

SECTION 4 ENVIRONMENTAL APPROVAL			
Project Details			
myWaterNSW Request #: RITM	RITM0746948	ARK Minor Works EIA Form #	D2024/124564[v5]
WaterNSW Contact	[REDACTED]	Project Location	Cataract Dam Spillway, Unit 1-5
Project Title	Cataract Dam Spillway Training Wall Contingency Plan - Short term excavation plan		
Approved Activity	<ul style="list-style-type: none"> - relocation of Strong Motion Sensor Seismograph from dam abutment (1) to downstream of dam wall in proposed laydown area (2)(see map below). - install 5 props on each of the panels to provide temporary loading support while excavation occurs behind the training wall. - Excavate from 0 to 1.5m maximum of soil depth behind unit 1, 2, 3, 4 and 5 of the dam spillway training wall. Using small size excavator. - Remove the both concrete barriers (include temporary excavation and temporary backfilling locally around the concrete barrier on site). This uses saw cutting methods. The temporary excavation around the concrete barriers will be refill by new backfill materials. - Provide road layers usable for fire trail strategies (putting aggregate/gravel layers, road base layers, install drainages, waterproofing membrane). - Provide drainage to drain the water to existing surface drains on site. - Compact the road by non-vibration methods. - Stockpiling of new and used materials on the left abutment of the dam. - Dispose of waste materials. - Provide safety signage and barriers. - Temporary Portable Jersey barriers for new road. 		
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 - feedback@waternsw.com.au or 1300 662 077.		
G3	All environment incidents shall be addressed in accordance with WaterNSW's Environmental Incident Management Procedure CD2016/6* .		
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 CD2015/210* 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 CD2012/184* - 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			

C1	A Community Engagement Plan, or equivalent, shall be prepared to the satisfaction of the Water NSW Communications Team before work commences.
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.
Traffic and Utilities	
T2	Care shall be taken to ensure no disturbance of underground infrastructure (optic fibre cables, gaslines, water lines etc), or infrastructure (powerlines, sealed road pavement etc).
T4	Vehicles and machinery shall use existing tracks wherever possible, avoid making new tracks and be kept out of swamps, wetlands and drainage lines.
Special and Contolled Areas	
SP1	All activities or work undertaken in Water NSW Special / Controlled Areas shall be carried out in a manner that will prevent or minimise impacts on water quality, environmental damage and fire.
SP2	Standard access requirements of Water NSW catchment lands shall be observed. This includes restricted access to the catchment after periods of significant rainfall (typically 10mm in a 24 hour period).
SP3	All gates and barriers shall be closed and locked at all times to prevent unauthorised access to the Special/Controlled Area
SP4	Any suspected unauthorised access to the area shall be reported to the Water NSW supervisor and report in RACS system.
SP5	All incidents, spills or fire sightings that occur in the WaterNSW Special / Controlled Area shall be immediately reported to the Water supervisor/Project Manager and reported in RACS system.
SP6	Works shall not be undertaken and vehicles shall not travel on unsealed roads in the Water NSW Special / Controlled Areas when road surfaces are saturated, water is flowing down table drains or the catchment has been closed by Water NSW.
SP7	Portable fuel trailers shall be taken off catchment at the end of each working week.
SP8	Any imported fill material shall be restricted to 'Virgin excavated natural material' (eg clay, gravel, sand soil and rock) that is not mixed with any other waste. Coal waste materials shall not be used in the construction or maintenance of trails.
SP9	New gravel or borrow pits shall not be established within the Special Areas.
SP10	In the event Water NSW fire roads are damaged as a result of the works, they shall be repaired as soon as practicable.
SP11	All equipment transported to the site shall be thoroughly washed down, including underneath tractors and slashers, to remove mud, dirt and vegetative materials, prior to entering the Water NSW Special / Controlled Areas.
Soil and Water	
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"> 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).
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"> 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)
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"> o at least 40m from natural or built drainage lines or wetland; o on areas previously disturbed and that do not require the clearing of native vegetation; o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H); o beyond tree drip lines; o where there is no risk of impact on any indigenous or non-indigenous heritage site.
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.
Flora and Fauna	
FF1	Vegetation disturbance or clearing shall be minimised to the greatest degree practical and only in accordance with EIA approval.
FF7	All equipment transported to the site shall be free of contaminants such as weeds.
Pest and Weed Control	
P1	Control of weeds shall be undertaken by using appropriate government and industry accepted control methods. Removal of weeds from the site shall be properly disposed of at an appropriately licensed waste facility.
P5	All vehicles, vessels and equipment transported to the site shall be free of contaminants such as weeds. Care shall also be taken to ensure all vehicles, vessels and equipment are free of aquatic weeds and their seeds before leaving the site.
Air Quality	
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.
AQ4	Hazardous material shall be handled as per relevant guidelines to avoid potential air pollution.
Noise and Vibration	
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.
Heritage	
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.
Waste	
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.
Site Decommissioning and Restoration	
D1	On completion of the works and prior to leaving the site: <ul style="list-style-type: none"> - all vehicles, construction equipment, materials, waste and excess spoil relating to the works shall be removed from the work site and any adjacent affected areas - all disturbed areas shall be restored with a minimum of 80% cover before removal of temporary control measures - any property or infrastructure that has been damaged as a result of the works shall be repaired, replaced or restored in consultation with Water NSW
Fencing	

F1	Fencing work should not be carried out from within a road reserve, but from inside the property boundary.
PROJECT SPECIFIC SAFEGUARDS	
STAKEHOLDER REQUIREMENTS	
SR1	Road users of the dam wall and other impacted roads are to be consulted as per the Communications Plan.
SR2	Any demolition or excavation works that is within close proximity of heritage as marked on the plans should be carried out with care. The heritage stonewall footings are not to be undermined by the construction work. A qualified structural engineer to assess adequate protection measures to prevent damage. If the heritage stonewall is exposed under any circumstances, construction activities must be stopped, an archaeologist brought to site by WaterNSW to undertake an assessment and the wall not removed. Geotextile or equivalent should be used to protect the heritage stonewall during installation of temporary backfill. The heritage components of the dam that abut the road must be protected during the removal of the road barrier, during excavation and road construction.
SR9	Any large pieces of dead wood, that could provided habitat for native fauna species located, within the project area must be collected and placed within adjacent native areas.
DECLARATION AND SIGN-OFF	
Author Certification - 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 <i>EP&A Act 1979</i> , the <i>EP&A Regulation 2021</i> and the <i>Guidelines approved under clause 170 of the EP&A Regulation 2021</i> , and the information it contains is neither false nor misleading.	
The proposed project/works described within this document are classified as 'exempt development' in accordance with the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) and the <i>State Environmental Planning Policy (Transport & Infrastructure) 2021</i> . WaterNSW is satisfied that the proposed project/works: <ul style="list-style-type: none"> • will have no more than a minimal impact on the environment, • will not significantly impact critical habitat of an endangered species, population or ecological community, or a wilderness area, • satisfy the requirements of clause 20 of the <i>State Environmental Planning Policy (Transport & Infrastructure) 2021</i>; and • do not involve the removal of asbestos unless that removal is undertaken in accordance with <i>Working with Asbestos: Guide 2008</i> published by the WorkCover Authority. <p>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.</p> <p>If this Minor Works EIA/REF is to be published in accordance with the NSW DPE <i>Guidelines for Division 5.1 assessments</i>, 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.</p>	
Approval ARK # ⓘ	D2024/124564[v6]
Environmental Adviser Approval Environmental Impact Assessment for Minor Works was approved/endorsed by	