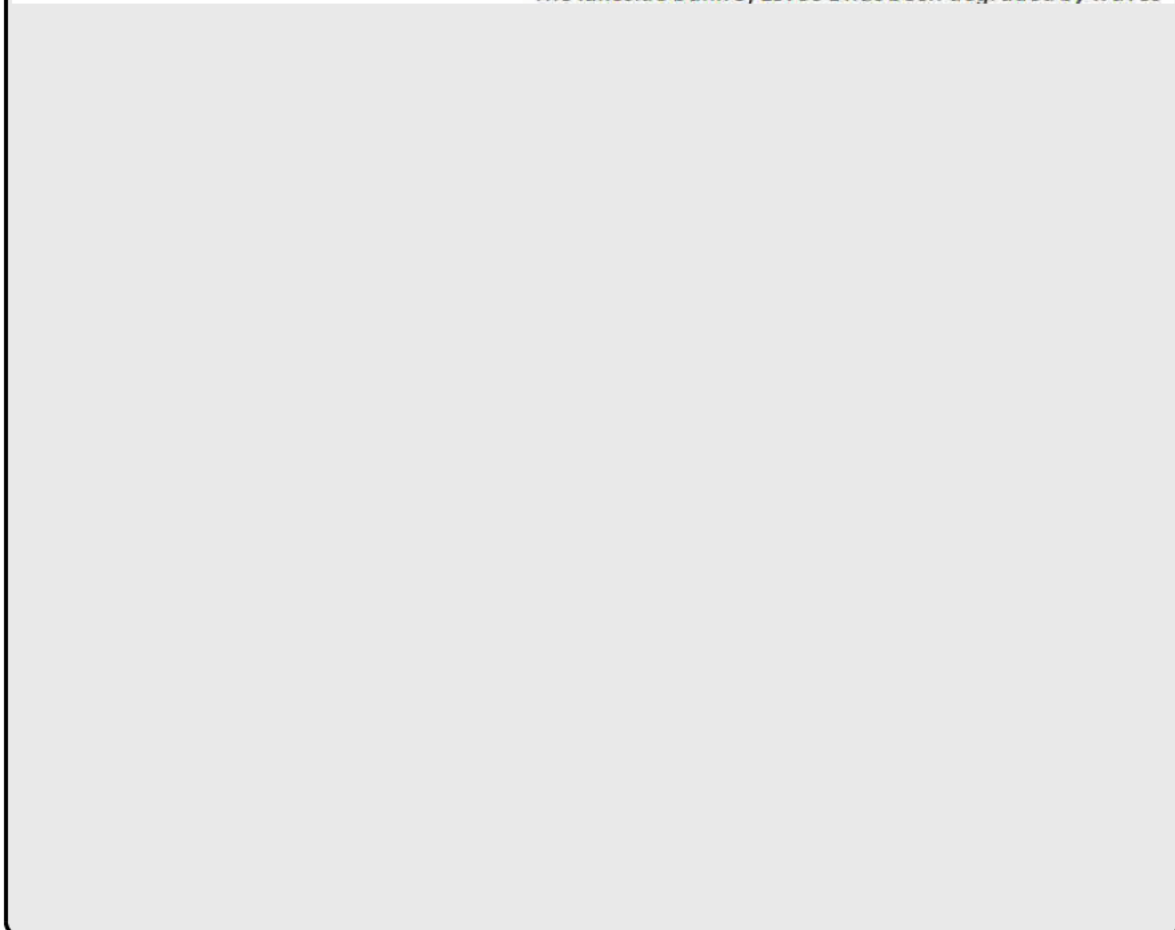
2.4	<p>Is the project or works within or likely to affect any of the following areas:</p> <ul style="list-style-type: none"> <li>• World Heritage Land or land to which SEPP (Resilience &amp; Hazards) 2021 applies</li> <li>• Wetlands and/or migratory birds</li> <li>• National Parks or Land covered by a Conservation Agreement</li> </ul>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>The Warragamba Special Area is within the Greater Blue Mountains <b>World Heritage Area</b>.</p> <p>See SEPP (Exempt &amp; Complying Development) 2008 Clause 1.5 for inclusions of environmentally sensitive areas, use hyperlink to check:</p> <ul style="list-style-type: none"> <li>- an aquatic reserve under the Fisheries Management Act 1994 or a marine park under the Marine Parks Act 1997</li> <li>- A RAMSAR wetland or a World Heritage area declared under the World Heritage Convention</li> </ul> <p>If works will impact on National Park or area with a conservation agreement consultation is required.</p>
2.5	<p>Are there any known contamination/hazardous materials issues?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>Examples may include asbestos, contaminated soil.</p> <p><b>NULA</b> Contaminated Land Risk Register (D2016/135491) and Hazardous Materials Register (D2015/74763). Register - Gauging Stations, 26 November 2014 - Asbestos NSW Office of Water D2015/74762</p>
2.6	<p>Does the project or works require consent under State Environmental Planning Policy (Biodiversity and Conservation) 2021 or the Local Land Services Act 2013?</p> <p>Use the <b>Native Vegetation Regulatory Maps</b> to determine vegetation category.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>Check permissibilities under the LLS Act and State Environmental Planning Policy (Biodiversity and Conservation) 2021.</p> <p>Refer to the <b>Local Land Services Act 2013 Section 60A 60O 60Q Schedule 5A</b> for authorisations and permissibilities.</p>
2.6.1	<p>Provide details about the extent and nature of the clearing activity. Include what authorisations exist or approvals are required.</p>	<p>Native vegetation clearance not required.</p>	<p>Ensure no ancillary activities require clearing.</p> <p>Record justification if clearing can be undertaken without approval.</p> <p>Attach evidence of consultation where required.</p>



*Levee K has been heavily eroded*



*The lakeside bank of Levee L has been degraded by waves*



2.7	<b>Is the project or work likely to have only a minimal impact on the environment?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>A project is likely to have more than a minimal impact if for example:</i> <ul style="list-style-type: none"><li>- a license or permit is required</li><li>- it is carried out in a waterway where flow interruptions are required</li><li>- there is likely to be a community impact</li></ul>
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			<ul style="list-style-type: none"> <li>• it will result in the clearing of mature trees or a large area of understorey or native grasses</li> <li>• it will impact on an aboriginal heritage item</li> <li>• it will result in largescale soil disturbance</li> <li>• it will result in an increase in hard surfaces</li> <li>• it will result in the creation of new tracks, roads</li> <li>• it will result in more than minimal modifications / alterations to items of State or local significance</li> </ul>
2.7.1	Provide all additional information relevant to the activity that supports the above assessment.	<p>These works will stabilise Levees K and L of Lake Brewster.</p> <p>An AHIP application is required under Section 90a of the National Parks and Wildlife Act 1974 for impact in its entirety, by way of community collection and relocation (burial) of registered Aboriginal objects on [REDACTED] within the Subject Area for the following AHIMS sites:</p> <ol style="list-style-type: none"> <li>1. [REDACTED]</li> <li>2. [REDACTED]</li> </ol> <p>The Flora and Fauna Impact Assessment completed for the Lake Brewster Levee Repair by Mjadwesch Environmental on 20 December 2024 (D2025/9133) determined that the limited scope of works precludes any potential for any significant impact on any threatened species or community which may be affected by the proposed remediation program. With suitable controls in place risks to individual animals and impacts on their habitat can also be minimised.</p> <p>Lake Brewster is mapped as habitat for threatened fish species. Aquatic species within the Lake will not be adversely impacted. Habitat of aquatic or terrestrial threatened species that may be present will not be impacted.</p> <p>Remediation of these levees will therefore result in minimal impact on biodiversity and habitat connectivity, while facilitating necessary works within a previously disturbed landscape.</p>	Details here will not appear elsewhere on the approval. Whether Yes or No response is provided, add supporting details.
2.7.4	Does the project or work fall within one of the development categories permitted without consent listed under SEPP (Transport and Infrastructure) 2021 and does the project or work comply with any criteria specified in the relevant clause?	<input checked="" type="radio"/> Yes <input type="radio"/> No	If there is no applicable development category, consider what approval mechanism is most likely to apply for the project.
2.7.5	Detail the planning instrument, development category and development without consent type that best describes the project or works?	<p>SEPP (Transport and Infrastructure) 2021</p> <p>2.159 Development permitted without consent</p> <p>2A) Development for the purposes of the maintenance or replacement of existing water storage facilities may be carried out by or on behalf of a public authority without consent on any land.</p>	
<b>Complete Section 3 Minor Works Review of Environmental Factors</b>			
2.8	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during the project?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
2.8.1	Provide details. Add specific stakeholder requirements or safeguards that need to be included in the Environmental Approval.	<ul style="list-style-type: none"> <li>- Machinery is to be clean and kept free of propagules</li> <li>- Clean fill and rock armour is to be used to minimize the introduction and dispersal of exotic species</li> <li>- Concentrations of High Threat Weeds (including but not necessarily limited to Great Brome (Bromus diandrus), Ward's Weed (Carrichtera annua), Umbrella Sedge (Cyperus eragrostis), African Boxthron (Lycium ferocissimum), Lippia (Phyla canescens) and Bathurst Burr (Xanthium spinosum)) are to be treated and cleared from work areas</li> <li>- Work operations are to be restricted to the prescribed work areas</li> <li>- Spill kits will be kept on site at all times</li> <li>- Sediment controls will be in place before excavation commences</li> <li>- Work along the Lachlan River and Lake Brewster waters edge will be conducted during periods of low flow / low water level</li> <li>- If it is necessary to remove woody debris from work areas it is to be retained in adjacent areas</li> </ul> <p>Any fauna injuries are to be notified to WARES on 1300 094 737</p>	
2.9	Does the project or works require notification under the Fisheries Management Act?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>Activities that could trigger requirement include:</p> <ul style="list-style-type: none"> <li>• Dredging or reclamation on water land (S198A and C263)</li> <li>• Construction, alteration or modifications to a dam, weir or reservoir (S218)</li> </ul>

			<ul style="list-style-type: none"> <li>• Interruptions to water flows or does the project or work obstruct the passage of fish (S219)</li> </ul>
2.9.1	Provide details of aquatic impacts. Add specific project safeguards and/or Fisheries requirements & safeguards that need to be included in the Environmental Approval.	<p>Lake Brewster and the Lachlan River are identified as Key Fish Habitat by DPIRD Fisheries. Consultation under s.199 of the Fisheries Management Act 1994 for dredging/reclamation associated with Lake Brewster Flood Recovery Works was undertaken and a response received 12 February 2025. DPIRD Fisheries has no objections to the works being undertaken as described and provides the considerations in accordance with the Fisheries Management Act 1994 (D2025/11115). Additional recommendations must be implemented if feasible:</p> <ul style="list-style-type: none"> <li>- Works should be undertaken during periods of low flows in the waterway, and where possible when the Bureau of Meteorological forecast for the Region indicates clear, dry weather.</li> <li>- Snags are not to be realigned, relocated, or removed without prior consultation with and agreement from DPI Fisheries.</li> <li>- Machinery should only enter or work from the waterway in accordance with best management practice and an agreed work method statement.</li> <li>- To protect riparian and aquatic vegetation DPIRD Fisheries recommends identifying and appropriately delineating riparian and aquatic vegetation on water land as "No Go" areas (with the aim of avoiding harm to these areas).</li> </ul>	PS4

**SECTION 3 MINOR WORKS REVIEW OF ENVIRONMENTAL FACTORS**

	QUESTIONS	ANSWERS	GUIDANCE
3.1	Are the project or works outside of standard construction hours (refer 1.10)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>The planned site work hours were identified at 1.10.</p> <p>Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays.</p> <p>Non-standard hours may require additional noise assessments to be prepared.</p> <p>Refer - <b>NSW EPA Interim Construction Noise Guidelines</b> for assessment guidance. Note: these guidelines are to be replaced , refer NSW EPA construction noise web site for changes.</p>
3.2	Does the project or work require a permit/ approval under the Water Act and/or Water Management Act?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>Activities that could trigger requirement include:</p> <ul style="list-style-type: none"> <li>• Water supply, drainage or flood works</li> <li>• Affect flow of water to or from river or lake (e.g. a levee on a floodplain)</li> <li>• Water use (e.g. water extraction from a river)</li> </ul>
3.3	Does the project or work require a permit/ approval/consultation from any other relevant authorities/agencies?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>Note: Relevant authorities/ agencies may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>- LLS (natural resource management)</li> <li>- DPE-Environment/NP&amp;WS (works on or adjacent to land reserved under National Parks &amp; Wildlife Act)</li> <li>- DPI – NSW Crown Lands Division</li> <li>- DPI – State Forests</li> <li>- Local Council ( flood liable land)</li> <li>- Roads and Maritime Services (works affecting RMS roads or in navigable waters</li> <li>- MDBA (River Murray works)</li> <li>- TISEPP consultation</li> </ul>
3.4	Will the project or work involve working in the riverine land of the Murray River, the waters and the bed and banks of its tributaries and associated water bodies OR along the NSW Border?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>Check map indexes to see affected areas STW130254 e.g. Conargo, Corowa, Deniliquin, Hume, Murray, Wakool, Wentworth and Windouran</p>
3.5	Will the project or work (including any access tracks or ancillary works) affect, or likely to affect, any threatened species, population, ecological community or their habitat? (this includes State or Commonwealth listings)	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>Check:</p> <ol style="list-style-type: none"> <li>1. OEH Critical Habitat Register</li> <li>2. NSW BioNet - NSW Wildlife Atlas Search</li> <li>3. Threatened fish species</li> <li>4. EPBC - Protected Matters SearchTool</li> </ol> <p><a href="https://www.environment.gov.au/epbc/what-is-protected">https://www.environment.gov.au/epbc/what-is-protected</a></p>
3.6	Will the project or work have an affect on a Matter of National Environmental Significance?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>The <b>EPBC - Protected Matters SearchTool</b> can be used to find out if an area is likely to contain MNES.</p> <p>For guidance on undertaking an Assessment of Significant Effect refer to the <b>Significant Impact Guidelines 1.1 - Matters of National Environmental Significance</b></p>

3.7	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<i>Is there anything special about the site that needs to be protected? Are there any site specific controls or measures that you think the contractor needs to understand and follow?</i>
3.7.1	Provide details	Additional measures as recommended by Heritage NSW and DPIRD Fisheries (D2025/11115). Access to the site will primarily be via existing access tracks on WaterNSW property. A small section of private land, including a gate, will also need to be crossed. The gate will be left in the condition in which it is found.	PS2
3.8	Is the activity likely to significantly affect the environment including, critical habitat, threatened species, populations or ecological communities or their habitats?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>Part 5 of EP&amp;A Act, states if the activity is "likely to significantly affect the environment (including critical habitat) or threatened species, populations or ecological communities, or their habitats", then there is likely to be a significant impact and an EIS/SIS must be prepared, see Sections 5.1 &amp; 5.5.</i>
3.8.1	What is the likely impact of the activity on the environment?	The Flora and Fauna Impact Assessment completed for the Lake Brewster Levee Repair by Mjadwesch Environmental on 20 December 2024 (D2025/9133) determined that the limited scope of works precludes any potential for any significant impact on any threatened species or community which may be affected by the proposed remediation program. With suitable controls in place risks to individual animals and impacts on their habitat can also be minimised.  Conditions of consent as specified in the AHIP to be followed to reduce the impact on Aboriginal items.	<i>When considering the likely impact of an activity on the environment, the proponent and determining authority must take into account the factors listed in clause 171(2) of the EP&amp;A Regulation or Table 1 of the Guidelines for Division 5.1 Assessments.</i>
Section 4 – Environmental Approval to be completed, finalised, filed in ARK project folder and sent to the Project Manager			

SECTION 4 ENVIRONMENTAL APPROVAL			
Project Details			
myWaterNSW Request #: RITM	RITM0998944	ARK Minor Works EIA Form #	D2026/8890
WaterNSW Contact	[REDACTED]	Project Location	Southern embankment of Lake Brewster - Levees K & L.
Project Title	Lake Brewster Remediation of Flood Damaged Levees K&L		
Approved Activity	<p>The contractor is to undertake full remediation of flood-damaged embankments of the Subject Area. The works are subject to variation based on final project requirements and will follow an extensive remediation sequence as below:-</p> <ul style="list-style-type: none"> <li>- Site Preparation – Service locating, weed management, clearing, grubbing and removal of loose soil/topsoil and unsuitable material off-site.</li> <li>- Material Handling – Segregate and stockpile rocks for reuse; remove eroded material and stockpiling of reusable material and any imported material.</li> <li>- Backfilling – Place engineering fill in ≤200mm layers compacted to 98% standard compaction per WaterNSW GS-002.</li> <li>- Geotextile Installation – Install Texcel 600R (or approved equivalent), anchored securely without damage.</li> <li>- Bedding and Armour Layers – Place 200mm bedding rock (D50=100mm), then 500mm armour rock (D50=450mm), forming a 700mm thick riprap structure.</li> <li>- Riprap Embankment Construction – Build progressively riverside to earth side, with a minimum slope of 1V:2H, following GS-002 and GS-003.</li> <li>- Quality and Access Requirements – Maintain 3.5m width of access road; if soft spots are identified by site engineer during construction, material is to be removed, the subgrade scarified and imported material is to be installed in accordance with design specification.</li> <li>- A designated borrow pit (4) for the use of material is to be imported to Levee K and Levee L for additional stabilisation. Borrow pit establishment - includes stripping of top soil and excavation of suitable material for works. The borrow pit (4) has been subject to previous heritage assessment and approved for use.</li> <li>- Clean and reinstate any/all modified ground surfaces.</li> </ul>		
Project Manager Responsibilities			
<p>In carrying out the project or works, it is the Project Manager's responsibility to ensure that the works are carried out as described within this assessment and that all safeguards listed within this approval are complied with. The Project Manager must also ensure that all licences, permits and approvals are obtained and maintained as required and that all statutory and regulatory requirements are complied with throughout the project or works. The Project Manager is also to ensure compliance with the Building Code of Australia and other relevant technical, manufacturer or industry standards as may be required.</p>			
CEMP Requirement			
<p>A Construction Environmental Management Plan (CEMP), or equivalent, shall be prepared addressing the environmental safeguards identified in the EIA approval and any appropriate industry standards. The CEMP shall be submitted to the Environmental Services team for review and approval prior to on-ground works commencing.</p>			
Environmental Safeguards			
General			
G1	All WaterNSW Work Health and Safety requirements must be adhered to.		
G2	All complaints and compliments shall be directed to - <a href="mailto:feedback@waternsw.com.au">feedback@waternsw.com.au</a> or 1300 662 077.		
G3	All environment incidents shall be addressed in accordance with WaterNSW's Environmental Incident Management Procedure <b>CD2016/6*</b> .		
G4	If works have not commenced within 2 years of this approval, the EIA form must be re-submitted prior to the commencement of works, to ensure the controls remain in line with current legislation and internal procedures including re-approval by the Environmental Services team.		
G5	Site inductions shall include all aspects, impacts and controls identified in the EIA/REF and Environmental Approval.		
G6	For any shutdown, completion of Site Shutdown (RACS requirement) shall be completed at least 24 hours prior to shutdown commencing.		
G7	Approved Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays. For any proposed works outside approved standard construction hours, an Out of Hours Application <b>CD2015/210*</b> shall be submitted to the Environmental Services team, allowing 10 working days for approval.		
G8	If any items which have the potential to be of heritage significance are encountered, works shall cease until the significance of the item can be established. The Water NSW Environmental Services Team should be contacted for advice on the appropriate course of action to take.		
G9	If any Aboriginal cultural material (e.g. relics such as stone tools, worked bone or fire hearths) is encountered within or immediately adjacent to the work area, work shall stop immediately until the significance of the item can be established. Water NSW Procedure <b>CD2012/184*</b> - Unexpected Aboriginal Objects Procedure should be followed.		
G10	All sediment and erosion controls shall be installed according to the requirements of <i>Managing Urban Stormwater: Soils and Construction - Volume 1, 4th Edition 'Blue Book'</i> .		
G11	WaterNSW Tree Clearing Permit CD2021/110* must be completed and authorised by the works supervisor before vegetation removal activities commence.		
Community			
C2	All contractors' (and any sub-contractors') personnel employed for the works shall maintain a tidy appearance and exercise courtesy in all dealings with the public.		
C3	All access through, or work within any private property shall be undertaken with a minimum of inconvenience to the owner/occupier		
Traffic and Utilities			

<b>Special and Contolled Areas</b>	
<b>Soil and Water</b>	
SW1	All works shall be undertaken in a manner that will minimise site disturbance and avoids or minimise erosion and sedimentation.
SW2	All areas disturbed during the works shall be protected by installing appropriate erosion and sedimentation control measures so that sediment-laden runoff does not enter any drainage line or wetland. Measures may include: <ul style="list-style-type: none"> <li>o diverting any potential upslope runoff and stormwater away from the site;</li> <li>o installing temporary erosion control devices (eg sediment fencing, sand bags, sediment basins);</li> <li>o temporary surface protection (eg surface mulching, geotextile/erosion control matting).</li> </ul>
SW3	All erosion and sediment control measures shall be checked and maintained on a regular basis so that they work effectively at all times, including removing trapped sediment before or when 30% capacity is reached. Control measures shall not be removed before the ground surface is stabilised.
SW4	A maintenance checklist shall be prepared for sites. Records shall be kept of all checks and maintenance and shall be provide to Water NSW on request. As a minimum this shall include a regular check of: <ul style="list-style-type: none"> <li>o sediment fencing/bunding</li> <li>o any sign of erosion of the site or material</li> <li>o any impact on adjacent vegetation (material shall be kept outside the dripline of any tree)</li> <li>o the safe storage of any chemicals, fuels or lubricants</li> <li>o the height, gradient and stability of any stockpile (&lt;2m high and 2:1 slope)</li> </ul>
SW5	Chemicals, fuels and lubricants shall be securely stored in approved containers and spill containment material shall be kept on site ready for immediate use. Bund capacity is to be at least 110 % of the largest container & 25% of the total stored volume
SW6	No chemicals, fuels and lubricants shall be shall be stored overnight on site unless specifically approved by Water NSW. If approved, these materials shall be stored with bunding within an established site compound, on a level area clear of native vegetation and at least 40m from any natural or built drainage line or wetland.
SW7	Plant and equipment shall not be refuelled within 20m of any natural or built drainage line or wetland. During any refuelling, spill containment material shall be on hand ready for immediate use.
SW8	Weather forecasts shall be regularly checked so that expected storm events can be taken into account in project planning and erosion and sediment management.
SW9	Temporary compounds and stockpiles shall be located: <ul style="list-style-type: none"> <li>o at least 40m from natural or built drainage lines or wetland;</li> <li>o on areas previously disturbed and that do not require the clearing of native vegetation;</li> <li>o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H);</li> <li>o beyond tree drip lines;</li> <li>o where there is no risk of impact on any indigenous or non-indigenous heritage site.</li> </ul>
SW10	Topsoil shall be stockpiled separately from general spoil and reused wherever possible.
SW12	Any wastewater generated during the works shall be contained for disposal offsite at a lawful facility. Water contaminated with sediment can only be discharged in a manner that prevents the sediment entering natural or built drainage lines or wetland.
SW13	Silt booms shall be installed in the stream or water body around the work site, or immediately downstream. The silt booms shall be appropriately anchored to maximise the capture of any sediment laden water.
<b>Flora and Fauna</b>	
<b>Pest and Weed Control</b>	
<b>Air Quality</b>	
AQ1	All practicable and feasible measures shall be taken to avoid raising excessive levels of dust.
AQ2	All vehicles, plant and equipment shall be properly maintained to reduce vehicle and plant emissions. If visible smoke is seen for longer than 10 seconds duration from any engine while working on the site, the machine shall be taken out of service and adequately tuned or repaired so that such extended smoke emission on longer occurs.
AQ3	Wherever possible, vehicles, plant and equipment shall be switched off when not in use.
<b>Noise and Vibration</b>	
N1	All practicable and feasible measures shall be taken to minimise noise. All vehicles, plant and equipment shall comply with relevant EPA and Workcover requirements.
<b>Heritage</b>	

H1	Site induction shall include awareness of the heritage significance of the site. This shall include the importance of preventing accidental damage to any structure or historical remnants such as roads, steps & stairs, curbing, footings & foundations and picnic area facilities or interfering with any material associated with the heritage item.
H2	All activities or work undertaken within the heritage precinct shall be carried out in a manner that will protect the fabric of the heritage item from damage or interference during the work.
H3	If problems are encountered that require a major change in the work method, works shall cease until the significance of the change can be assessed. The Water NSW Environmental Services Team shall be contacted for advice. Note: the works may require re-approval prior to recommencing, depending on the changes.
<b>Waste</b>	
W1	All working areas shall be maintained, kept free of rubbish and cleaned up at the end of each working day. Equipment and materials shall be securely stored.
W2	If the contractor is working at the same location for more than one day, self-contained portable ablution and toilet facilities shall be provided, unless otherwise specifically negotiated with Water NSW. These facilities shall be located at least 20m from any natural or built drainage line or wetland.
W4	All waste fluids generated during the works, including from the washing of painting equipment and human effluent, shall be contained for proper disposal offsite in accordance with Workcover and NSW government guidelines.
W5	All waste removal, transport and disposal, including excess spoil, shall be in accordance with the regulatory agency's (EPA) current guidelines for waste. Materials shall be recycled wherever possible. Dockets or equivalent evidence shall be obtained for all recycling and waste disposal, detailing the weights, materials, time and date and waste facility used. These dockets shall be available onsite and submitted with monthly reports.
<b>Site Decommissioning and Restoration</b>	
<b>Fencing</b>	
<b>PROJECT SPECIFIC SAFEGUARDS</b>	
PS2	Additional measures as recommended by Heritage NSW and DPIRD Fisheries (D2025/11115). Access to the site will primarily be via existing access tracks on WaterNSW property. A small section of private land, including a gate, will also need to be crossed. The gate will be left in the condition in which it is found.
PS4	Lake Brewster and the Lachlan River are identified as Key Fish Habitat by DPIRD Fisheries. Consultation under s.199 of the Fisheries Management Act 1994 for dredging/reclamation associated with Lake Brewster Flood Recovery Works was undertaken and a response received 12 February 2025. DPIRD Fisheries has no objections to the works being undertaken as described and provides the considerations in accordance with the Fisheries Management Act 1994 (D2025/11115). Additional recommendations must be implemented if feasible: - Works should be undertaken during periods of low flows in the waterway, and where possible when the Bureau of Meteorological forecast for the Region indicates clear, dry weather.- Snags are not to be realigned, relocated, or removed without prior consultation with and agreement from DPI Fisheries.- Machinery should only enter or work from the waterway in accordance with best management practice and an agreed work method statement.- To protect riparian and aquatic vegetation DPIRD Fisheries recommends identifying and appropriately delineating riparian and aquatic vegetation on water land as "No Go" areas (with the aim of avoiding harm to these areas).
<b>STAKEHOLDER REQUIREMENTS</b>	
SR2	
SR3	Recommendations as per the ACHAR (D2026/9085) and AR (D2026/9083) including: 1. Community Consultation 2. Application for Aboriginal Heritage Permit from DCCEEW 2. Establish Heritage Conservation No Go Zone 3. Community Consultation 4. Site Awareness Training 5. Discovery of Aboriginal ancestral remains and on-site implementation of the WaterNSW Unexpected Aboriginal Cultural Heritage Finds Procedure (CD2012/184*). Conditions of Consent of the AHIP must be implemented and adhered to.
SR9	- Machinery is to be clean and kept free of propagules - Clean fill and rock armour is to be used to minimize the introduction and dispersal of exotic species - Concentrations of High Threat Weeds (including but not necessarily limited to Great Brome (Bromus diandrus), Ward's Weed (Carrichtera annua), Umbrella Sedge (Cyperus eragrostis), African Boxthron (Lycium ferocissimum), Lippia (Phyla canescens) and Bathurst Burr (Xanthium spinosum)) are to be treated and cleared from work areas - Work operations are to be restricted to the prescribed work areas - Spill kits will be kept on site at all times - Sediment controls will be in place before excavation commences - Work along the Lachlan River and Lake Brewster waters edge will be conducted during periods of low flow / low water level - If it is necessary to remove woody debris from work areas it is to be retained in adjacent areas Any fauna injuries are to be notified to WIRES on 1300 094 737
<b>DECLARATION AND SIGN-OFF</b>	
<b>Author Certification</b> - I certify that I have reviewed and endorse the contents of this EIA document and, to the best of my knowledge, it is in accordance with the EP&A Act 1979, the EP&A Regulation 2021 and the Guidelines approved under clause 170 of the EP&A Regulation 2021, and the information it contains is neither false nor misleading.	

This REF has been prepared in accordance with Section 5.5 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Under Part 5 of the EP&A Act, WaterNSW is both the proponent and determining authority for the proposed activity. The State Environmental Planning Policy (Transport & Infrastructure) 2021 allows the proposal to be carried out without development consent. WaterNSW has prepared this REF in accordance with Clause 170 of the Environmental Planning and Assessment Regulation 2021.

On the basis of the assessment and having taken into account to the fullest extent possible all matters likely to affect the environment as a result of the proposed activity, it is concluded that, by adopting the measures identified in the REF, there is unlikely to be a significant environmental impact as a result of undertaking the proposed activity. Accordingly, an Environmental Impact Statement (EIS) is not required.

If the scope of work or work methods described in this report change either prior to or during works, additional Environmental Impact Assessment must be undertaken.

If this Minor Works EIA/REF is to be published in accordance with the NSW DPE *Guidelines for Division 5.1 assessments*, all relevant studies used to prepare the EIA are to be attached to the form & placed on the WaterNSW website prior to the commencement of works.

Approval ARK # ⓘ	D2026/8890
<b>Environmental Adviser Approval</b> Environmental Impact Assessment for Minor Works was approved/endorsed by	<b>Lucy Bourne</b> Digitally signed by Lucy Bourne Date: 2026.02.25 14:05:33 +11'00'