

Note:

- 1. Contractor must map work on the 2018-19 Collector app maps. Contact Invasive Plants Coordinator (m Sch 2.2(a)(ii)) to set these up, including off-line/on-device versions.**
- 2. Attach Safe Work Method Statement (SWMS) and Site Induction Checklist to this contract**



ACT
Government



**PROJECT BRIEF AND CONTRACT
FOR
WEED CONTROL**

(For use with the Prequal. Weeds Panel)

Reserve or Area Name: Murrumbidgee River Corridor
Contract number (2019-20 IPOP id): MRC31 willows \$10,000

Contractor name: Willow and Environmental Management - Lang

2018-19

ACT Parks & Conservation Service

PROJECT BRIEF AND CONTRACT PREPARED BY:

Bernadette Brown

Project Manager: Darren Roso

Date: 14 January 2020

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STANDARD TERMS & CONDITIONS

PROJECT BRIEF AND CONTRACT

WEED CONTROL

2019-20

1. INTRODUCTION

This Project Brief and Contract provides instructions to a Pre-qualified Weed Control Contractor for the control of weeds within areas of land that is managed by ACT Parks & Conservation Service (PCS). This Project Brief will form the contract arrangement.

2. PURPOSE AND OBJECTIVES OF THE PROJECT

The objective of the project is to control weeds on ACT Government managed land at locations as described and in accordance with the ArcGIS On-line map of the project area.

It is intended that this project will provide effective control of weeds with the aim of:

- Reducing infestations of a significant weed species within the block
- Increase the biodiversity of the area.
- Improving the aesthetic appearance of the area.

3. SCOPE OF WORKS

- Poisoning of, or mechanical removal of weeds in accordance with the attached prescription summary. This work should commence as soon as possible in the contract period.
- A map of the work site is on ArcGIS On-line.
- The Contractor will provide weed control services and equipment as described in the relevant Pre-qualification Application.

4. DELIVERABLES

The successful Contractor(s) will need to:

- Use the prescribed control techniques using herbicides or non-toxic techniques as prescribed section 19.
- Conduct work so as to minimise risk and inconvenience to operational staff, members of the public and adjoining landholders.
- Undertake control methods so as to maximise benefit to the environment and minimise damage.
- Complete a record sheet indicating the details of the daily use of any pesticide and hours worked.
- Map treated areas in the field with the Collector app, then sync to update ArcGIS On-line. Streaming mapping option is preferred.
-

- Provide invoices in a timely manner as described in Section 7 of the Project Brief.

5. SERVICE ORDER PRICE

- a) Price (including GST) is the most recent Weed Control Services rate provided to ACT Procurement.

The contractor may at any time be expected to provide the Project Manager with an up to date estimate of the expenditure that has occurred against the project on which they are currently engaged.

The Price is conditional on the contractor providing the services listed in Section 4.

Contractors should either: supply a herbicide cost invoice with their project invoices or supply a list of prices for herbicide and related chemicals to the PCS Invasive Plants Coordinator. This list can be updated as costs change. This will allow the contractor to take into account the cost of transport, delivery and storage compliance in their herbicide prices list.

- b) The price of Services includes:

- i) all taxes, duties and other imposts for which the Supplier is liable;
- ii) all amounts payable for the use of patents, copyright, registered designs, royalties, trade marks and other intellectual property rights.
- iii) Work undertaken on an hourly rate basis will be subject to the terms and conditions of ACT Government pre-qualification.

6. TERMINATION OF CONTRACTOR

- a) The Territory may, by written notice, terminate or vary the work or any part of the work and upon such notice being given the Contractor(s) shall cease or reduce work according to the tenor of the notice and shall immediately do everything possible to mitigate consequential losses.
- b) In that event the Contractor(s) may submit a claim for compensation and the Territory shall pay to the Contractor(s) such sums as are fair and reasonable in respect of any loss sustained by the Contractor(s) in unavoidable consequence provided that:
- i) The Contractor(s) shall not be entitled to compensation for loss of prospective profits; and
 - ii) The Territory shall not be liable to pay any sum which, in addition to any amounts paid or due or becoming due to the Contractor(s) under the Contract, would together exceed the full price of the contract service ordinarily under the Contract.

- c) The Territory reserves the right to cancel this Contract in whole or in part if:
 - i) work is not carried out by the due date specified in this contract; or
 - ii) if the Supplier is in breach of any other term or condition of the Contract; or
 - iii) if the Supplier becomes insolvent or any formal action is taken against the Supplier in respect of insolvency, or
 - iv) fails to maintain pre-qualification status.

7. TERMS OF PAYMENT

- a) Original invoices (required by Shared Services) must be hand delivered or posted to the Project Manager's depot. Deliver to or mark for the attention of the Project Manager.
- b) Payment will be made to the Contractor(s) after the work has been completed to the satisfaction of the Project Manager.
(payments have to align with the pre-approved purchase order value)
- c) Invoices for payment shall be taken to be correctly rendered if:
 - i) Invoice(s) are correctly calculated in accordance with the Contract;
 - ii) The amount claimed in the invoice is due for payment;
 - iii) No invoice shall be submitted or accepted in respect of any Services which have been rejected or not supplied.
- d) Payment terms are up to 30 days. Payment is only made on original invoices. Electronic delivery and electronic payment is no longer accepted by Shared Services. Arrangements at a) and b) will assist with prompt payment.
- e) No payment will be made against an invoice until park entrance keys, two-way radios and other equipment on loan from PCS are returned.
- f) Lunch breaks and travel time costs cannot be claimed in the invoice.
- g) Payment is for weed control services including time spent mapping completed work with the Collector app in the field.
- h) If contractor evaluation scores are 1- unsatisfactory, for thorough control of target species and/or minimising off-target damage, then 25% of the payment can be withheld. The contractor will be asked to re-submit their invoice for payment of only 75% of the project cost.
- i) If a price list for herbicides and chemicals has not been provided to the PCS Invasive Plants Coordinator, then herbicide costs will be priced on the invoices at the purchase price and proof of purchase must be provided.
- j) Without limiting the generality of the foregoing, if an invoice is found to have been incorrectly rendered after payment, any underpayment or overpayment shall be recoverable by or from the Contractor, as the case may be, and without limiting recourse

to other available means, may be off-set against any amount subsequently due by the Territory to the Contractor.

8. ROADSIDE SAFETY

Where necessary, a Traffic Control Plan (TCP) approved by the NSW Department of Roads and Maritime Services must be used. (ACT Roads policy is to use the NSW TCPs.) Contractors undertaking roadside work must have received appropriate training in relation to TCPs, for example: Red Card - Select & Modify Traffic Control Plans, Yellow Card - Apply Traffic Control Plans, and Blue Card - Traffic Control Using a Stop/Slow Bat.

9. SIGNAGE

In the event that weed control is being undertaken within a project site where environmental sensitivity or public access is an issue, additional signage will be erected by the Project Manager. (see Other Conditions Relating Specifically to this Project).

During any work on this contract, spray vehicles should have signs to warn that weed control work is taking place. An orange flashing light must also be placed on the roof of the vehicle. Wording on the signage on both the front and rear of the vehicle should be indicated in 100 mm letters as below.

Vehicle signage to state (or equivalent words):



10. OFF-TARGET DAMAGE & WIND SPEED

Extreme caution should be exercised by the contractor in relation to damage of non-target species particularly Eucalypts, Native Raspberry, native shrubs and groundcovers, cultural plantings, vineyards and orchards.

The risk of herbicide drift is naturally increased when wind speeds exceed accepted levels, but also avoid spraying under still (stable) conditions). Ideal wind speed for spraying is 7 to 10km/h. If using low drift nozzles or high volume application, then wind speeds of 11 to 14 km/h are suitable as well.

A MANDATORY REQUIREMENT EXISTS WHEREBY A MINIMUM 600 MM LANCE MUST BE FITTED TO SPRAY GUNS FOR THE CONTROL OF ALL INVASIVE GRASS. TALLER OPERATORS WILL NEED A LONGER LANCE TO MINIMISE OFF-TARGET DAMAGE WHEN SPRAYING SEEDLINGS OR YOUNG PLANTS.

Caution should also be exercised when spraying is being undertaken in locations where weather inversion conditions are evident i.e. extremely still, cool conditions, fog, low cloud/smoke. In general, a common sense approach to the issue of wind conditions and potential drift of herbicide must be observed by the contractor at all times.

Spraying in extremely hot and low humidity conditions is covered in the FIRE DANGER AND EXTREME WEATHER CONDITIONS section of the project brief.

Do not spray within 3 metres of waterways, creek-lines, swamps or dams unless specified in the project brief. Spray in a direction away from these areas. The exception to this condition will be cases where Roundup Bioactive (or equivalent) is used or an off-label permit allows the control certain weeds in close proximity to water.

11. OFF LABEL PERMITS

In instances where the contractor is required to undertake application of chemicals in accordance with an “off label” permit authorised by the APVMA, a copy of the permit will be issued to the contractor by PCS.

12. BLACKBERRY CONTROL AND SIGNAGE

Appropriate signage must be erected to indicate that herbicide has been applied to the Blackberry, even when not in fruit. Some herbicides should not be used when Blackberry has mature fruit. Metsulfuron-methyl and glyphosate should not be applied to Blackberry when fruit is mature.

13. AERIAL SPRAYING AND OTHER CONDITIONS

AERIAL SPRAYING CONDITIONS

Notification

Before the operation commences PCS will place an advertisement in The Canberra Times and notify the appropriate people on the ACT’s Chemically Sensitive Persons Register of the expected program commencement and completion dates.

PCS will notify all relevant adjacent landholders and water catchment authorities prior to commencement.

The Environment Protection Authority will be advised of the Operation and approval will be gained 2 weeks before commencing application of herbicide.

Chemical Loading and Mixing

PCS and the Contractor will agree to suitable helipad sites prior to application commencement.

All mixing of chemical is to be done in accordance with the label recommendations. Water used in mixes is to be free from objects such as mud, rust, leaf litter etc.

Disposal of herbicide bags/cartons is the responsibility of the Contractor.

Containment of Chemicals to Target

Ensure, at all times, that there is no risk of herbicide moving outside the target area.

During application and while the helicopter is carrying herbicide, the pilot shall only fly over land managed by PCS

Aircraft Requirements

All equipment installed in or on the aircraft must have Civil Aviation approval.

The helicopter shall be fitted with an onboard device to monitor wind direction, inversion layers and turbulence levels.

The pilots shall ensure that helicopter’s guidance system is capable of accurately obtaining correct placement of swaths.

Application Equipment

The aircraft will be equipped with an on-board computer to monitor application rates and give precise in-flight management of the application system.

The application system must have precise cut-off systems and no-drip nozzles.

The aircraft must be fitted with a system capable of maintaining a specific droplet size, pressure and flow rate dependant on the particular application requirements and chemical mixes.

The application system must have a positive suck-back mechanism.

The helicopter and application system must be fully cleaned and decontaminated before arrival of the helicopter at the operation site.

Decontamination agents must be matched with the chemicals used to ensure elimination of residue.

Any washing down of equipment is only to occur in designated areas determined by the Supervising Officer.

Equipment Calibration

All equipment used for application of chemicals must be calibrated prior to the commencement of work and at regular intervals to ensure uniform and accurate distribution of the chemical over the target area.

Calibration technique and results must be made available to the Supervising Officer if requested.

The Contractor must ensure that any forest areas used for calibration are approved through the Supervising Officer prior to commencement.

Regular checks of chemical usage against hectares treated must be made to ensure that the application system is functioning correctly.

Flying Height and Swath Width

Both swath width and airspeed are to be determined by the Contractor for each operation site and shall be set to maximise operational efficiency and to maintain safety standards.

Application runs will be flown at the lowest height above the ground that safety and accurate placement of the herbicide permits.

Weather Conditions

A weather station is set up and monitored within the spray area where indicative meteorological conditions will be recorded.

Operations will only occur when appropriate weather conditions prevail. The Supervising Officer is responsible for regularly monitoring on-ground weather conditions. The pilot must inform the Supervising Officer of any difference in above-ground wind speed and direction.

Wind direction must be blowing away from susceptible non target areas, with constant speed or direction. Application is not to proceed in calm conditions or when wind is variable or gusty.

Optimal conditions for Aerial Herbicide application:

Weather	Liquid herbicide
Maximum wind speed	13 km/h
Minimum wind speed	3 km/h
Maximum wind gust above mean wind speed	5 km/h
Atmospheric Stability	No temperature inversion and preferably overcast.
Cold Air drainage	Not likely during or following spraying
Rainfall	No rain during or within 6 hours of the conclusion of the operation
Air Temperature	Below 25degC
Relative Humidity	40-80%
Soil Moisture	Not significantly below field capacity (dry) or fully saturated
Scheduling	Areas sprayed must not be disturbed for at least 4 weeks after spraying to ensure efficacy of herbicide uptake. Longer for some herbicides - up to 9 months. Always read the label.

OTHER CONDITIONS

- (i) Water supply points will be agreed upon prior to the commencement of works.
- (ii) Chemcert or equivalent accreditation for all employees must be carried in the vehicle engaged in undertaking the works described in the Project Brief and Contract.
- (iii) The risk assessment, safe work method statement and site induction check list must be acknowledged and signed by the contractor.
- (iv) A copy of the contract must be carried in the vehicle associated with the weed control work.
- (v) If site conditions change and this alters risk then the contractor will re-assess and report to project manager.
- (vi) No dogs or other pets are allowed on the job site.
- (vii) This document must be signed by both parties prior to the commencement of any works.
- (viii) The signed original of this document is to be retained by the Agency Project/Contract Manager.
- (ix) The signed copy of this document is to be retained by the Contractor.

14. FIRE DANGER AND EXTREME WEATHER CONDITIONS

On days declared as **Total Fire Bans** or on days of **extreme or catastrophic fire danger** in the ACT, access to the project site may be limited or denied. Works may only be undertaken at the discretion of the project manager/s. These declarations are generally announced the day prior and are broadcast on local radio and television news and weather. The Project Manager will endeavour to advise contractors of these declarations.

The declaration of extreme fire weather conditions will also act as a trigger for both the Project Manager and the Contractor/s that weather conditions may be inappropriate for spray operations to be undertaken at times of the day when temperature and humidity are at extreme levels.

Subsequently, there may be a requirement for spray application to be undertaken during appropriate climatic windows of opportunity during the day (i.e. early in the morning or late in

the evening). Any spraying undertaken during periods of extremely high temperature and low humidity may render the application of chemicals ineffectual. There is a requirement for the Project Manager and the Contractor(s) to liaise closely whilst ever weather conditions are at such extremes. Check the Delta-T level is within the 2 to 10 range for boom spraying. For spot spraying with a coarse droplet, the maximum Delta-T is 12. Measure the Delta-T locally using a hand-held device – as Canberra Airport often has relatively higher Delta-T levels.

The Contractor must exercise extreme caution on all days particularly in relation to the operation of engines, pumps and refuelling operations.

15. SITE ACCESS

Vehicular access to the project site is restricted to authorised vehicles only. The Project Manager will provide an access key and the Contractor/s will be responsible for the safe keeping of this key, and will be responsible for ensuring that gates are locked at all times.

16. SPECIAL CONDITIONS REGARDING WATER CATCHMENTS

Herbicide Options for Blackberry and Woody Weed Control in Water Catchments

Area/Heading	glyphosate (safe aquatic form)	metsulfuron-methyl	triclopyr, picloram & aminopyralid	Comments
Drinking Water Guidelines Guideline Value	0.01 mg/L	n/a	n/a	
Drinking Water Guidelines Health Values	1 mg/L	0.03 mg/L	picloram (0.3 mg/L) triclopyr (0.01 mg/L) aminopyralid (not listed)	
Over potable water	Permitted	Not permitted	Not permitted	
Over non-potable water	Permitted	Permitted under off-label permit PER14522	Not permitted	The off-label permit does not allow a surfactant to be used over water.
Drainage areas prone to flooding	Not advisable as it is not selective. It kills mono-cots (e.g. native grasses)	Permitted	Not permitted	
Upslope areas	Not advisable as it is not selective. It kills mono-cots (e.g. native grasses)	Permitted but no closer than 5m to a waterway if a surfactant has been added. Does not kill mono-cots.	Permitted but no closer than 5m to a waterway. Does not kill mono-cots.	If a poor result has been achieved with metsulfuron-methyl then a herbicide containing triclopyr, picloram & aminopyralid should be used. Note it is not advisable to spray the area again with metsulfuron-methyl as this may create a metsulfuron-methyl resistant population of Blackberry.

17. RISK ASSESSMENT

HIGH, MEDIUM and LOW risk ratings are an assessment based on 'Likelihood' and 'Consequence'. High risks will require more careful consideration of risk control actions.

RISK RATING TABLE

Consequence	Minor	Moderate	Major	Catastrophic
Likelihood				
Almost never	Low	Low	Medium	Medium
Unlikely	Low	Low	Medium	Medium

ELEMENT	Yes	N/A	No	Risk rating before controls – describe the risk in the adjacent column			Describe the risk, the controls & who will implement the controls	Risk rating after the controls
				High	Med	Low		
7. Is there an agreed protocol for reporting on safety issues associated with the works?	X					X	Significant safety issues must be reported by the contractor to the contract supervisor.	Low
8. Has the PPE requirements for these works been specified?	X				X		When spraying herbicide the Contractor must ensure that: Minimum PPE is water resistant boots and gloves, and disposable or washable overalls. Best gloves are Nitrile, PVC or Neoprene. Leather gloves can be used but must be washed or disposed of when they become contaminated. If there is spray mist/vapour that reaches the face then eye protection, a hat and a disposable respirator or half face/mask respirator designed for agricultural spray mists must also be used. For use of chainsaws the Contractor must ensure that the operator is wearing chainsaw chaps, a chainsaw hard hat, eye & hearing protection. Otherwise the consequences of an accident could be catastrophic.	Low
9. Have controls been put in place when tree-felling is required? (Remember LACES – Lookouts, Awareness, Communications, Escape Routes and Safety Zones.)	X			X			For cut/paint jobs, the contractor should ensure that: no one should be closer than two tree lengths from the tree being felled. Then a cut through the stump, close to the ground, can be made so the herbicide can be applied by another worker. The worker must wait for the tree feller's signal that it is safe to approach and apply the herbicide. Note before felling any trees, the site should be assessed by the contractor for safety concerns, such as dangerous trees. The contractor must ensure that chainsaw operators have a current chainsaw qualification – appropriate for the size and type of trees being felled.	Medium
	X			X				Medium
	X			X				Medium

ELEMENT	Yes	N/A	No	Risk rating before controls – describe the risk in the adjacent column			Describe the risk, the controls & who will implement the controls	Risk rating after the controls
				High	Med	Low		
10. Is there a requirement for a first aid kit to be kept at the work site	X			X			Contractors working near waterways will encounter venomous snakes – so it is essential that they carry crepe bandages to apply a pressure immobilisation bandage treatment for snake bite, and read the snake first aid advice below:	Medium
<div style="border: 2px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <p style="text-align: center;"><u>First Aid for Australian Snake Bite</u></p> <ol style="list-style-type: none"> 1. Ensure that patient (& other people) are no longer at risk 2. Reassure patient. Encourage to lie down & keep still <ol style="list-style-type: none"> a. It is <i>critical</i> that bitten part & patient do not move 3. First aid MUST be started <i>immediately</i> <ol style="list-style-type: none"> a. Do not ignore a trivial bite, especially if suspected to be from a Brown Snake 4. Contact Ambulance emergency number – 000 (unless in outback areas) <ol style="list-style-type: none"> a. Follow professional advice regarding transport of patient 5. Monitor airway, breathing & circulation & support as necessary 6. Do not interfere with bite in any way – do not wipe or wash skin, do not apply tourniquet, chemicals or suction devices 7. Remove all jewellery from bitten limb 8. Keep limb still until bandage & splint applied 9. Apply crepe bandage with even pressure <ol style="list-style-type: none"> a. Start at extremity & work up arm or leg b. Include fingers or toes to minimise movement c. Be careful not to apply bandage too loosely d. Use same pressure as to bandage a sprained wrist or ankle e. Mark location of bite on bandage (for venom detection in hospital) 10. Bandage over clothing or cut up seam to allow access to skin 11. Patient <i>must</i> remain still. Bring transport to patient if possible 12. Immobilise limb with splint or improvise as necessary <ol style="list-style-type: none"> a. Ensure that joints (of arm or leg) are effectively immobilised b. Use second bandage to keep splint in place 13. No food or drink except sips of water (only on victim's request) 14. Patient must be transported <i>quickly & passively</i> to hospital (preferably by ambulance) 15. Where possible, let paramedics be in total charge of extrication planning. Better to stay quiet & let them arrange transport </div>								
11. Does the contractor have the required insurances to undertake these lists (public liability, workers compensation, professional indemnity, comprehensive insurance for all plant and vehicles)?	X				X		To be a pre-qualified contractor these documents have been provided to ACT Procurement Solutions.	Low
12. Do all staff / contractors have the required competencies, certification or licenses to undertake these works?	X				X		To be a pre-qualified contractor Chemcert, chainsaw training & TTMP roadside training documents have been provided to ACT Procurement Solutions.	Low
13. Contractor informed their staff of project or site risks?	X				X		Contractor will provide a site induction for their staff.	Low
14. Projects above the lower Cotter dam may contaminate waterways with EHN virus.				X			Water sourced from below the Lower Cotter Dam could be contaminated with the EHN virus. EHN virus is a risk to the native fish, particularly the rare Macquarie Perch. This risk can be controlled by only using water for weed spraying sourced from mains water or from above the Lower Cotter Dam.	Low

PROJECT SPECIFIC TERMS & CONDITIONS

18. Project summary

IPOP id number	MRC31
Purchase order number:	151175
Budget name	Invasive Weed Control 53832
Target weed(s):	Continuation of Willow and follow-up work from environmental grant
Reserve name:	Murrumbidgee River Corridor – Tharwa Bridge to Point Hut Crossing
District Depot Name:	Murrumbidgee River Corridor
Primary Contact & mobile number:	Bernadette Brown Sch 2.2(a)(ii) (H) and Sch 2.2(a)(ii) (W)
Secondary Contact & mobile number:	Darren Roso Sch 2.2(a)(ii)
Contractor name:	Willow and Environmental Management Services Pty Ltd
Hrly rate for weed control service:	Drill/Frill/Cut Stump \$190 per hour (2 Operators) \$190 (2 operators) per day \$1,520.00 \$380 (4 operators) per day \$3040.00 \$1,140 (6 operators) per day \$9120.00
Number Days/hours	Spraying 2 operators – 6.5 days or 49 hours 4 operators – 3.2 days or 26 hours 6 operators – 1.3 day or 9.2 hours
Budget total:	\$10,000
Start date contract:	25 /1 /2020
End date contract:	31/1/2020

Mapped on ArcGIS on-line, using Collector app in the field	Yes
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19. PRESCRIPTION SUMMARY

Target Species	Chemical	Control Technique	Rate of Application	Comments
Willow various species and blackberry	NO Dye	Drill/Frill/cut stump	Label rate 1:1	
	Glyphosate 360			DO NOT- spray 6 hours prior and after rain. DO NOT – use Herbicide within 5m of wet drainage areas or Murrumbidgee River as water is potable water

20. Project specific risks in addition to those at section 17.

ELEMENT	Risk rating before controls – describe the risk in the adjacent column	Describe the risk, the controls & who will implement the controls	Risk rating after the controls
<p>Other elements specific to this project:</p> <p>Eg1. If the project is to create a high visual impact in a public area – then a brief must be sent to the Minister requiring approval of the works & communications plans – before work can commence.</p> <p>Eg2. Are there endangered, rare or uncommon native plants in the area of the proposed weed control?</p>			

21. CHECK LIST FOR SPRAY CONTRACTORS VEHICLE AND EQUIPMENT

CONTRACTOR:....Willow & Environmental Management VEHICLE:.....

CABIN	
CHEMCERT OR EQUIVALENT CERTIFICATION FOR EVERY OPERATOR	
MSDS SHEETS	
PRODUCT LABELS	
TRAFFIC CONTROL PLAN	
FIRST AID KIT	
Delta-T KESTREL or WindMate or equivalent	
COPY OF CONTRACT and mapping tools: Collector app, GPS or printed out ArcGIS On-line map	
PERSONAL PROTECTION EQUIPMENT	
OVERALLS	
GLOVES	
EYE PROTECTION	
SOAP & WASHING WATER (EYES, HANDS ETC)	
FLOURESCENT VEST	
FACE MASK / RESPIRATOR	
CHAINSAW SAFETY EQUIPMENT	
HARD HAT	
CHAPS	
EAR & EYE PROTECTION	
SIGNAGE	
FRONT & REAR OF VEHICLE "WARNING – SPRAY OPERATOR – KEEP CLEAR"	
FLASHING LIGHT ON VEHICLE	
TTMP SIGNS	
SIGNAGE ON TANK ADVISING CHEMICAL	
SPRAYING EQUIPMENT (including backpacks):	
600 mm LANCES FITTED TO SPRAY GUNS FOR INVASIVE GRASSES	
LEAKS	
GENERAL CONDITION	
TANK CAPACITY (litres)	
PUMP - condition	
FOAM MARKER FOR BOOMSPRAY EQUIPMENT	
WATER FILLING EQUIPMENT	
ACTEWAGL metered STAND-PIPE with min 25mm delivery hose FILLING HOSE PREVENTS BACK-FLOW	
Adequate air gap maintained (2 X Diameter of Filling Hose)	
PUMP	
<i>FILLING VIA BOTTOM OF TANK MUST NOT BE UNDERTAKEN</i>	
VEHICLE CHEMICAL STORAGE:	
LOCK	
POISION SIGN	
SPILL KIT INCLUDING SHOVEL/SPADE:	
CLEAN VEHICILE (EG. FREE OF MUD):	

Inspected by:.....

Date:.....

22. PROJECT BRIEF/CONTRACT APPROVAL/AUTHORISATION TO EXECUTE WORKS.

Contractor business name	Willow & Environmental Management – Simon Lang
Address	P.O Box 201 Cooma NSW 2630
Telephone	02 6453 3232
Mobile	0409740815

This Project Brief and Contract constitutes a binding contract between the contractor and ACT Parks & Conservation Service for work undertaken on an hourly rate basis.

I/we hereby agree to undertake the works described in this Project Brief and Contract and acknowledge that such works are to be executed in accordance with the terms, conditions and procedures set out in this document and the Pre qualification Application requirements by ACT Procurement and my corresponding certification.

I/we hereby provide a signed **safe work method statement (SWMS), and this is attached to this contract. The SWMS provided by me takes into account risks and controls listed at sections 17 and 20 above.**

I/we hereby acknowledge and sign the attached **site induction checklist.**

Contractor Signature

_____/_____/_____
Date

Contract manager (Signature)
On behalf of the Territory

_____/_____/_____
Date

From: [Sutton, Paula](#)
To: [EPSDD DLO](#)
Cc: [Berrie, Lucinda](#)
Subject: FW: Cuppacumbalong Lombardy Poplars
Date: Thursday, 25 November 2021 10:08:23

Hi Tash

Can I please request a short draft response to this (before the 10 Dec Ministers visit to Cuppacumbalong would be greatly appreciated please if possible – happy for this to be dot points if that helps)? I've let [REDACTED] know that consultation will commence (via Minister Gentleman and YourSay on the Murrumbidgee Corridor River Plan of Management soon so no need to cover this aspect)

Thank you.

Kind regards,

Paula

From: [REDACTED]
Sent: Thursday, 25 November 2021 9:31 AM
To: Sutton, Paula <Paula.Sutton@act.gov.au>
Subject: Cuppacumbalong Lombardy Poplars

This email is to let the Minister and you know about an issue of concern to me as a landscape professional and resident in the Tharwa locality.

I am working with Eric Martin (heritage Architect) on the updating of the Cuppacumbalong Conservation Management Plan (CMP), with assistance from an ACT Heritage grant to the owners.

Some of the historic Lombardy Poplars on public land near Tharwa bridge have been killed (presume poisoned). The original row, were thought to be planted by the De Salis family of Cuppacumbalong circa 1860.

There is no current Murrumbidgee River Corridor Plan of Management, and the former one dated 1997, omitted reference to Cuppacumbalong.

Killing some trees is a concern as their roots are interconnected and the risk to this heritage landscape is significant.

I do not know if this was part of a Govt funded works program and I am not aware that the community was consulted or informed about this work.

Happy to discuss further if you want.

It would be great if you could advise the timing of the new MRC Plan, previous advice was it was to commence in 2021.

Kind regards

[REDACTED]

From: Roso, Darren
Sent: Saturday, 27 November 2021 9:54 AM
To: Cotsell, Peter; Gould, Kristy; Jeffress, Stuart; Swain, Shelley; McElroy, Tom
Cc: Orgill, Oliver; Pegg, Stacey; MRC Cotter Depot; EPSDD Environment; Hekimian, Richard; Jans, Edwina; Watts, Michaela; Taylor, Steve; Holder, Chris; Prince, Brian; Enge, Jessica
Subject: RE: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars
Attachments: 20211113_110814.jpg
Importance: High

UNOFFICIAL

Hey
I look after the area. I expected some enquiries as a extras (~10) were killed by contractors *but it's not their fault*. I should have Supervised much more closely. I briefed Tom and Shelley a month or so ago.

[REDACTED] intent is good but hasn't acted correctly/genuinely, should have just called, she knows who to call to learn about progress of the restoration programs and maybe even helped! Always best to address at field level. I know everyone wonders at times. The Tharwa community is notoriously hard to inform on complex and closely associated issues.

None of these trees are on the Register either Sig trees or Heritage. The intent is for the dead trees to be gone in 2 or 3 years. We can make it happen faster if we need too. It takes me a short day to fall them out of sight.

Points for the response

1. The Objective is to restore the Historic Landscape to the Beautiful 1920s form where the Spectacular Single Row of Lombardy Poplars was visible along with the charming Bridge Circle and associated trees. As intended by the De Salis's and McKeachnie's.
2. Part of the extensive/integrated Landscape Management program which is the MRC. This is the ongoing Poplar *Management* program. It involves: Assessments by Arborists, Pruning, Plantings, thinning and removals. Sometimes mis interpreted. Not exactly routine as it happens every 8-12 years. Last time was Autumn 2010 before that 2003/4 from memory.
3. The dead trees are suckers. Killed to restore the discrete 1890 Landscape/culturally significant row and ensure bank stability.
4. *None* of the actually *Significant trees*, original 1890 and 1895 plantings by the DeSalises\ McKeachnies respectively, *have ever* been touched unless assessed dangerous. About 7 in 30 years
5. About 40 Wilding Poplars of the 200+ have been killed this round. See image.
6. Importantly 40-50 Poplars have been forward *Planted* over the last 30 years and have done well! The last Poplar planted was about 4 weeks ago to infill the 1890 DeSalis Row. And some 25 River gums were Planted by Volunteers Autumn '21, . Some 25,000 trees have been planted in that reach over the last 30 years.
7. None of these trees are on the Register either Sig trees or heritage.
8. [REDACTED] issue is also that there *will be* some transfer of Glyphosate to adjoining trees. It should be stated in the response. That it's known and always taken into account. Another 20 or so trees may be injured but will recover, occasionally some die.
9. Successional Plantings continue. Planting of replacements for the 1895 Tharwa bridge Opening Plantings is in discussion now.
10. The treatment from here: the dead trees are fallen behind their stumps (Parallel to the river bank) where they protect the bank and provide sediment depositional zone and excellent growth area for natives. That normally happens gradually over the next 2-5 years to reduce visual impact and erosion potential.

11. There are 250 River gums arriving in Autumn. About 30 or 40 are destined for this area. To be planted by The Tharwa Volunteer Program.
12. Ongoing program. Monitoring is constant. Next stage thinning due 2030 or there abouts as there has been massive growth over the last decade.

Brian/Trish

We do need to refer to these programs in the new Plan. This one has occasionally caused these enquiries.

Pete

Let me know what else I can do. Sincere apologies for the extra work, make *me* do it. I'd especially like to meet everyone, *on site*, to set the path forward and so *all* feel comfortable/know to contact this office on future issues. Be aware generally this area is a management success story. We started at a very Low level. The area was characterised in 1990 by an angry community, erosion, rabbits and weeds Now it is stable, biodiversity abounds and the community Love it! Though still weedy.

cheers

Darren Roso
Senior Ranger
ACT Parks and Conservation.
Murrumbidgee Depot
1541 Cotter Road ACT 2611
Ph. [REDACTED]
Email : darren.roso@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.

"Nations may battle and the world rocked by revolution, but the Land will care for those who care for it."
(The standing committee on Californian Canals 1930's)

From: MRC Cotter Depot <MRCCotterDepot@act.gov.au>
Sent: Saturday, 27 November 2021 7:41 AM
To: Roso, Darren <Darren.Roso@act.gov.au>
Subject: FW: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

UNOFFICIAL

From: EPSDD Environment <EPSDDEnvironment@act.gov.au>
Sent: Friday, 26 November 2021 12:15 PM
To: Cotsell, Peter <Peter.Cotsell@act.gov.au>; Gould, Kristy <Kristy.Gould@act.gov.au>; Jeffress, Stuart <Stuart.Jeffress@act.gov.au>
Cc: Orgill, Oliver <Oliver.Orgill@act.gov.au>; Pegg, Stacey <Stacey.Pegg@act.gov.au>; MRC Cotter Depot <MRCCotterDepot@act.gov.au>; EPSDD Environment <EPSDDEnvironment@act.gov.au>
Subject: RE: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

Thanks Kristy - I didn't appreciate that this is an MRC matter.

Hi Pete/Stu – noting Tom has his out of office on are you able to advise in relation to Edwina's email below and associated Ministerial?

Kind regards
Bindu

Bindu Johnson (he/him) | Government Business Officer
Environment, Heritage and Water Division

ACT Government

Ph: +61 2 6205 1189 | Email: Bindu.Johnson@act.gov.au or EPSDDEnvironment@act.gov.au

From: Gould, Kristy <Kristy.Gould@act.gov.au>

Sent: Friday, 26 November 2021 11:49 AM

To: EPSDD Environment <EPSDDEnvironment@act.gov.au>; Jans, Edwina <Edwina.Jans@act.gov.au>; Watts, Michaela <Michaela.Watts@act.gov.au>; McElroy, Tom <Tom.McElroy@act.gov.au>

Cc: Hekimian, Richard <Richard.Hekimian@act.gov.au>; Orgill, Oliver <Oliver.Orgill@act.gov.au>; Pegg, Stacey <Stacey.Pegg@act.gov.au>

Subject: RE: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

UNOFFICIAL

Hi Bindu

I am not familiar with the block but if it is one managed by PCS then it will need to go to MRC rather than Urban Reserves. I have included in Tom McElroy (a/g manager MRC).

Thanks
Kristy

From: EPSDD Environment <EPSDDEnvironment@act.gov.au>

Sent: Friday, 26 November 2021 11:29 AM

To: Jans, Edwina <Edwina.Jans@act.gov.au>; EPSDD Environment <EPSDDEnvironment@act.gov.au>; Watts, Michaela <Michaela.Watts@act.gov.au>; Gould, Kristy <Kristy.Gould@act.gov.au>

Cc: Hekimian, Richard <Richard.Hekimian@act.gov.au>; Orgill, Oliver <Oliver.Orgill@act.gov.au>; Pegg, Stacey <Stacey.Pegg@act.gov.au>

Subject: RE: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

Thanks Edwina

Hi Kristy/Michaela – could one of you please consider Edwina’s comments below and advise/comment before I request redirection to TCCS.

Hi Oli – Cc is case you have some corporate knowledge to provide to Kristy/Michaela.

Kind regards
Bindu

Bindu Johnson (he/him) | Government Business Officer
Environment, Heritage and Water Division

ACT Government

Ph: +61 2 6205 1189 | Email: Bindu.Johnson@act.gov.au or EPSDDEnvironment@act.gov.au

From: Jans, Edwina <Edwina.Jans@act.gov.au>

Sent: Friday, 26 November 2021 10:58 AM

To: EPSDD Environment <EPSDDEnvironment@act.gov.au>

Cc: Hekimian, Richard <Richard.Hekimian@act.gov.au>

Subject: RE: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

UNOFFICIAL

Hi Bindu

The query about the poisoning of the poplars and lack of public consultation should be answered by TCCS and/or PCS – as per the below.

Heritage can confirm the following:

The only trees protected are on the Cuppacumbalong and cemetery blocks.

Cuppacumbalong - https://www.environment.act.gov.au/_data/assets/pdf_file/0003/148494/247.pdf

De Salis Cemetery - https://www.environment.act.gov.au/_data/assets/pdf_file/0008/148499/475.pdf

They are not included in the Tharwa Bridge registration either.

If Tharwa as a Precinct had been registered, they would have been included, but it was not. It's likely to be more of an issue for the Tree Unit, but there might be other jurisdictional issues at play with it being in the river corridor.

However:

The northern end is in Block 5 Section 1 a special purpose reserve (Pd)/river corridor (NUZ4), there is about 30m of them that cross over the Palmer Street road reserve (where a new bridge could go in), and the southern end is Block 12, Section 10 (Territory Plan - Land Use Zone: NUZ4: RIVER CORRIDOR; Territory Plan - Overlay Zone: S: Special Requirements apply under N.C.P.; PUBLAN: Public Land; Pd: Special Purpose Reserve)

So, being on Urban Approved blocks makes me think it a Trees Unit issue, but the road reserve and the added river corridor overlay would complicate things. Also there may be an agreement between TCCS and Parks that Parks would look after it (at least that's the case for the small section to the north of the bridge)?

Hope this helps.

Thanks
Edwina

From: EPSDD Environment <EPSDDEnvironment@act.gov.au>

Sent: Thursday, 25 November 2021 1:38 PM

To: Jans, Edwina <Edwina.Jans@act.gov.au>

Cc: EPSDD Environment <EPSDDEnvironment@act.gov.au>

Subject: Advice needed: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] - Cuppacumbalong Lombardy Poplars

Hi Edwina

Noting that Minister Vassarotti's Office has requested EPSDD to respond, I'm not sure who should lead on this one. There are elements that relate to Heritage but the matter of concern is on land that TCCS manages. Grateful for your advice.

Please note, I'm about to send out a separate but related request for an arrangements brief.

FW: Cuppacumbalong Lombardy Poplars



Sutton, Paula
To: EPSDD BLD
Cc: Berrie, Lucinda

Reply Reply All Forward Thu 25/11/2021 10:06 AM

02. For Tash - Action

Hi Tash

Can I please request a short draft response to this (before the 10 Dec Ministers visit to Cuppacumbalong would be greatly appreciated please if possible – happy for this to be dot points if that helps)? I've let [redacted] know that consultation will commence (via Minister Gentleman and YourSay on the Murrumbidgee Corridor River Plan of Management soon so no need to cover this aspect)

Thank you.

Kind regards,
Paula

From: Catherine Keirman <ckelman57@gmail.com>
Sent: Thursday, 25 November 2021 9:31 AM
To: Sutton, Paula <Paula.Sutton@act.gov.au>
Subject: Cuppacumbalong Lombardy Poplars

This email is to let the Minister and you know about an issue of concern to me as a landscape professional and resident in the Tharwa locality.

I am working with Eric Martin (heritage Architect) on the updating of the Cuppacumbalong Conservation Management Plan (CMP), with assistance from an ACT Heritage grant to the owners. Some of the historic Lombardy Poplars on public land near Tharwa bridge have been killed (presume poisoned). The original row, were thought to be planted by the De Salis family of Cuppacumbalong circa 1860. There is no current Murrumbidgee River Corridor Plan of Management, and the former one dated 1997, omitted reference to Cuppacumbalong.

Killing some trees is a concern as their roots are interconnected and the risk to this heritage landscape is significant. I do not know if this was part of a Govt funded works program and I am not aware that the community was consulted or informed about this work.

Happy to discuss further if you want.

It would be great if you could advise the timing of the new MRC Plan, previous advice was it was to commence in 2021.



Happy to discuss if easier.

Kind regards
Bindu

Bindu Johnson (he/him) | Government Business Officer
Environment, Heritage and Water Division
ACT Government
Ph: +61 2 6205 1189 | Email: Bindu.Johnson@act.gov.au or EPSDDEnvironment@act.gov.au

From: EPSD Government Services <EPSDGovernmentServices@act.gov.au>
Sent: Thursday, 25 November 2021 12:51 PM
To: EPSDD Environment <EPSDDEnvironment@act.gov.au>
Cc: Walker, IanS <IanS.Walker@act.gov.au>
Subject: FOR ACTION: Due to GS 1/12 - 21/119759 Ministerial-Correspondence - Vassarotti - [redacted] - Cuppacumbalong Lombardy Poplars

Ministerial Correspondence / Brief Request Form
21/119759 Ministerial-Correspondence - Vassarotti - [REDACTED] -
Cuppacumbalong Lombardy Poplars

	Due
To Minister's office	06/12/2021
Director-General	
Deputy Director-General	02/12/2021
Government Services	01/12/2021

To:

Climate Change and Energy	Development and Implementation	Office of the Director-General	Corporate Services & Operations
Planning and Urban Policy	Statutory Planning	Office of the Deputy Director-General	City Renewal Authority
Building Reform	Environment, Heritage and Water	Utilities Technical Regulator	Suburban Land Agency

Response By:

Minister Chief Minister	Director-General Directorate	Deputy Director-General
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Action Required:

Reply to Correspondence	Directorate Input	Questions and Answers
Information Brief	Officer to attend***	Media Alert / Media Release**
Meeting Brief*	For Information Only	Speech**
Caveat Brief	For Appropriate Action	Speaking Notes**
Arrangements Brief*	Phone Constituent/ Provide Report	Talking Points (as dot points)**

**For up to date meeting/event timing, please see the calendar confirmation email in the attached Objective File.*

*** In consultation with EPSDD Media.*

****Exec will advise you who is required to attend.*

Further Information:

Aimie Burns | Ministerial Liaison Officer – Government Services
 Environment, Planning and Sustainable Development Directorate
 ACT Government | PH: 6207 2156 | www.environment.act.gov.au





Rebecca Vassarotti MLA

Minister for the Environment

Minister for Heritage

Minister for Homelessness and Housing Services

Minister for Sustainable Building and Construction

Member for Kurrajong

21/119759

Dear [REDACTED]

Thank you for your email of 25 November 2021 about Cuppacumbalong Lombardy poplars.

The Lombardy poplars, on the Murrumbidgee River immediately south of Tharwa Bridge, were treated as part of an annual Parks and Conservation Service (PCS) invasive weed control program. These poplars are self-propagated and do not comprise part of the original plantings of the area.

The row of Lombardy poplars, south of Tharwa Bridge and beyond Cuppacumbalong, and those that stand in the Tharwa Bridge recreation area, are not considered to be a heritage asset as the Heritage Council decided not to register the Tharwa Village Precinct in 2017; instead they are maintained under a tree management program that is delivered by the ACT PCS across the Murrumbidgee, Cotter and Paddy's River recreation reserves.

The program targets public safety, health and longevity of standing trees, and succession planting, and is informed by qualified arborists. Consideration of cultural, historic, and aesthetic values is included in any tree management decision.

The Lombardy poplar is a declared weed in the ACT and management of the species is particularly important along riverbanks where it grows favourably. The removal of several self-propagated poplars near Tharwa Bridge supports the upcoming planting of native River Red Gum eucalypts for riverbank stabilisation and species diversity at this site. As well as the original Lombardy Poplar plantings, numerous self-propagated poplars will remain to preserve historic amenity of the area.

ACT Legislative Assembly London Circuit, GPO Box 1020, Canberra ACT 2601

+61 2 6207 8975

vassarotti@act.gov.au

@RebeccaVassarot

RebeccaVassarottiACT

If you wish to meet with my officials on site, please contact Ms Shelley Swain, the Ranger in Charge at the Murrumbidgee River Corridor office, on 02 6207 1808.

Thank you for raising this matter with me. I hope this information is of assistance.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'R. Vassarotti', with a stylized flourish at the end.










Rebecca Vassarotti MLA

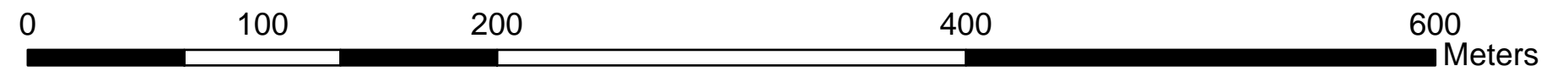
8/12/2021

Lombardy Poplar Weed Management 2022

Tharwa Bridge recreational area



	Lombardy Poplar treatment area		Light Unit
	Woody debris mulching area		Walking Track
	Articulated Float		Dormant
	Rigid Float		Undetermined
	Tanker		



Eucalyptus camaldulensis planting program – MRC (Tharwa) – April 2022

Background

From March-May 2022, a total of 276 advanced *Eucalyptus camaldulensis* (River Red Gum) were planted along the banks of the Murrumbidgee River. Most trees were planted within 1km upstream and downstream of Tharwa Bridge, with a small number of plants used elsewhere in the river corridor to improve species diversity.

E. camaldulensis was chosen as an additional native species to the planting 'suite' which has been used along the river historically. Beyond enhancing local biodiversity, *E. camaldulensis* increases the resilience of the landscape to future fire events given its capacity to resprout from both the seedbank and its lignotuber following an intense burn. The species is also more tolerant to drought than alternative eucalypt species such as *E. viminalis* and can be planted close to the edge of the river to control soil erosion without suffering negative impacts from root inundation.

Primary planting locations

Site One: Tharwa Bridge

Advanced *E. camaldulensis* (200mm pots) were planted along the left bank of the Murrumbidgee River adjacent to Tharwa. As per the map at **Attachment A**, plants were emplaced in several transects based on the topography of the riverbank and the presence of existing mature vegetation. Preference was given to sections where trees could be planted within five metres of the water and where no mature native trees or shrubs were present.

Due to a combination of ongoing flood conditions limiting safe access, as well as successful establishment of historical *Casuariana cunninghamiana* and *E. viminalis* plantings on river right, this April 2022 program was restricted to river left.

Site Two: Scouts Rock

A further 30 Advanced *E. camaldulensis* were planted on river right at two sites along the Murrumbidgee Discovery Trail (map at **Attachment B** refers). The closest identifiable landmark to the southern-most site is Scouts Rocks. As per plantings at Tharwa bridge, sites were chosen to eliminate gaps in mature native vegetation and prevent future bank erosion.

Additional Plantings

Limited numbers of additional opportunistic plantings, not otherwise mapped in the attachments to this report, were also made to control erosion at the following locations:

- Pine Island Central (1 tree)
- Gudgenby River and Murrumbidgee River confluence (15 trees)






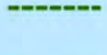


Future Works

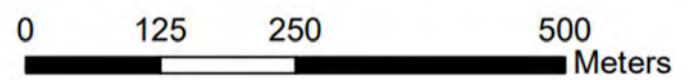
Access to an approximately 100m long section of river left - upstream of the Tharwa Bridge - was complicated by several large Lombardi Poplars which have been poisoned but are yet to be felled. It is proposed that another cohort of *E. camaldulensis* be planted to infill this gap once the associated poplars have been cut down.

Additionally, further plantings of *E. camaldulensis* on river right (downstream of Tharwa Bridge) would be beneficial when drier conditions allow for safe access. This would assist in preventing future erosion and improving the diversity of habitat available to native wildlife.

E. camaldulensis planting - Tharwa Bridge 2022



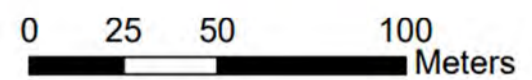
	E camaldulensis planting sites		Light Unit
	Articulated Float		Walking Track
	Rigid Float		Dormant
	Tanker		Undetermined



E. camaldulensis planting - Scouts Rock MRC 2022



	E camaldulensis planting sites		Light Unit
	Articulated Float		Walking Track
	Rigid Float		Dormant
	Tanker		Undetermined



Culturally sensitive removal of invasive Poplars near Tharwa Bridge

Culturally sensitive environmental remediation program

- Over the past few decades, the original windrow of Lombardy Poplars planted in the 1870's has spread laterally downslope to the margin of the Murrumbidgee. This encroachment is evident in the photo series at **Attachment A**.
- To date, efforts to reduce the number of invasive trees along the Murrumbidgee, including poplars, elms and willows have primarily focused on higher conservation areas upstream within and adjacent to Gigerline Nature Reserve.
- Some members of the local community consider the cultural and environmental objectives of the region to be in conflict. However, noting that the De Salis's original poplar 'stand' was confined to a single windrow appropriately spaced from the banks of the Murrumbidgee such that it did not pose any significant environmental concerns, we propose that this perceived conflict can be resolved through the proposed remediation program.
- The primary objective of this program will be the staged removal of Lombardy Poplars which have invaded into the River Corridor. Starting with trees closest to the Murrumbidgee, Poplars will be killed in stages and replaced with native tree species – primary *Eucalyptus viminalis* and *Eucalyptus camaldulensis*. Large Poplars will be strategically felled to form log jams and catch upstream sediment. Works will also be staged such that planted trees have an opportunity to establish and stabilise the riverbank before all the invasive Poplars are removed.
 - The first stage of this process has already commenced under a previous weed contract. The works plan for felling these dead poplars is with management for consideration.
 - **Attachment B** provides a pictorial summary of the planned works.
- The original row of Lombardy Poplars (which now lines the Western edge of the De Salis cemetery walking track) will be preserved in perpetuity with senescent trees being replaced with local cultivars. Thus, the heritage value of the Lombardy Poplars will be enhanced by restoration of the original De Salis windrow.

Background information

Cultural Heritage

- The [Tharwa Village Plan](#) states that its first principle is to 'retain and enhance the existing rural village character and identity'. Sub-ordinate to this principle is the need to preserve the village's significant natural and cultural heritage features.
- A mature stand of Lombardy poplars (*Populus nigra 'Italica'*) was first planted as windrow by Leopold De Salis in the 1870's, approximately 50 metres from the bank of the Murrumbidgee River. This original 'stand' of poplars (pictured at **Attachment A**) is highlighted as a key cultural heritage element in the Tharwa Village Plan.
 - Noting the limited lifespan of Lombardy poplars, and their capacity reproduce asexually via 'suckers', it is likely that the current cohort of trees are the 'daughters' of the original windrow – rather than the original trees themselves.

Environmental conservation

- The Tharwa village plan dictates that the Murrumbidgee River Corridor should be used for recreational purposes in a way that respects the quality of the water, ecological habitat and

riparian zone. Another key goal of the plan is to enhance the diminished conservation value of the riparian zone, protecting both the river and the Murray-Darling Basin more broadly.

- The characteristics which make Lombardy poplars a popular choice for farming windrows – rapid growth, tolerance to a wide range of climactic conditions, ability to reproduce asexually from cuttings or from suckers – also make the species a challenging invasive species. Poplars within the flood margin of the riverbank are particularly troublesome given the capacity to spawn additional populations downstream during flood events.
- Overgrazing and clearing of riparian vegetation for farming has caused the banks of the Murrumbidgee River in the Tharwa region to erode, broadening the river and reducing maximum depth. A lack of shaded bank margins and the absence of deep pools more resistant to extremes in temperature or turbidity extremes is a barrier to the recovery of aquatic species including Murray Cod, Trout Cod and the Murray Crayfish.

Attachment A – Photographic comparison of historical Lombardy Poplar windrow against contemporary extent.

HISTORICAL PICTURES – Tharwa Village Precinct

Figure 1 - Tharwa village oblique aerial imagery facing southwest on 23 October 1953. Note the single row of mature Lombardy Poplars upstream of Tharwa Bridge on river right.



Pictorial Source [Tharwa Village Precinct - Background Information - November 2017 \(act.gov.au\)](http://act.gov.au)

CONTEMPORARY PICTURES – Tharwa Village Precinct

Figure 2 - Oblique image of Lombardy Poplars taken from Tharwa bridge, facing Southwest, on 13 Nov 2021. Image shows Poplars post treatment of invasive individuals closes to riverbank.



Attachment B – Proposed stages for control of Tharwa Bridge Lombard Poplars to restore cultural windrow.

Figure 3a: Aerial imagery of Lombardy Poplars as at Dec 2021. Figure depicts proposed staged works for restoration of original cultural windrow. All poplars on the Eastern side of the De Salis Track will be removed and replaced with native trees, providing a contrast against the original De Salis windrow of poplars which will be concurrently restored.



Asset location information

Applicant/Contractor

Job No.

33585589

DBYD Sequence No.

221001899

Company: ACT Parks and conservation service
Contact: James Parker
Telephone: + [REDACTED]
Address: 1541 Cotter Road Stromlo ACT 2611
Email: [REDACTED]

Work Details



Suburb: Tharwa
Address: 8 Naas Road

Description: Use of 27 tonne excavator to control fell and mulch dead standing poplars on river edge. NO DIGGING OR EXCAVATIONS PLANNED. Enquiring due to fear that tracks of heavy excavator will disturb up to 2 foot of topsoil.

Enquiry Date: 09-Feb-2023 Issue Date: 09-Feb-2023

Information

The approximate location of Evoenergy or Icon Water assets in the area-of-enquiry are shown on the attached maps.

Please review all attached maps to check whether there are Evoenergy or Icon Water utility assets within your work area.

Please refer to your Dial Before You Dig (DBYD) enquiry information to ensure that you have received asset maps from all relevant utility owners before you commence work.

Note that there may be additional pages attached dependent on what assets are found in the area; and that maps might be on pages of different sizes.

Individual customer gas connections are generally not shown on any attached Evoenergy Gas Network map. For information regarding individual gas connections we recommend that you request a site meeting / inlet service location as per Item 7 in the Disclaimer.

Comments

This information is valid from **09-Feb-2023** to **09-May-2023**

IN CASE OF EMERGENCY OR TO REPORT DAMAGE PHONE:
13 10 93 ELECTRICITY | **02 6248 3111** WATER AND SEWER | **13 19 09** GAS

Please read the following important information (overleaf)



evoenergy

icon
WATER

Disclaimer

1. General location only

The Applicant acknowledges that:

- (a) while Icon Water and Evoenergy have used reasonable endeavours to keep Asset location records current, neither party makes any warranty, guarantee or representation as to the accuracy, currency or completeness of the information contained in the attached Asset Plans.
- (b) Asset Plans:
 - i. may not show all assets in the work area;
 - ii. show only the general and approximate location of Assets;
 - iii. may show the position of Assets relative to fences, buildings, property lines, kerbs and/or other points of reference that existed at the time the Assets were installed. Any subsequent alterations to those fences, buildings etc may not have been updated on the Asset Plans. Persons should not rely on such things as a point of reference to estimate location of the Assets.

2. Limitation of liability

To the maximum extent permitted by law:

- (a) subject to paragraph 2(b), Icon Water, Jemena and Evoenergy and the officers, employees and agents of each accept no responsibility or liability for any loss, damage, liability, cost, expense, claim or proceeding of whatever nature and howsoever arising, incurred by or awarded against the Applicant or its officers, employees, agents, contractors or subcontractors, arising out of, connected with or as a consequence of use of the Asset Plans or any inaccuracies in the Asset Plans;
- (b) where:
 - i. a Jemena or Evoenergy representative has, at the Applicants request, attended the work site to mark the location of Assets prior to commencement of any works on the work site, and
 - ii. the Jemena or Evoenergy representative has been proven to be negligent in marking the Asset locationthen Icon Water, Jemena and Evoenergy's liability, and the liability of the officers, employees and agents of each, is limited, at Icon Water / Jemena / Evoenergy's option, to re-attending the work site to re-mark the Asset location or paying the costs of having a third party attend the work site to re-mark the Asset location.

3. Evoenergy Authorisation and Accreditation for Working on or near the Electricity Network

Accreditation is the process of ensuring that a company or person, wishing to carry out work on or near Evoenergy electricity network, has the necessary level of skills, resources and insurance to undertake the work in a safe and reliable way. Evoenergy has obligations under the Utilities (Management of Electricity Network Assets Code) Determination 2013 to ensure that anyone working on or near its electricity network is adequately and safely trained. Evoenergy takes these obligations seriously.

Anyone working on or near Evoenergy's electricity network

must have the appropriate accreditation and authorisation to do so prior to commencing works.

To gain authorisation to work on or near the electricity network you will need to:

1. Ensure you or your company is accredited with Evoenergy by making an application with Evoenergy. The application form can be found on the Evoenergy website: www.evoenergy.com.au
2. Wait for Evoenergy to assess your application and notify you of the outcome.
3. Receive your Compliance tool login and QR code from Evoenergy as proof of authorisation. The QR code is required to be available at all times when working on or near the network.

For further information contact:

accreditations@evoenergy.com.au

4. Electricity cables to be treated as LIVE

ALL electricity cables and conductors identified on the attached Asset Plans, including those marked as 'Abandoned', **MUST** be treated as 'LIVE' and dangerous until such time that they are tested and proven to be 'DE-ENERGISED'. Evoenergy recommends that cables identified as 'Abandoned' and which may be impacted, severed, damaged and/or removed by excavation works be proven 'DE-ENERGISED' and safe before commencing full-scale excavations.

5. Location of Assets may change

Assets may be moved, or additional Assets may be installed at any time. Persons using the attached Asset Plans are advised to be alert for changed locations or new installations performed after the Issue Date. If work extends for a period of 3 months beyond the Issue Date, a new application **MUST** be made to Dial Before You Dig for up to date Asset Location Information.

6. Work to be undertaken without interference or damage to assets

Any work undertaken near Assets, including without limitation excavation, structures, material storage, heavy vehicle parking, blasting or change of surface level, must be performed in a way that does not interfere with the reliability of, or access to Icon Water or Evoenergy Assets, including electricity lines or plant. Persons excavating are required to exercise care if Assets are indicated on Asset Plans and will be held responsible for any damage caused through failure to exercise such care. Icon Water or Evoenergy (as applicable) will pursue the person responsible for causing the damage or interference to their Assets to recover costs and expenses incurred in remedying such damage or interference.

7. Asset location marking

You may request our representative to visit the work site to mark the approximate location of Assets by calling **02 6293 5770** (Water and Electricity – excluding streetlight assets) or **1300 503 237** (Gas) between 7:30 am and 4 pm. Irrespective of any mandatory directions given in this notice, Evoenergy recommends that a site visit be conducted before commencing any works near Assets. Appointments will be accepted only if the Asset Location Information Sequence



Number is supplied. The location and marking of Assets will not take place unless the Asset Location Advice and attached Asset Plans are in colour and to the same scale as supplied, and are at the work site. Evoenergy does not charge for these site visits. Alternatively, the Applicant may wish to engage a private underground Asset locator, at the Applicant's expense.

You are responsible for maintaining the presence / visibility of all markings and to ensure that all workers on site are aware of:

- the presence of Icon Water / Evoenergy infrastructure in the vicinity of the intended work and
- Icon Water, Jemena and Evoenergy's requirements.

NB: Arranging for marking of approximate Asset locations by either an Evoenergy representative or private underground asset locator will not relieve the Applicant and persons working on their behalf of responsibility to exercise care when working near Evoenergy / Icon Water Assets or for any damage they cause to Evoenergy / Icon Water Assets while performing works.

8. Underground Assets must be located by potholing

Potholing or other non-destructive techniques must be used until underground Assets are located. When located, excavation may commence provided that persons carrying out the excavation work must follow Evoenergy's recommended specifications concerning minimum safety distances when excavating within the vicinity of Icon Water or Evoenergy's networks. Unless otherwise approved by Jemena, **under no circumstances can mechanical excavation be carried out within 1.0 metres of a gas main without a Jemena Representative on site.**

9. Water, Sewer and Effluent Mains

Icon Water requires mandatory supervision by authorised Icon Water personnel when potholing and excavating within the vicinity of critical water and sewer network assets (as determined by Icon Water) or Icon Water mains with a diameter of 300mm and above. **All effluent mains are classified as critical assets.**

To arrange an inspection or for any emergency please call Icon Water **02 6248 3111**.

10. Substation Earthing Conductors

The information does not include details of substation earthing conductors. These are installed within the vicinity of pole and ground mounted substations. Earthing conductors extend 1.0m in each direction from the substation. However, please be aware that site-specific requirements mean earthing conductors may be installed beyond this distance. Further information can be provided upon request.

11. Indications of the Presence of Cables

The presence of cables or conduits may be indicated by the following warning and marking devices

- Letter "E" inscriptions on Kerbs or "Electrical" inscriptions on pit lids
- Danger signs on above ground posts, walls etc
- Thin Orange "Caution Electrical Cables" Warning Tape

- Orange /Black PLASTIC Polymeric slab (3-6mm thick x 200mm wide)
- Concrete Bricks or slabs (approx 200mm x 500mm)
- Orange PVC or white Asbestos Cement (AC) Conduit or Galvanized Pipe
- Cylindrical concrete "ACTEA Electric Cable" markers
- Weak Concrete encasement directly around cables / conduits
- Texture/ colour change of excavated material (bedding sand, cracker dust, clean fill)

Note that some cables may have been installed without the presence of such marking devices.

12. Gas mains

- (a) Evoenergy gas mains are managed by Jemena Asset Management Pty Ltd and operated by Zinfra.
- (b) Mandatory stand-by / supervision by Zinfra personnel is required when excavating within the vicinity of critical gas network assets OR where mechanical excavation is required within 1.0 metres of the gas network. Your activity around critical gas assets will be supervised by Zinfra at no charge for the first two hours. This supervision is to ensure the integrity of Evoenergy's assets is maintained.

Note: Charges may apply if stand-by is required for longer than two hours.

Please contact Zinfra on **1300 503 237** between 7.30 am and 4 pm if you require a stand-by person.

13. High Pressure Gas Network Assets

You must supply Jemena with your proposal of works including a written outline of your works and design plans for review. It may take up to four weeks for Jemena to review your works proposal. Following review, we will advise you of Jemena's requirements for protecting the High Pressure gas main.

Please mail your proposed works details to:

Jemena Asset Management Pty Ltd
Attention: Land Services Department
PO Box 1220
North Sydney NSW 2059

or email land.services@jemena.com.au

Please note that a duty of care exists to ensure that this gas main is not compromised or damaged during future development or construction work.

14. Streetlight Assets

Streetlight assets in the ACT are owned and maintained by the ACT Government. You expressly acknowledge and agree that

- (a) Evoenergy does not maintain streetlight asset information; and
- (b) any such information provided by Evoenergy may not be up to date, reliable or complete and is provided strictly on an "as is" basis without any warranty of any kind. Please contact Access Canberra on **13 22 81** during business hours if you require further information.

THIS DOCUMENT AND ASSOCIATED ASSET PLANS MUST BE KEPT AT THE WORK SITE.





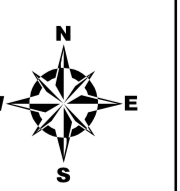
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Evoenergy Electricity Network

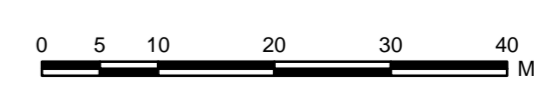


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Seq #: 221001899
8 Naas Road, Tharwa






ELECTRICITY NETWORK LEGEND

Support Structure (Distribution)

-  Pole
-  Streetlight-Only Pole

Support Structure (Transmission)

-  Pole
-  Tower
-  Yard Structure



Underground Structure

-  Pit




Recloser

-  Recloser

Building

-  Zone Building
-  Standalone Chamber

Switches

-  Air Break
-  Load Break
-  Overhead Link

Fuse

-  Drop Out Fuse


Service Point

-  Service Point


Streetlight

-  Streetlight Controller

Joint

-  Cable Joint

Underground Earth Cable

-  Underground Earth Cable

Fibre Communication Cable

-  Fibre Communication Cable




Copper Communication Cable

-  Pilot Cable




Streetlight

-  Streetlight
-  Streetlight Controller
-  Streetlight Photoelectric Controller
-  Other Streetlight Support
-  Streetlight Column




Streetlight Cable

-  Overhead Streetlight Line
-  Underground Streetlight Line, In Service
-  Underground Streetlight Line, Abandoned

Transmission Line

-  Overhead Transmission Line
-  Underground Transmission Line, In Service
-  Underground Transmission Line, Abandoned



HV Electric Lines

-  Overhead HV Electric Line
-  Underground HV Electric Line, In Service
-  Underground HV Electric Line, Abandoned



LV Electric Lines

-  Overhead LV Electric Line


Underground LV Electric Line <= 50 mm

-  Underground LV Electric Line, In Service
-  Underground LV Electric Line, Abandoned



Underground LV Electric Line > 50 mm

-  Underground LV Electric Line, In Service
-  Underground LV Electric Line, Abandoned



Service Lines

-  Overhead Service Line





Underground Service Line <= 50 mm

-  Underground Service Line, In Service
-  Underground Service Line, Abandoned













Underground Service Line > 50 mm

-  Underground Service Line, In Service
-  Underground Service Line, Abandoned








DuctBank

-  <all other values>
-  Conduit
-  DepthIndicatorDeep
-  DepthIndicatorShallow

Ground Mounted Structure

-  Streetlight Control Cubicle
-  Distribution Box
-  Point-Of-Entry Cubicle
-  HV Switching Station
-  Kiosk
-  Padmount
-  Link Pillar
-  Micro Pillar
-  Mini Pillar
-  Pregnant Column
-  Communication Cubicle
-  SCADA Cubicle

Electric Supply Site

-  132kV Switching Station
-  Bulk Supply Station
-  Mobile Zone Substation
-  Zone Substation
-  Overhead Substation
-  Chamber Substation
-  Stockade

IMPORTANT NOTE:

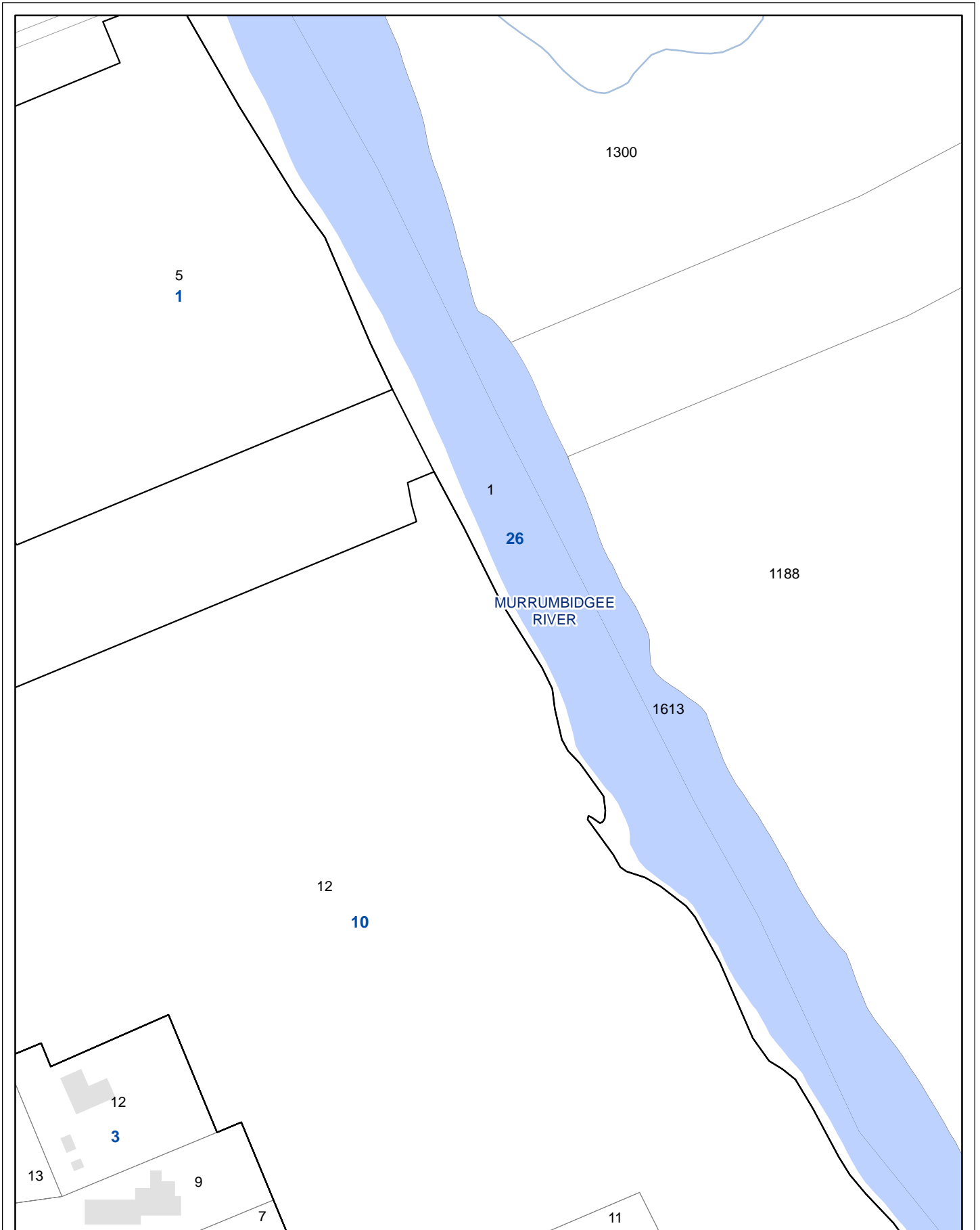
- The term 'ABANDONED' is utilised to identify an underground cable that has been physically disconnected from the Evoenergy electricity network, is not in service and cannot readily be put back into service without specific augmentation and/or reconnection works. Cable(s) identified by Evoenergy as 'ABANDONED' have been discarded in-situ by Evoenergy. ALL cables should be treated as 'LIVE' and Dangerous until proven de-energised and safe.

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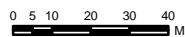
Seq #: 221001899
8 Naas Road, Tharwa

Effluent Network




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










Icon Water: Effluent Re-use Network Legend




Hydrant

-  Overhead Filling Point
-  Mill Cock
-  Pillar Hydrant
-  High Capacity
-  Spring Hydrant



Fitting

-  Outlet
-  Inlet
-  Blank Flange
-  Dual Service Tee
-  End Cap
-  Gibault Joint
-  Maintenance Hole
-  Open End
-  Orifice Plate
-  Reducer
-  Tapping Band Bend

Service Connection (Meter)

-  Flow Element
-  Billing Large Diameter
-  Billing Small Diameter

Test Station

-  Flow Recording Device
-  Sampling Point



Pump

-  Pump



System Valve

-  <all other values>
-  Ball Valve
-  Butterfly Valve
-  Cone Valve
-  Gate Valve
-  Globe Valve
-  Needle Valve
-  Scour Valve

Control (Protection) Valve

-  DCV Double Check
-  Reflux Valve
-  AV Single Air Valve
-  DAV Double Air Valve
-  Enhanced Double Air Valve
-  RPZD Reduced Pressure Zone Valve
-  Pressure Relief Valve
-  Float Valve





Curb Stop Valve

-  Main Cock Valve
-  Tapping Band Valve






Reservoir Supply

-  Reservoir Supply




Main

-  Rising Main
-  Bulk Supply
-  Distribution Main
-  Reticulation

Lateral Line

-  Irrigation
-  Wash Down
-  Overflow
-  Scour
-  Drain

Effluent Structure

-  Dam
-  Pump Station
-  Reservoir Structure
-  Treatment Plant
-  Valve Chamber

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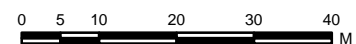
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Evoenergy Gas Network



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GAS NETWORK LEGEND

GasStation CRITICAL

-  DistrictRegulator
-  TrunkReceivingStation
-  PrimaryRegulatingStation
-  BulkMeteringStation
-  PressureMonitoringStation
-  ScraperStation
-  BoundaryRegulatorSet
-  SecondaryBoundaryRegulatorSet
-  ValveStation




GasDevice

-  <all other values>
-  IsolationValve
-  Odouriser
-  Siphon
-  WaterbathHeater
-  Filter
-  Catalyst Heater
-  Silencer
-  Regulator










GasDevice High Risk Valve CRITICAL

-  HighRiskAreaIsolation



GasMeter

-  DomesticMeter
-  IndustCommMeter
-  SecondaryMeterSet

GasFitting

-  EndCap
-  Tee
-  ExpansionJoint
-  Flange
-  Reducer
-  Cross
-  ServiceSaddle
-  InsulationJoint
-  GaugingPoint



CPAnode

-  AnodeGroundBed
-  SacrificialAnode

CPRectifier

-  TransformerRectifier





CP Cable

-  CPRectifierCable
-  CPGroundBedCable




Conduit

-  Conduit



GasStructure

-  <all other values>
-  CPKiosk
-  Pit
-  StationStructure






GasService

-  <all other values>
-  Gas Service IN USE
-  Gas Service NOT IN USE










GasService STEEL or MAOP >= 1050 OR DIA >= 75mm CRITICAL

-  Gas Service IN SERVICE
-  Gas Service NOT IN SERVICE

GasPipe

-  <all other values>
-  DistributionMain, Nylon, InService
-  Gas Pipe NOT IN USE
-  DistributionMain, PE, InService
-  DistributionMain, Copper, InService

GasPipe STEEL OR MAOP >= 1050 OR DIA >= 75mm CRITICAL

-  DistributionMain, Copper, InService
-  DistributionMain, Nylon, InService
-  DistributionMain, PE, InService
-  PrimaryMain, Steel, InService
-  PrimaryMain, Steel, Proposed
-  SecondaryMain, Steel, InService
-  SecondaryMain, Steel, Proposed
-  TransmissionMain, Steel, InService
-  Gas Pipe NOT IN USE

- R 10.0 = DISTANCE TO ROAD
- B 10.0 = DISTANCE TO BOUNDARY
- E 10.0 = DISTANCE TO END
- C 10.0 = DISTANCE TO CHANGE OF DIRECTION

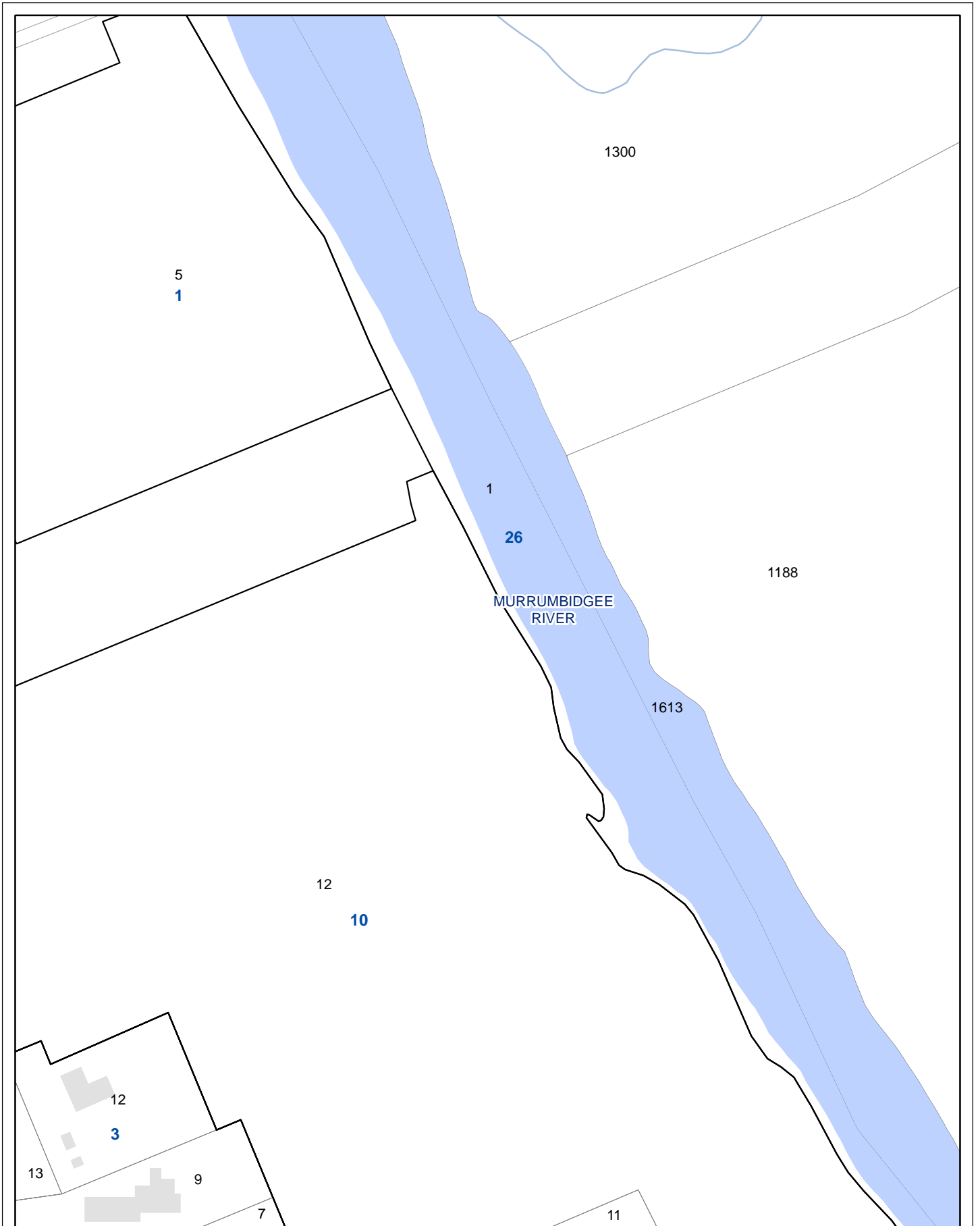
-  = DISTANCE FROM MAIN TO KERB
-  = DISTANCE FROM MAIN TO BOUNDARY

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8 Naas Road, Tharwa

Sewer Network



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0 5 10 20 30 40
M



Icon Water: Sewer Network Legend

Abandoned Point

- ✕ Abandoned Point

Maintenance Hole

- Active
- De-Commissioned

Fitting

- ^{BVR} Buried Vertical Riser
- Dead End
- ▶ Reducer
- Riser
- Tee

Service Connection

- Service Connection

DischargePoint

- ⌋ DischargePoint

Gauging Point / Test Station

- ◆ ChemicalTransducer
- ◆ ElectroMagnetic
- ◆ Flume
- ◆ PressureTransducer
- ◆ Sonic
- ◆ Venturi
- ◆ WeirGauge

Inspection Shaft

- ^{SIS} ● Special Inspection Shaft
- ^{SMS} ● Standard 225 Inspection Shaft

Clean Out Point

- ^{RP} ● Rodding Point

Control (Protection) Valve

- ◇ Air Valve
- ↶ Reflux Valve

Pump

- Pump

Storage Tank / Vault

- ▣ Storage Tank / Vault

SystemControlValve

- ^{SCOUR} ⚡ Scour Valve
- ⊙ Ball Valve
- ^{PLUG} ⚡ Plug
- ⚡ Gate Valve
- ^{SL} ⚡ Stop Log
- ^P ⚡ Penstock

Sewer Structures

- ◇ Odour Scrubber
- ⊕ Sewer Fan
- ^{SVE} ● Vent

Vertical Drop

- ^{SVD} ● Vertical Drop

VortexDrop

- ^V ▼ VortexDrop

Weir

- ^W ● Weir

Gravity Main

- Vent Pipe
- Reticulation Main
- Trunk Main
- Tunnel
- Siphon
- Overflow Pipe
- Inline Storage

Pressure Main

- Pressure Main

Lateral Line

- Property Service Line
- Scour Line

De-Commissioned Mains

- De-Commissioned Mains

Abandoned Mains

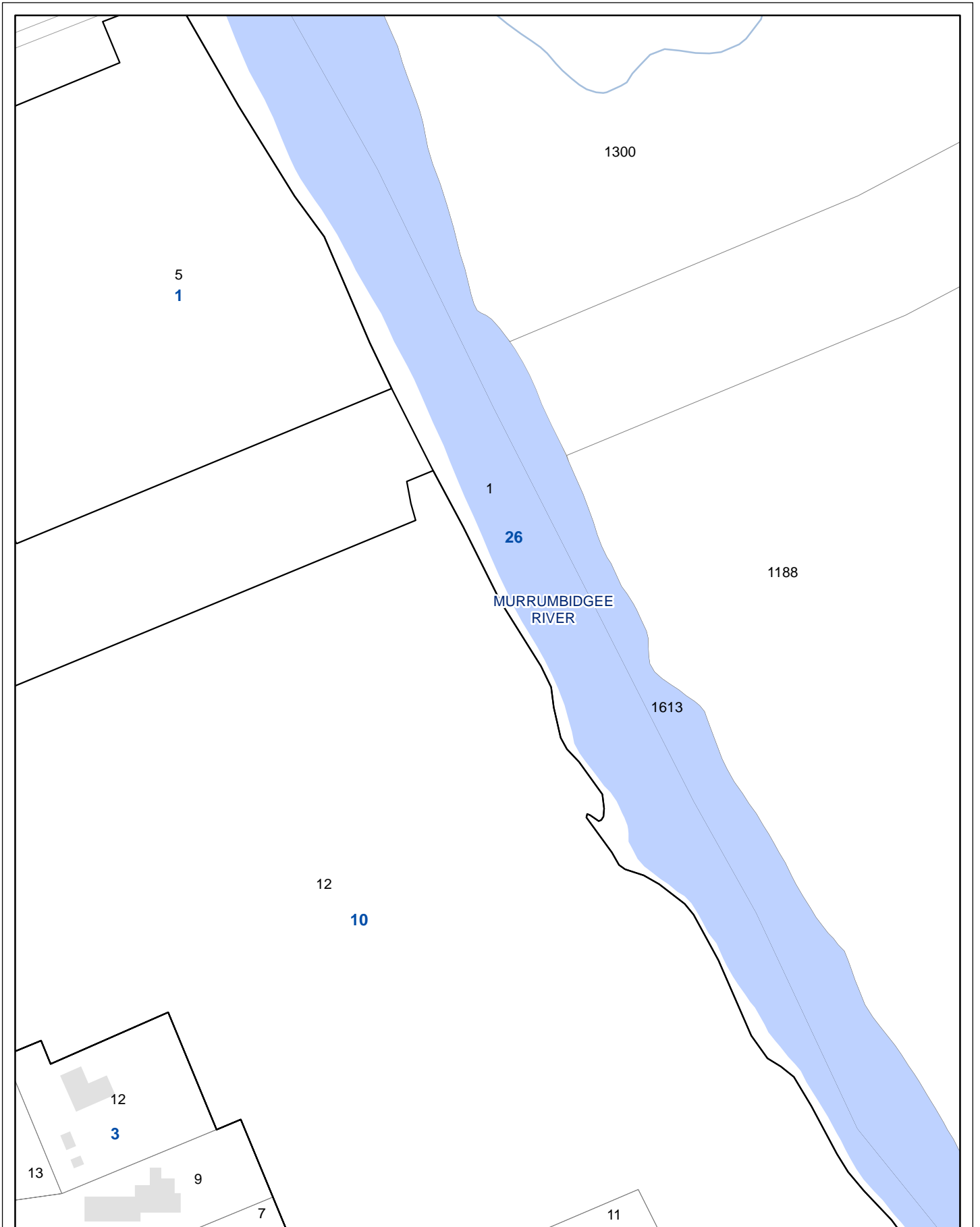
- Abandoned Mains

Sewer Structure

- DiversionChamber
- DiversionPoint
- PumpStation
- SplitManhole
- StorageBasin
- TreatmentPlant
- DischargeStructure
- PipeBridge
- SeptageFacility
- ValveChamber

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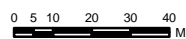
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Water Network








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Icon Water: Water Network Legend




Hydrant

-  HighCapacity
-  MillCock
-  OverheadFillingP...
-  PillarHydrant
-  SpringHydrant

Service Connection (Meter)

-  Flow Element
-  Billing Large Diameter
-  Billing Small Diameter


Test Station

-  Pressure Recording Device
-  Flow Recording Device
-  Sampling Point









Pump

-  Pump








System Valve: Ball

-  Ball Valve














System Valve: Butterfly

-  Altitude Inlet Control
-  Back Up
-  DualFlowRate
-  Flow Altitude
-  Flow Rate Control
-  Isolation
-  Normally Closed Isolation
-  Pump Control







System Valve: Butterfly Motorised

-  Altitude Inlet Control
-  Back Up
-  DualFlowRate
-  Flow Altitude
-  Flow Rate Control
-  Isolation
-  Normally Closed Isolation


Control Valve

-  Pump Control
-  Control (Protection) Valve
-  Double Air
-  Double Check
-  Enhanced Double Air Valve
-  Float Valve
-  Pressure Relief Valve
-  Reduced Pressure Zone
-  Reflux Valve
-  Single Air
-  System Valve: Cone
-  Altitude Inlet Control
-  Outlet Control









System Valve: Gate

-  Zone Valve
-  Normally Closed Isolation
-  Isolation
-  Flow Rate Control
-  Back Up
-  Altitude Inlet Control


System Valve: Gate Motorised

-  Isolation


System Valve: Globe

-  Pump Control
-  Pressure Sustaining
-  Pressure Reducing
-  Flow Rate Control
-  Flow Altitude
-  Outlet Control
-  Back Up
-  Altitude Inlet Control

System Valve: Needle

-  System Valve: Needle





System Valve: Scour

-  System Valve: Scour







Network Structure

-  Service Reservoir
-  Treatment Plant Reservoir
-  NonPotable Water Reservoir
-  Minor Tanks


Main

-  Reticulation Main
-  Distribution Main
-  Bulk Supply Main
-  Rising Main







Lateral Line

-  Domestic Service
-  Fire Service
-  Overflow
-  Wash Down
-  Scour
-  Drain

Abandoned Mains and Lateral Lines

-  Abandoned Mains and Lateral Lines

Water Structure

-  Dam
-  Pipe Bridge
-  Pump Station
-  Reservoir Structure
-  Treatment Plant
-  Valve Chamber

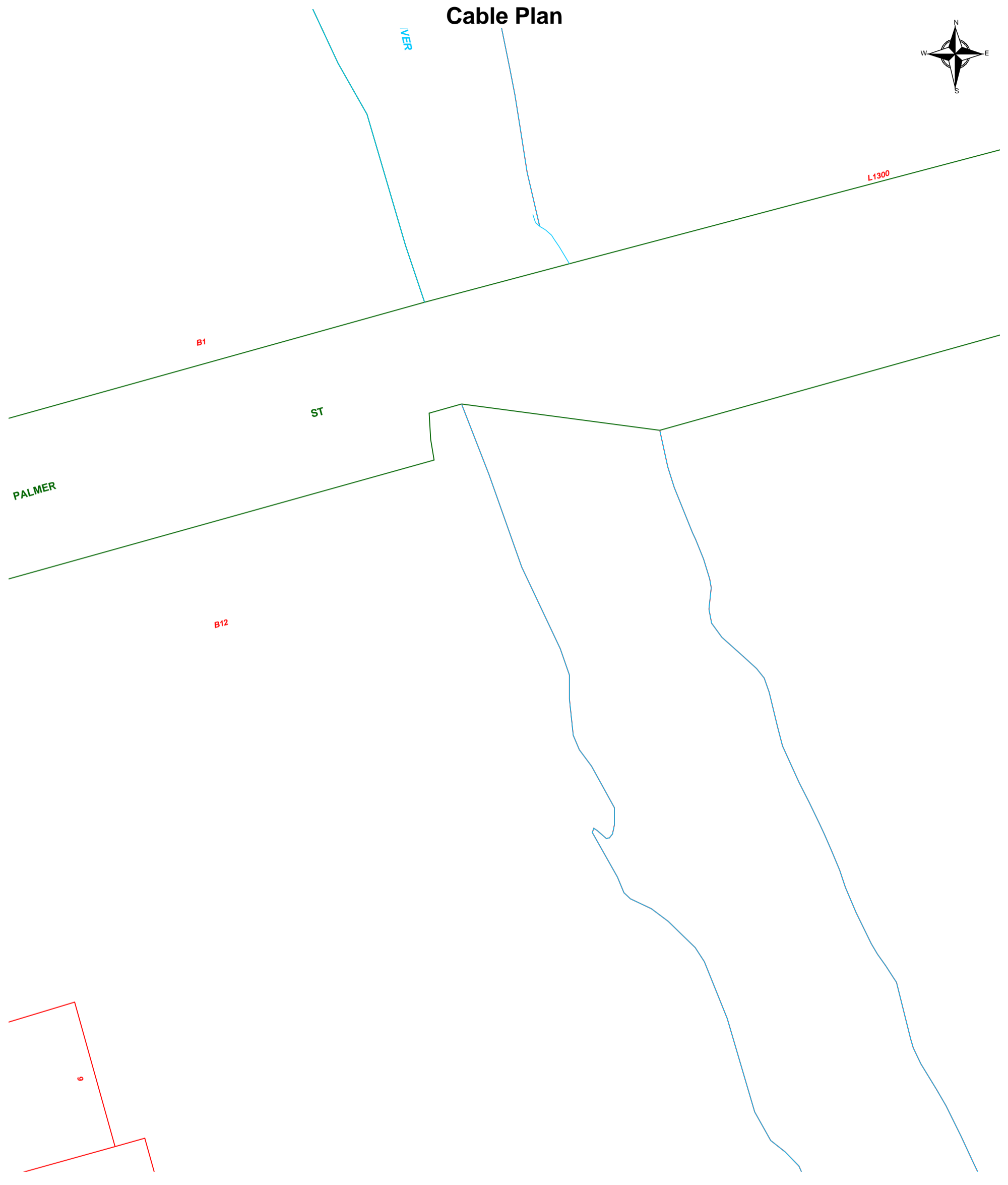
Warning Zone:
Contact Icon Water before any excavation in this area 62483111



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Cable Plan



Report Damage: <https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

Sequence Number: 221001898

Please read Duty of Care prior to any excavating

TELSTRA LIMITED A.C.N. 086 174 781

Generated On 09/02/2023 14:09:23

WARNING

Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.

As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D.

Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.

Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy.

Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.

A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps- Telstra Duty of Care that was provided in the email response.



OPENING ELECTRONIC MAP ATTACHMENTS -

Telstra Cable Plans are generated automatically in either PDF or DWF file types dependant on the site address and the size of area selected. You may need to download and install free viewing software from the internet e.g.



PDF Map Files (max size A3)

Adobe Acrobat Reader (<http://get.adobe.com/reader/>),



DWF Map Files (all sizes over A3)

Autodesk A360 (<https://360.autodesk.com/viewer>) or

Autodesk Design Review (<http://usa.autodesk.com/design-review/>) for DWF files.
(Windows)



Telstra DBYD map related enquiries

email - Telstra.Plans@team.telstra.com

1800 653 935 (AEST Business Hours only)



REPORT ANY DAMAGE TO THE TELSTRA NETWORK IMMEDIATELY

Report online - <https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>

Ph: 13 22 03

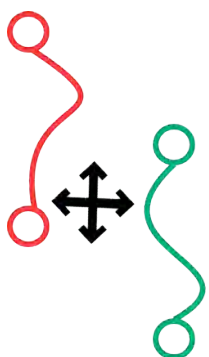
If you receive a message asking for a phone or account number say:

"I don't have one" then say "Report Damage" then press 1 to speak to an operator.



Telstra New Connections / Disconnections

13 22 00



Telstra asset relocation enquiries: 1800 810 443 (AEST business hours only).

NetworkIntegrity@team.telstra.com

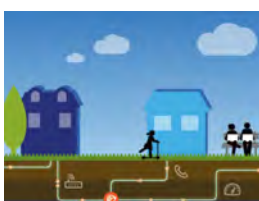
<https://www.telstra.com.au/consumer-advice/digging-construction>

Certified Locating Organisation (CLO)

<https://dbydlocator.com/certified-locating-organisation/>



Please refer to attached Accredited Plant Locator.pdf




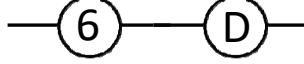


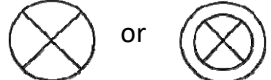

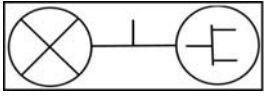







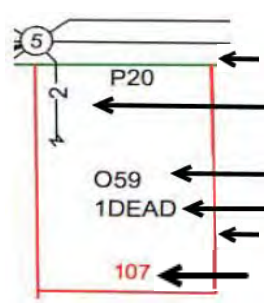
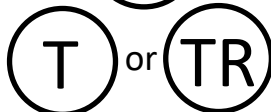
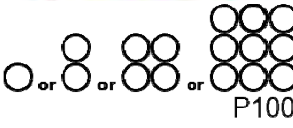

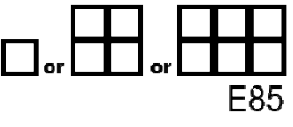

Telstra Smart Communities

Information for new developments (developers, builders, homeowners)

<https://www.telstra.com.au/smart-community>

LEGEND

For more info contact a [Certified Locating Organisation](#) or Telstra Plan Services 1800 653 935

	Exchange (Major Cable Present)		Cable Jointing Pit (number / Letter indicating Pit Type)
	Footway Access Chamber (can vary from 1-lid to 12-lid)		Elevated Joint (above ground joint on buried cable)
	Pillar / Cabinet (above ground / free standing)		Telstra Plant in shared Utility trench
	Above ground complex equipment housing (eg RIM) Please Note: This equipment is powered by 240V Electricity		Aerial Cable
	Other Carrier Telecommunications Cable/Asset		Aerial Cable (attached to joint Use Pole eg. Power)
	Distribution cables in Main Cable ducts		Direct Buried Cable
	Main Cable ducts on a Distribution plan Blocked or damaged duct.		Marker Post Installed
	Roadside / Front Boundary 2 pair lead-in to property from pit in street 1 O59 ← pair working (pair ID 059) 1DEAD ← 1 pair dead (i.e. spare, not connected) Side / Rear Property Boundary Property Number		Buried Transponder
	Single to multiple round conduit Configurations 1,2,4,9 respectively (attached text denotes conduit type and size)		Marker Post, Transponder
	Multiple square conduit Configurations 2, 4, 6 respectively (attached text denotes conduit type and size)		Optical Fibre cable direct buried

Some examples of conduit type and size:

A - Asbestos cement, P - PVC / Plastic, C - Concrete,
GI - Galanised iron, E - Earthenware
Conduit sizes *nominally* range from 20mm to 100mm
P50 50mm PVC conduit
P100 100mm PVC conduit
A100 100mm asbestos cement conduit

Some Examples of how to read Telstra Plans

One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits. approximately 20.0m apart, with a direct buried 30-pair cable along the same route

Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. The exact position of Telstra assets can only be validated by physically exposing them. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.



Date 13/02/2023

Purchase Number **155188**

Invoices NOT quoting Purchase Order Number may be returned

To assist in prompt payment please make Invoice to the Attention of: Shelley Swain

Who is located at: PCS- Stromlo Depot

Description Tharwa Bridge Poplars - Falling and mulching of dead wood, as per quote QU-0270

Purchase Details	
Supplier	Summiitt Earthworks Pty Ltd
Phone:	Fax:
	Email: summiitt@bigpond.com
InvoiceNum	
InvoiceValue	\$33,125.00

Procurement Requirements	Contract Number:
Is this purchase made under a Contract?	N/A
QUOTES	
All purchases under \$ 5000 require 1 quote (or \$20 000 for works)	
All purchases under \$50 000 require 3 quotes	

Requested	Shelley Swain	<input type="text"/>	/ /
Authorised	Oliver Orgill	<input type="text"/>	/ /

Entity	CostCentre	NatAcc	Internal	Project	Programme	ValueGST	Ex GST
120	13403	710306	99	99999	9999	\$33,125.00	\$30,113.64
	Murrumbidgee	R&M - Gardens & Grounds		External	General Non-Specific		General Non-Specific

Clear Reference to the PCS Order Number must be shown on Invoice OR a copy of this Order attached to Invoice

From: Swain, Shelley
Sent: Wednesday, 15 February 2023 10:59 AM
To: Johnson, Amanda
Subject: Use of Summiitt contract for MRC works

OFFICIAL

Hi AJ

Just to confirm in writing our agreement that MRC will engage Summiitt Earthworks to undertake vegetation management in the Tharwa area, under contract number GS0125108.210 'Road and Trailside Mechanical Vegetation Management Services'. I'll note the contract number in the invoice processing stage in APIAS. The price for services is just under \$35,000 at this stage.

Many thanks

Shelley

Shelley Swain | Ranger in Charge - Murrumbidgee

Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au

ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**

1541 Cotter Rd, Casuarina Sands ACT 2611

GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Swain, Shelley
Sent: Thursday, 2 March 2023 3:45 PM
To: Orgill, Oliver
Subject: Tharwa Poplars - Letterbox and works plan review

OFFICIAL

Hi Ollie

Links below to the Tharwa poplar removal project docs.

WP: Regarding Outward Bound activities, if they have nothing planned do you prefer to close the trail all the way to De Salis Cemetery, rather than just to the NR start? Opportunistically we might get into the NR side of the track. I can talk to them tomorrow.

I'll submit the advice of works under our waterway works licence to EPA tomorrow. I don't think JP got to this.

LETTER: I'd like to tidy the letter with a closer up map so everything is clearer. I can also play with the layout to make it on gov letterhead if you like, or just make it tidier in general.

Let me know if any amendments are required. If I can wrap the letter up tomorrow, I'll see if the guys can disseminate over the weekend.

Thanks

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Parker, James <James.Parker@act.gov.au>
Sent: Wednesday, 1 March 2023 3:42 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Subject: Tharwa Poplars - Letterbox and works plan review

OFFICIAL

Hey Shell,

As discussed, links to the current works plan and letterbox drop attached below for your review. Please make adjustments as you see fit before handing to Ollie.

Works plan: [LINK](#)
Letterbox drop: [LINK](#)

Feel free to give Tim a call if you find a spare minute this week, otherwise I'll try and keep chasing him next shift 😊

Cheers,
James Parker
Gigerline Ranger
ACT Parks and Conservation.
Murrumbidgee River Corridor Depot

1541 Cotter Road ACT 2611

Ph. [REDACTED]

Email: james.parker@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.





ACT
Government



ACT Parks and Conservation Service

WORKS PLAN

Tharwa Lombardy Poplar Weed Management

Date: 2 March 2023

Area Manager: Oliver Orgill

Reserve/Work Area: Tharwa Special Purpose Reserve

Author: James Parker and Shelley Swain

DELEGATE APPROVAL:

_____ / /

Works Plans are required if one or more of the following triggers exist:

Trigger	Activities
Chemical use	<input type="checkbox"/> All weed control works except those covered by a Weed Project Brief and Contract <input type="checkbox"/> All Bushfire Operations Plan works involving chemical control of regrowth <input type="checkbox"/> All vertebrate pest control works
Construction	<input type="checkbox"/> New fences, log barriers and/ or bollards <input type="checkbox"/> New dams <input type="checkbox"/> New walking trails or section of trail <input type="checkbox"/> New infrastructure including car-parks, sheds, toilets etc particularly where these do not trigger a DA or PA
Road works	<input type="checkbox"/> New roads or tracks <input type="checkbox"/> All road maintenance works (including: grading, cleaning of mitre drains and table drains; cleaning out of culverts)
Vegetation management	<input type="checkbox"/> All Bushfire Operations Plan works involving physical fuel reduction and fuel reduction grazing <input checked="" type="checkbox"/> All works involving problem / dangerous trees <input type="checkbox"/> Slashing / mowing of areas that have not been slashed / mowed by PCL previously <input type="checkbox"/> Grazing of areas that have not been grazed by PCL previously <input type="checkbox"/> All roadside grazing <input type="checkbox"/> All new landscaping works <input type="checkbox"/> All forestry operations (including ground preparation and debris removal), silvicultural or harvesting works
Legislative	<input type="checkbox"/> All works that have the potential to impact on declared threatened species or associations <input type="checkbox"/> All works requiring Nature Conservation Act licenses <input type="checkbox"/> All works requiring Dial before you Dig approval, <input type="checkbox"/> All works requiring Environmental Authorisations, <input type="checkbox"/> All works requiring Waterways Work Licenses <input type="checkbox"/> All works requiring Environmental Management Plans <input type="checkbox"/> All works requiring National Capital Authority Works Approval <input type="checkbox"/> All work on heritage sites (eg hut maintenance, work on Aboriginal art sites etc)
Aerial Operations	<input type="checkbox"/> All work involving aerial operations (including aerial spraying, baiting or culling)
Others	<input type="checkbox"/> All new erosion control works <input type="checkbox"/> All consultancy works <input type="checkbox"/> All works involving the culling or movement of native animals (except the urban wildlife program) <input type="checkbox"/> All works involving volunteers (eg CVA, Green Corp) except Park Care <input checked="" type="checkbox"/> All works where supervising Manager requests a Works Plan to be completed

Section 1. Outline

Background	<ul style="list-style-type: none">• The Lombardy Poplar is a declared pest plant in the ACT under the <i>Pest Plants and Animals Act 2005 (Pest Plants and Animals (Pest Plants) Declaration 2015)</i>.• A mature stand of Lombardy poplars (<i>Populus nigra 'Italica'</i>) was first planted as a windbreak in Tharwa Village by Leopold De Salis in the 1870's, approximately 50 metres from the bank of the Murrumbidgee River. This original windrow (pictured at <i>Figure 1</i>) is highlighted as a key cultural heritage element in the Tharwa Village Plan. Noting the limited lifespan of Lombardy Poplars, and their propensity to reproduce via 'suckers', the majority of the trees present are the offspring of the original windrow, rather than the original trees themselves.• Over time, the number of poplars has increased significantly, causing ongoing damage to the natural riverine environment and bank stability, and obscuring the original De Salis windbreak.• In 2018, as part of the preparation of the Tharwa Village Plan, community feedback was received on the value of the Murrumbidgee River to the character of the village. This highlighted the need to protect and conserve the environmental values of the river corridor.• The objective of these works is the removal of the dead standing Lombardy Poplars and related large fallen timber, to support the environmental values of the river and to restore, as close as possible, the heritage value of the original De Salis windbreak.
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Figure 1 - Aerial imagery looking southwest over Tharwa Bridge and Village, 23 October 1953. Note the single row of mature Lombardy Poplars upstream of Tharwa Bridge.



Figure 2 - Lombardy Poplars upstream of Tharwa bridge, 13 Nov 2021. Note the row of dead Poplar suckers, treated with herbicide and ready to be removed as part of this program.

Management Program	Reserve / Area	District	Territory Plan Classification	Objectives
Tharwa Lombardy Poplar Weed Management	Tharwa Special Purpose Reserve	Murrumbidgee River Corridor	NUZ4 – River Corridor Pd – Special Purpose Reserve	To remove the dead standing Lombardy Poplars and related large fallen timber to reduce negative environmental impacts, and to restore the heritage value of the original Lombardy Poplar windrow.

Section 2. Area Description

Hectares affected	Vegetation	Slope	Aspect	Land use	Sites of significance
<1 hectare	Riparian edge dominated by Lombardy Poplar suckers, including large dead and living mature trees. Other woody and herbaceous weeds and pasture grasses are present. Approximately 20 planted juvenile <i>Eucalyptus camaldulensis</i> are present along the riparian edge of the Murrumbidgee River.	0-15 degrees	Easterly	Recreation	<p>Aboriginal or European: Yes – although not formally listed, the site is closely associated with European heritage, specifically the original windbreak of Lombardy Poplars. The works will be carefully managed and confined to treatment of dead standing and fallen timber, so as not to impact the original windbreak.</p> <p>Fauna: No</p> <p>Flora: No</p> <p>Endangered species: No</p> <p>Riparian zones: Yes – EPA will be notified of the works as per Waterway Works Licence WC987.</p>

Section 3. Approvals and Clearances

District	Conservation Research	Fire Management	EPA	NCA	Heritage	Dial before you dig
Delegate approval – to be given via email and filed with this WP.	N/A	N/A	Works will be undertaken in accordance with Waterway Works Licence WC987. EPA notified of works via email on 3/3/2023.	N/A	N/A – as per above, works will not impact the heritage values of the area.	Dial Before You Dig was undertaken on 09/02/2023 (LINK). No infrastructure will be impacted by works.

ACT Planning & Development Act 2007	N/A
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Environment Protection and Biodiversity Conservation Act 1999	<p>Works will not trigger relevant clauses in the EPBC Act.</p> <ul style="list-style-type: none"> No EPBC listed flora or fauna will be impacted by proposed works. No Threatened Ecological Communities, Ramsar Wetlands, or other sites of National Environmental Significance will be impacted by proposed works.
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Section 4. Funding and Procurement

Item	Fee (ex. GST)	Budget	Procurement	Invoice sign off
Hire of 27ton excavator to control fell dead standing Lombardy Poplars within the control area (Summiitt Earthworks)	Sch 2.2(a)(xi)	MRC/IPOP	Contract: GS0125108.210 Road and Trailside Mechanical Vegetation Management Services	Oliver Orgill
Hire of Volvo 145E Excavator fitted with mulching head to mulch dead wood on ground, including felled Lombardy Poplars (Summiitt Earthworks)		MRC/IPOP	Contract: GS0125108.210 Road and Trailside Mechanical Vegetation Management Services	
Float to and from site (Summiitt Earthworks) of 27ton and 16ton		MRC/IPOP	Contract: GS0125108.210 Road and Trailside Mechanical Vegetation Management Services	
Total	\$33,125.00			

Section 5. Site Establishment Plan

Work sheds	No work sheds will be erected.
Material Storage Areas	Plant machinery will be stored securely and safely on site for duration of the works. Machinery storage location will be chosen so as not to impact the recreational use of the Tharwa 'green'.
Method of Demolition	N/A
Waste Management Procedures	Spill kits will be available on site for chemical or fuel spills – contractor responsibility

Vehicle Access	Plant and vehicles will access the work site via the locked management gate from the Tharwa Bridge recreational area carpark. Access through this gate will be provided to the contractor for the duration of the works.
Tree Protection	N/A
Verge Landscaping	N/A

Section 6. Scope of works

Tasks	Responsibility	Specification	District Input
<u>Stage 1 of Works</u>			
Impacted section of Tharwa Explorer Track will be closed to public access	PCS	Closure will involve public communications, site signage and barriers.	Local MRC Rangers, with comms team support
Control fell and mulching of dead standing Lombardy Poplars	Summiitt Earthworks	Control-fell dead standing Lombardy Poplars on river left bank of the Murrumbidgee River with 27ton excavator. Also, cut and mulch any woody weeds within control site where time permits. Delicate work on riverbank to minimise ground disturbance. No live poplars are to be treated.	PCS to provide qualified chainsaw operator and spotter to assist with control felling.
<u>Stage 2 of Works</u>			
Impacted section of Tharwa Explorer Track will be closed to public access	PCS	Closure will involve public communications, site signage and barriers.	Local MRC Rangers, with comms team support
Mulch old piles of fallen and cut timber	Summiitt Earthworks	Use of Volvo 145E Excavator fitted with mulching head to mulch old piles of fallen and cut timber within control site, with wood chip to be spread across work site. There are also several large stumps remaining on site from trees which have been felled in the past. These stumps should also be mulched. Wood chip from all mulching to be spread across worksite. No live poplars are to be treated.	PCS to provide qualified chainsaw operator and spotter to assist if needed.

Section 7. Rehabilitation of Site

Task	Responsibility
Rye corn will be spread across worksite in any areas where topsoil has been disturbed by the movement of plant machinery.	Summiitt Earthworks
Native plants will be ordered in February 2023 ready for autumn and or spring 2023 plantings.	Local MRC Rangers
Native plants will be planted in autumn and or spring 2023.	Local MRC Rangers

Section 8. Timeline

Onsite inspection	Quotes close	Selection of contractor	Works commence on site	Works completed
December 2022	February 2023	Summiitt Earthworks	Stage 1: Estimate the week of 6 March 2023	Approx. two weeks following
			Stage 2: Estimate the week of 20 March 2023	Approx. one week following

Section 9. Consultation

Community Engagement	Letterbox drop	Park Care Group/other community groups	Individual residents	Media
<p>Tharwa Explorer Trail closure – MRC will instal site closure signage and physical barriers prior to work commencement.</p> <p>Comms team to put out closure information on social media etc.</p> <p>Public Land Use team will be notified of track closure so possible event applications are managed appropriately</p>	Tharwa Village residents will receive a letterbox drop.	Discussion to be held with Outward Bound to ascertain and mitigate any impact on potentially planned OB activities.	Letterbox drop for all Tharwa residents	Comms team to put out closure information on social media etc.

Section 10. Risk Management

See below.

Section 11. Emergency Evacuation Plan

Mobile phone and TRN Rural Ops contacts	James Parker (Ranger) – [REDACTED], Parks 824 Darren Roso (Senior Ranger) - [REDACTED], Parks 804 Shelley Swain (Ranger in Charge) – [REDACTED], Parks 906
Emergency evacuation point	Tharwa Bridge Recreational Area carpark.
Ambulance procedures	<ul style="list-style-type: none"> ▪ Call 000 ▪ Ask for the ACT Ambulance Service ▪ Tell the operator the nearest suburb and location details of Emergency Evacuation Point ▪ Tell the operator the nature of the injury ▪ Provide any contact details that could be helpful (eg. Your phone number, radio frequency, details for PCS Supervising Officer)

Section 12: Risk assessment

- HIGH, MEDIUM and LOW risk ratings are a subjective assessment based on 'Likelihood' and 'Consequence'. High risks will require more careful consideration of risk control actions.

High risk – Senior management attention (or advice to senior management) may be required.

Medium risk – Management or supervisory responsibility needs to be specified for this element.

Low risk – This element can be managed by routine procedures.

A. ENVIRONMENTAL IMPACTS

ELEMENT	YES	N/A	NO	RISK RATING	COMMENT/CONTROL
---------	-----	-----	----	-------------	-----------------

				HIGH	MED	LOW	
1. Are there declared threatened species (either by the NCA or the EPBC Act) in the area impacted by the works?			X			X	Arcgis layer checked.
2. Do the works have the potential to cause erosion or sedimentation?	X					X	Operator/s will carefully undertake works to minimise any disturbance of ground or direct river edge.
3. Will the works affect stormwater drainage?			X			X	None present.
4. Do the works require fill or other material to be brought on site?			X			X	
5. Do the works involve the removal of dead mature trees or live trees with dbh>20cm?	X					X	Dead trees to be removed and mulched are invasive weeds declared under the PPA Act.
6. Are the works within 5 metres of a waterway?	X					X	Operator/s will carefully undertake works to minimise any disturbance of ground or direct river edge.
7. Will the works exceed legislated air quality standards?			X			X	
8. Will the works exceed legislated noise emission standards?			X			X	
9. Do the works require the removal of ground cover?			X			X	Operator/s will carefully undertake works to minimise any disturbance of ground or direct river edge.
10. Do the works involve excavation?			X			X	
11. Do the works involve the use of chemicals?			X			X	
12. Do the works involve the use of plant and machinery?	X					x	Operator/s are skilled in the use of heavy plant and machinery in environmentally sensitive areas.
13. Do the works require the stockpiling of materials on site?			X			X	
14. Do the works require the storage of fuel on site?			X			X	
15. Do the works involve the use of any machinery, tools or plant that may emit a spark?	X					X	Works will cease on notification by PCS Fire Management Unit, or as otherwise negotiated with project manager.
16. Do the works involve any landscaping or the use of any live plant material?	X					X	Rye corn will be spread onsite to assist in stabilisation of work site. Local native plant species will be planted

							in autumn and or spring 2023 for rehabilitation and stabilisation of site.
17. Do the works involve the use of vehicles or plant off the trail network?	X					X	Operator/s are skilled in the use of heavy plant and machinery in environmentally sensitive areas. Operator/s will carefully undertake works to minimise any disturbance of ground or direct river edge.
18. Will the works generate any waste material?			X			X	
19. Do the works involve the use of any natural resources found on site (eg timber, rock, water)	X					X	Dead fallen plant materials will be mulched onsite to be used for ground cover stabilisation.
20. Are there any weather restrictions associated with these works?	X					X	Works may cease for inclement weather conditions such as light rain (for manual chainsaw use), heavy rain (plant use), high winds, and sodden ground from previous weather events.
21. Are there provisions for dealing with wildlife that may be injured by these works?	X					X	Contractor/s to contact MRC project manager.
22. Does the project trigger Schedule 4 of the <i>Planning & Development Act 2007</i> ?			X			X	

B. HERITAGE IMPACTS

ELEMENT	YES	N/A	NO	RISK RATING			COMMENT/CONTROL
				HIGH	MED	LOW	
23. Are there any known heritage sites in the area impacted on by the works?			X			X	Although not formally listed, the site is closely associated with European heritage, specifically the original windrow of Lombardy Poplars. The works will be carefully managed and confined to treatment of dead standing and fallen timber, so as not to impact the original windrow.
24. Do the works involve work on sites listed on the Heritage register (eg huts, Aboriginal art sites)			X			X	
25. Will a cultural heritage survey be undertaken prior to the commencement of works			X			X	

C. WORK STANDARDS

ELEMENT	YES	N/A	NO	RISK RATING			COMMENT/CONTROL
				HIGH	MED	LOW	
26. Is there a written <i>scope of works</i> ?	X					X	As per this WP
27. Are there maps and/or drawings for these works	X					X	As per this WP
28. Is there an agreed timetable for these works	X					X	By negotiation with contractor and specified in this WP
29. Is there a specified level of supervision for these works?	X					X	Daily site visit by project supervisor, and more frequently if required.
30. Have all parties involved in the works nominated contact officers for the works?	X					X	As per this WP
31. Is there an agreed protocol for reporting on safety issues associated with the works?	X					X	Internal contractor protocols. Contractor to communicate any safety concerns to project supervisor for PCS protocols to be followed.
32. Has the PPE requirements for these works been specified?	X				X		Contractor responsibility. In addition, MRC staff involved in manual felling off trees are to wear PPE in accordance with PCS SOPs.
33. Is there a requirement for a first aid kit to be kept at the work site?	X					X	Contractor responsibility. In addition, MRC staff involved in manual felling of trees will retain one on site.
34. Is there a requirement for a trained First Aider to be present at the work site?	X					X	Contractor responsibility. In addition, MRC staff involved in manual felling of trees will have current first aid qualification.
35. Does the contractor have the required insurances to undertake these lists (public liability, workers compensation, professional indemnity, comprehensive insurance for all plant and vehicles)?	X					X	Required for panel contract.
36. Do all staff/contractors have the required competencies, certificates or licenses to undertake these works?	X					X	Required for panel contract.
37. Is an Emergency Medical Evacuation Plan required for these works	X					X	As per this WP

38. Is there an agreed protocol for dealing with public complaints associated with these works?	X					X	To be directed to project supervisor
---	---	--	--	--	--	---	--------------------------------------

D. PLANT & EQUIPMENT USE

ELEMENT	YES	N/A	NO	RISK RATING			COMMENT/CONTROL
				HIGH	MED	LOW	
39. Is the plant that will be used in these works in good working order	X					X	Contractor responsibility
40. Is there a requirement for this plant to have warning lights			X			X	Contractor option
41. Is there a requirement for this plant to carry spill kits	X					X	Contractor responsibility
42. Is there a requirement for this plant to be fitted with additional fire suppression equipment (eg extinguishers, back packs etc)	X					X	Contractor responsibility – works taking place during fire season
43. Is there a requirement for this plant to be fitted with communication equipment (eg radios mobile phone)	X					X	Limited mobile phone reception. Contractor to use TRN Rural Ops where necessary.
44. Is there a requirement for this plant to complete a daily start up check list	X					X	Contractor responsibility
45. Will the plant and equipment used in these works be left on the work site overnight	X					X	Contractor responsibility
46. Are arrangements in place for repairing plant in the event of a breakdown	X					X	Contractor responsibility
47. Are there any hazards associated with the terrain in which this plant will be working (eg steep, rocky, creek banks, hidden warrens etc)	X					X	Contractor responsibility to check site for hazards prior to commencement of work
48. Could there be any buried infrastructure in the area in which the plant will be working			X			X	Dial Before You Dig undertaken
49. Is there any existing infrastructure on site that may be damaged by plant working (eg signs, trail markers, fences etc)	X					X	Two pump housing stations are nearby to the site – avoidance of these is contractor responsibility
50. Have plant and machinery exclusion zones been identified		X					

E. PUBLIC SAFETY

ELEMENT	YES	N/A	NO	RISK RATING			COMMENT/CONTROL
				HIGH	MED	LOW	
51. Is there a requirement for a Site Safety Plan			X			X	
52. Will the public be excluded from the work site	X					X	Signage and barriers – PCS and contractor responsibility
53. Will warning signage be required for entry points associated with the work area	X					X	Tree falling signs, workman ahead signs, as relevant. Contractor responsibility.
54. Will adjacent residents be informed of the works	X					X	As per this WP
55. Will rural lessees or agistment licensees be informed of the works	X					X	As per this WP
56. Are there any Events Approvals relevant to the works area			X			X	
57. Are you aware of any works scheduled by other agencies that may coincide with these works			X			X	

Risk Management Checklist prepared by: J Parker and S Swain

Date: 09/02/2023

Section 13: Site Mapping

Lombardy Poplar Weed Management 2023
Tharwa Bridge recreational area



	Lombardy Poplar control area		Tanker
	Woody debris mulching area		Light Unit
	MRC Track Closure Signs and Barriers		Walking Track
	Articulated Float		Dormant
	Rigid Float		Undetermined



Contractor Induction Checklist

Item	Completed	N/A
Works plan brief	<input type="checkbox"/>	<input type="checkbox"/>
PCS WHS Policies	<input type="checkbox"/>	<input type="checkbox"/>
PCS RED Framework	<input type="checkbox"/>	<input type="checkbox"/>
Project risk assessment	<input type="checkbox"/>	<input type="checkbox"/>
Check insurances <ul style="list-style-type: none"> - Public liability (>\$10 million), and - Professional Indemnity (>\$10 million), or - Product liability (>\$10 million) 	<input type="checkbox"/>	<input type="checkbox"/>
Safe Work Method Statements	<input type="checkbox"/>	<input type="checkbox"/>
Check for required authorisations, training and equipment familiarity	<input type="checkbox"/>	<input type="checkbox"/>
Hazard / incident reporting procedures	<input type="checkbox"/>	<input type="checkbox"/>
Communications <ul style="list-style-type: none"> - Radio issues and / or phone numbers exchanged - PCS contact person (s) - Sign in / sign out expectations - On-site inspections 	<input type="checkbox"/>	<input type="checkbox"/>
Access arrangements <ul style="list-style-type: none"> - Keys required/issued - Areas permitted identified - Maps provided / available 	<input type="checkbox"/>	<input type="checkbox"/>
Site management/Rehabilitation <ul style="list-style-type: none"> - Contractors / staff advised of ground disturbance potential and notification/restoration requirements provided / available 	<input type="checkbox"/>	<input type="checkbox"/>
Traffic management requirements	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle / Equipment hygiene expectations	<input type="checkbox"/>	<input type="checkbox"/>
Dealing with public enquiries	<input type="checkbox"/>	<input type="checkbox"/>
Fire Danger and Fire Ban procedures	<input type="checkbox"/>	<input type="checkbox"/>
Adverse weather procedures	<input type="checkbox"/>	<input type="checkbox"/>
Project completion	<input type="checkbox"/>	<input type="checkbox"/>

Signed:

/ /

PCS Project Supervisor

/ /

Contractor

Notice of works

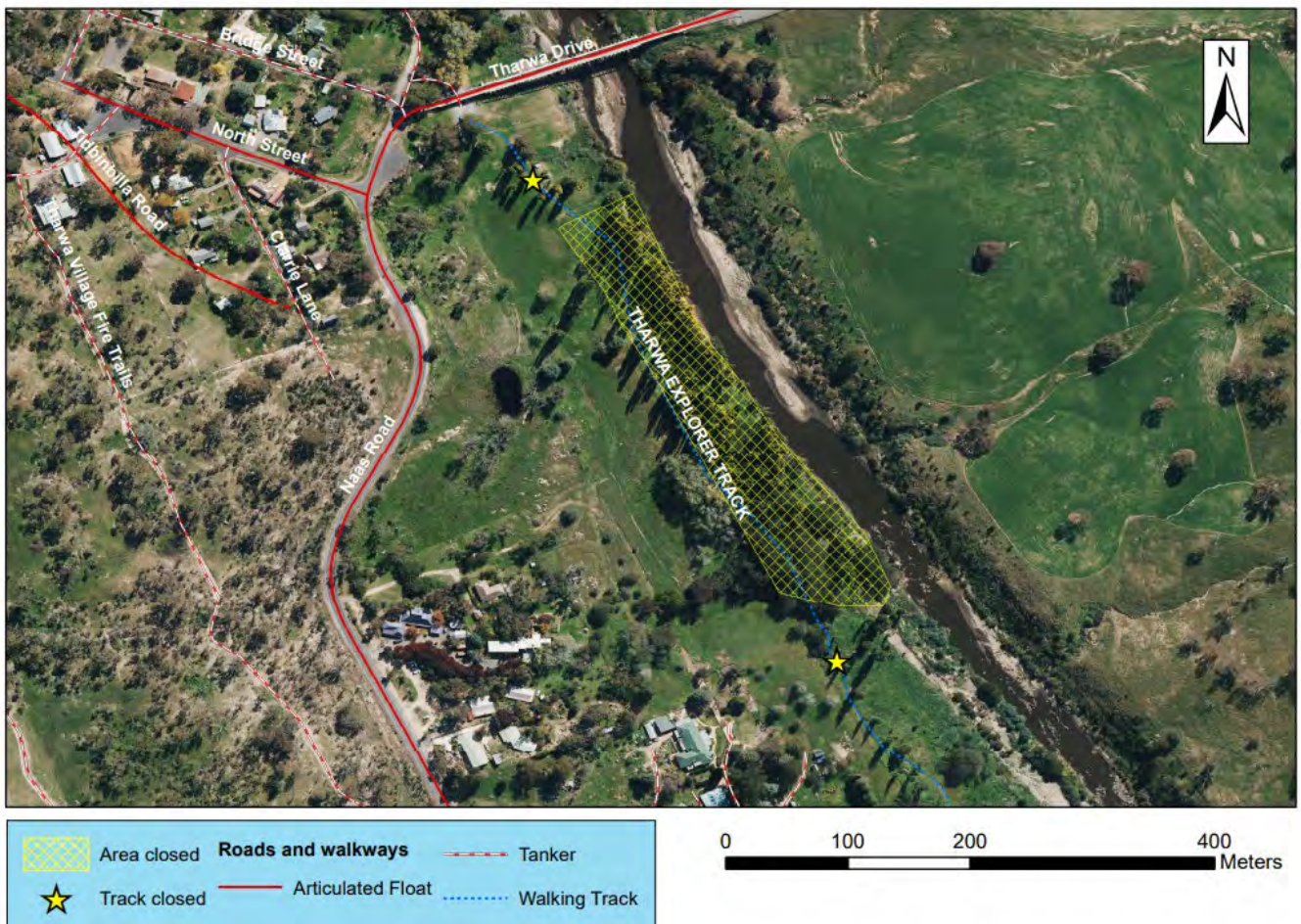
ACT Parks and Conservation Service will be undertaking the removal of dead standing Lombardy Poplars and fallen timber alongside the Tharwa Explorer Track. Works commence 8 March 2023 and are expected to take two or more weeks. Heavy plant and machinery will be used.

For public safety during this time, the Tharwa Explorer Track will be closed between Tharwa Bridge Recreation Area and upstream to the boundary of Gigerline Nature Reserve. Please refer to the below map.

For any further inquiries, please contact the Murrumbidgee River Corridor Depot on 6207 1808.



Works Area



From: Roso, Darren
Sent: Tuesday, 7 March 2023 11:29 AM
To: [REDACTED]
Cc: Swain, Shelley
Subject: Poplar Management

Importance: High

Categories: Planning

OFFICIAL

Hey [REDACTED]
'Just spoke to my supervisor.
Shelley would like your points in email please including Leadership Course Arrangements.

In short I understand: Cut and paste these if I've got it right.

1

Short notice. We need to give 2 weeks' notice for a closure.

2

Poplar management

Herbicide translocating from Sucker to sucker to Original and replacement plantings.

3

Requirement for Fire Leadership course to use DeSalis trail.

4

Weed management

Regards

regards

Darren Roso

Senior Ranger

ACT Parks and Conservation.

Murrumbidgee Depot

1541 Cotter Road ACT 2611

Ph. [REDACTED]

Email : darren.roso@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.

"Nations may battle and the world rocked by revolution, but the Land will care for those who care for it."
(The standing committee on Californian Canals 1930's)

From: [REDACTED]
Sent: Tuesday, 7 March 2023 2:18 PM
To: Swain, Shelley
Subject: Re: Lack of notice for works in Tharwa

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Planning

You don't often get email from [REDACTED]. [Learn why this is important](#)

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Shelley

The following will be either walking along the trail or affected by the noise

We have a master class running all this week

Hosting a visit by Senator Urquhart on Friday

Six courses this long weekend

We have a leadership group from 9 - 15 that will walk along the areas as well as having meetings during the day in a Rural retreat

Campers staying the entire time as well as people staying the homestead

Seven programs 17-19

Bushfire leadership program 19-24

4 programs 24-26

The 16 of March us the only day we do not have a group affected.

Outward Bound has a significant number of courses over this time with daily use if the walking track.

Covid has hit our small business hard and we are working to try and catch up business. This will have a negative effect on our business. A key part of why people stay with us is the quiet rural setting and access to the river reserve.

Regards

[REDACTED]

On Tue, 7 Mar 2023, 1:35 pm Swain, Shelley, <Shelley.Swain@act.gov.au> wrote:

OFFICIAL

Hi [REDACTED]

I am sorry for your concerns regarding the work.

Can you please provide the dates you have planned activities on the trail?

Thank you

Shelley Swain | Ranger in Charge - Murrumbidgee

Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au

ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: [REDACTED]
Sent: Tuesday, 7 March 2023 1:24 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Subject: Lack of notice for works in Tharwa

You don't often get email from [REDACTED]. [Learn why this is important](#)

Caution: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe. [Learn why this is important](#)

Shelly

I have been informed this morning about tomorrow's closure for the removal of the dead poplars. I own the Cuppacumalong property which will be most affected by the closure.

This is going to have a significant impact on my business over the next two weeks and it hasn't given me any time to make alternate arrangements. We have a number of programs scheduled over the period that were planned to walk through the area, We also have a number of conferences and meetings that will be affected by the noise. This includes a Bushfire Recovery Leadership program with members of your team attending.

I can't see why we were not given sufficient notice about the work proceeding. A minimum of two weeks notice is not unreasonable to ask for an area of such heavy use. Darren mentioned that I hadn't given him notice that I was intending to use the area. I explained that I had no requirement to do this as it is public land and has an expectation of freedom of use. And I was completely unaware such major work was being planned.

I understand that the trees are being removed because of safety concerns. I have my own reservations and concerns about the initial poisoning of the trees done without consultation of the local community. I know a number of locals were upset at the poisonings. Darrens justification about the affected trees being suckers does not sit well with me. I can't see how poisoning the suckers will not affect the original host trees. As a long term resident and landowner I am concerned about the management of this part of the river. We have a number of historically significant trees, part of the original Cuppacumbalong Homestead, that have been mis-managed by the parks staff, causing damage and death.

Talking with my neighbours a number of them are concerned at the short notice. The Outward Bound School has one of their busiest times of the year leading up to Easter. They use the deSalis trail as a safe way for the groups to move to the North.

I am asking for an immediate postponement of the works to allow us to make appropriate arrangements so our business is not impacted.

I would like to have a meeting with you to convey my concerns about the management of the area.

Regards



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From: Parker, James
Sent: Wednesday, 8 March 2023 8:41 AM
To: Environment Protection
Cc: Swain, Shelley
Subject: Notification of Works - Tharwa Bridge Recreation Area
Attachments: WC987_EP advice of intended waterway works - Tharwa Poplar removal (A40773179).docx

Follow Up Flag: Follow up
Flag Status: Flagged

OFFICIAL

Hi,

We will be undertaking some works near to waterways at Tharwa Bridge Recreation Area along a section of the Murrumbidgee River edge.

Attached is the advice of intended waterway works for your consideration.

Cheers,

James Parker

Gigerline Ranger
ACT Parks and Conservation.
Murrumbidgee River Corridor Depot
1541 Cotter Road ACT 2611

Ph. [REDACTED]

Email: james.parker@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.



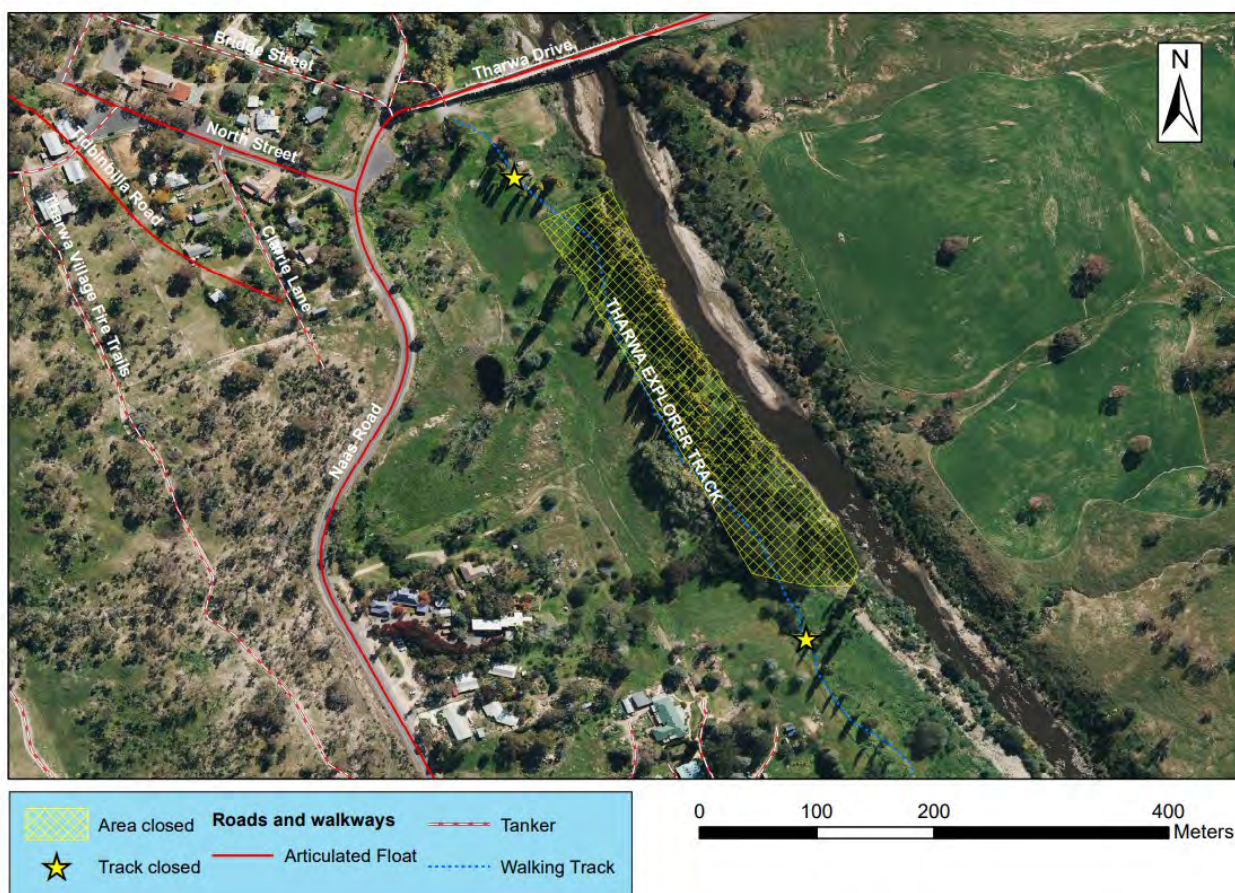
To: Environment Protection Authority
environment.protection@act.gov.au

Ref: **Waterway Work Licence WC987 – Murrumbidgee Corridor**
Advice to the Environment Protection Authority of works occurring under WC987

PCS Contact: Shelley Swain, Ranger in Charge Murrumbidgee River Corridor
Phone: [REDACTED]; 6207 1808;
email: Shelley.Swain@act.gov.au

Location: Tharwa Bridge Recreation Area – Special Purpose Reserve

Works Area



Timing: Works will be undertaken between 8/3/2023 and 18/3/2023.

Method:

A 27-tonne excavator will work on the riverbank to control fell dead standing Lombardy Poplars. Felled timber will then be mulched and spread on-site. Works will occur at least 10 metres from the edge banks of the Murrumbidgee River.

There will be negligible impact to the surrounding surfaces. Contractor will spread rye corn on ground where any topsoil has been disturbed by excavator to encourage regrowth and stabilisation of earth.

Environmental controls: An internal PCS Works Plan has been prepared and approved by the Area Manager Murrumbidgee River Corridor. This Works Plan includes a detailed Risk Assessment that addresses environmental risks and controls.

TAX INVOICE

ACT Parks and Conservation Service

Invoice Date
08 Mar 2023

Invoice Number
INV-1958

Reference/Purchase Order
Tharwa Bridge Poplars

ABN
30 154 052 169

Summiitt Earth Works Pty Ltd
PO Box 4929
KINGSTON ACT 2604
AUSTRALIA

e-mail:
accounts@summiitt.com

Description	Quantity	Unit Price	GST	Amount AUD
ECR235 Excavator, Control felling of poplars 8/3 6 9/3 9	15.00	Sch 2.2(a)(xi)	10%	Sch 2.2(a)(xi)
Sub Contract Float, Float from site	1.00		10%	
			Subtotal	3,795.45
			Total GST 10%	379.55
			Invoice Total AUD	4,175.00
			Total Net Payments AUD	0.00
			Amount Due AUD	4,175.00

Bank Details:
Summiitt Earthworks Pty Ltd

Due Date: 31 Mar 2023

PAYMENT ADVICE

To: Summiitt Earth Works Pty Ltd
PO Box 4929
KINGSTON ACT 2604
AUSTRALIA

Customer ACT Parks and Conservation Service

Invoice Number INV-1958

Amount Due 4,175.00

Due Date 31 Mar 2023

Amount Enclosed

Enter the amount you are paying above

From: Swain, Shelley
Sent: Wednesday, 15 March 2023 8:56 AM
To: [REDACTED] Parker, James
Subject: Re: Tharwa mulching

Hi [REDACTED]
Yes please, tomorrow 0830 will be good. See you then.
Shell

Get [Outlook for iOS](#)

From: [REDACTED]
Sent: Wednesday, March 15, 2023 7:32:17 AM
To: Parker, James <James.Parker@act.gov.au>; Swain, Shelley <Shelley.Swain@act.gov.au>
Subject: Tharwa mulching

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Hi Shelley,
James mentioned that you wanted to have another look at the remaining work at Tharwa?
We are moving the 25t machine out of there tomorrow and chris (who will do the job) will be available from 830 if you wanted to meet?

Best regards,

[REDACTED]
Summitt earthworks
Dig It,Move It,Drill it,You name It.

From: Swain, Shelley
Sent: Wednesday, 15 March 2023 6:14 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Aerial photo

OFFICIAL

Hi [REDACTED]

The next machine coming will work to get them smaller, although I'm not sure exactly how small they'll end up.

As I understand you have a free calendar tomorrow, some of my crew will do some chainsaw work on the woody weeds on either side of your place but mostly upstream. We'll remove the plum and entanglement of weeds on the large log in front of your fence and thin some of the other veg to make it tidy. We'll also likely fall the large dead standing trees on the riverbank opposite Cuppa. These things will get cleaned up by the mulching machine when it arrives.

Give me a call or an email if you have any questions. I expect the team will commence around 9am or a little later.

Thanks

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: [REDACTED]
Sent: Friday, 10 March 2023 2:46 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Cc: [REDACTED]
Subject: Re: Aerial photo

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So is that how they will remain or does another machine break them down further?

On Fri, 10 Mar 2023, 1:16 pm Swain, Shelley, <Shelley.Swain@act.gov.au> wrote:

OFFICIAL

Hi [REDACTED]

Thanks for the pics. I am assured those logs are the tips of trees that broke into the water at the time of removal, which there were only a few of. Apparently nothing that enjoyed an overnight escape!

The excavator rolled over the logs to firmly press them into the bank. Of course, water is an all-powerful force and not to be underestimated. If there are issues with movement, we'll need to reassess the site. Please do let me know if more concerns arise for you, but we'll be keeping a close eye on the site also.

Thanks re CMP 😊

Shelley Swain | Ranger in Charge - Murrumbidgee

Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au

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GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: [REDACTED] >
Sent: Friday, 10 March 2023 12:39 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Cc: [REDACTED] >
Subject: Re: Aerial photo

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Hey

No current CMP. We have to rewrite it after the feedback from heritage.

I have attached a couple of photos of escaped logs!!! Hopefully the idea of leaving them in situ doesn't result in big log jams downstream. Like the last two years at Point Hut bridge.

Out of scope





From: Swain, Shelley
Sent: Monday, 20 March 2023 4:20 PM
To: Beitzel, Matthew
Subject: RE: Tharwa poplars removal near the bridge

UNOFFICIAL

Ah cool. So much fun 😊

I'm sure there'll be no overlap with our works.

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Beitzel, Matthew <Matthew.Beitzel@act.gov.au>
Sent: Monday, 20 March 2023 4:06 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Subject: RE: Tharwa poplars removal near the bridge

UNOFFICIAL

We will be habitat mapping and then electrofishing the area directly upstream of the bridge and down to the lower ELJs. We will probably be habitat mapping Wednesday Thursday this week (walking in the river and driving the little boat about. Then efishing boat and backpack next week or the week after. It will take us about 2-3 days I guess.

Matt

From: Swain, Shelley <Shelley.Swain@act.gov.au>
Sent: Monday, 20 March 2023 4:00 PM
To: Beitzel, Matthew <Matthew.Beitzel@act.gov.au>
Subject: RE: Tharwa poplars removal near the bridge

UNOFFICIAL

Hi Matt

Thanks for touching base. Whereabouts will you be and what type of work?

It'll be a couple of weeks until we're back there. We've a bit more to do at that site then will be working upstream falling and mulching dead and live woody weeds. We'll have smaller machines in.

Cheers

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Beitzel, Matthew <Matthew.Beitzel@act.gov.au>

Sent: Monday, 20 March 2023 3:42 PM

To: Swain, Shelley <Shelley.Swain@act.gov.au>

Subject: Tharwa poplars removal near the bridge

UNOFFICIAL

Hi Shelley

I noticed last week that there were excavators working on the poplars near the tharwas water pump. We are about to do some work in the area and have site next to that bit of the river. Will we get in anyones way?

Matt

Matt Beitzel | Aquatic Ecologist| Conservation Research

Environment, Planning & Sustainable Development Directorate (EPSDD) | ACT Government

480 Northbourne Avenue, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601

Phone: 02 62056755 **Email:** matthew.beitzel@act.gov.au

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EPSDD Science Platform

Your one stop hub for EPSDD science related content.

From: Swain, Shelley
Sent: Friday, 31 March 2023 9:11 AM
To: [REDACTED]
Subject: RE: Next Tharwa works

OFFICIAL

Morning [REDACTED]

No drama with the biggies, as long as we get a pile of notice in advance the neighbours will just have to cope. And if it doesn't happen, you know me, we can work to my usual schedule of eighteen months 😊

If we can grab the posi mulcher for a couple of days we could do heaps upstream. All the dense stands of elms, plums, briar etc.

Thoughts?

Thanks

Shelley Swain | A/g Area Manager - Murrumbidgee
Phone: [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: [REDACTED] >
Sent: Thursday, 30 March 2023 5:34 AM
To: Swain, Shelley <Shelley.Swain@act.gov.au>
Subject: RE: Next Tharwa works

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Hi Shelley,

Sorry for the delay in getting back to you. Unfortunately we have all of our mulchers tied up with pre HR burn preps for both ACT and NSW..we have also lost time now with this wet weather. The only thing I do have is a positrack mulcher if that is any help?
Sorry once again but its likely our machines will be tied up for a few weeks yet.

Best Regards,

[REDACTED]

Summiitt Earthworks
Forestry-Fire Management

From: [Swain, Shelley](#)
Sent: Tuesday, 28 March 2023 3:27 PM

To: [REDACTED]
Subject: FW: Next Tharwa works

OFFICIAL

Sorry [REDACTED] me again...

Shelley Swain | A/g Area Manager - Murrumbidgee
Phone: [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Swain, Shelley
Sent: Friday, 24 March 2023 7:03 PM
To: [REDACTED]
Cc: Parker, James <James.Parker@act.gov.au>
Subject: Next Tharwa works

OFFICIAL

Hi [REDACTED]

Wondering if it's possible to squeeze in the mulching stage of the Tharwa works into the first two weeks of April?
Coming up quickly sorry.

Our neighbours on the track said that'll cause least impact to their businesses. Pretty fair I think!

If you have time to give me a call over the weekend or next week that'd be great.

Thanks 😊

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: 6207 1808 or [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
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From: Roso, Darren
Sent: Tuesday, 3 October 2023 2:35 PM
To: Swain, Shelley; Orgill, Oliver
Subject: RE: 2 high risk trees. Est \$2K.

OFFICIAL

Some, but not of the same priority as these.
There are some in the Tharwa rec area though.
Ill have a look and get approval for the high to moderates.

cheers

Darren Roso
Senior Ranger
ACT Parks and Conservation.
Murrumbidgee Depot
1541 Cotter Road ACT 2611
Ph. [REDACTED]
Email : darren.roso@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.

“Nations may battle and the world rocked by revolution, but the Land will care for those who care for it.”
(The standing committee on Californian Canals 1930’s)

From: Swain, Shelley <Shelley.Swain@act.gov.au>
Sent: Tuesday, October 3, 2023 1:02 PM
To: Roso, Darren <Darren.Roso@act.gov.au>; Orgill, Oliver <Oliver.Orgill@act.gov.au>
Subject: RE: 2 high risk trees. Est \$2K.

OFFICIAL

Thanks Daz. Are there some high-priority dead elms and poplars along the De Salis track tat also require removal?

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Roso, Darren <Darren.Roso@act.gov.au>
Sent: Tuesday, 3 October 2023 12:20 PM
To: Swain, Shelley <Shelley.Swain@act.gov.au>; Orgill, Oliver <Oliver.Orgill@act.gov.au>
Subject: 2 high risk trees. Est \$2K.
Importance: High

OFFICIAL

Yuma Shell and Olli

These 2 Yellow box trees are near buildings and carparks of the Outward bound Tharwa Base.

They are not assessed in our latest round but would classified very high priority and as needing cutting over by arborists.

They don't need urgent works such as isolation/taping off/falling as they are structurally very good, but people have to park and drive slowly under them.

I recommend scheduling them asap with one of our contractors for cutting over/habitating. The mulch will be used locally around the same very trees to help isolate them.

I *would* package them up with other high priority trees like the Big Nelly/McKeachnie Poplar at Tharwa bridge, but that would delay timely action due to Availability of a 35- 40m tower needed for Tharwa.

Please consider ASAP

Yimaba

Darren Roso

Senior Ranger

ACT Parks and Conservation.

Murrumbidgee Depot

1541 Cotter Road ACT 2611

Ph. [REDACTED]

Email : darren.roso@act.gov.au

I acknowledge and pay my respects to Elders and Traditional Custodians of this land, both past and present, and acknowledge their continuing cultures and connection to Country.

“Nations may battle and the world rocked by revolution, but the Land will care for those who care for it.”
(The standing committee on Californian Canals 1930's)

From: Darren Roso <parkranger804.1@gmail.com>

Sent: Tuesday, October 3, 2023 9:21 AM

To: Roso, Darren <Darren.Roso@act.gov.au>

Subject:

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From: Swain, Shelley
Sent: Friday, 1 December 2023 11:07 AM
To: Hogan, Lisa
Cc: Roso, Darren
Subject: RE: Tharwa Flyer for tree works DEC 2023

OFFICIAL

Thanks Lisa, really appreciate your help!

Shelley Swain | Ranger in Charge - Murrumbidgee
Phone: [REDACTED] | Email: Shelley.Swain@act.gov.au
ACT Parks and Conservation Service | Environment, Planning and Sustainable Development Directorate | **ACT Government**
1541 Cotter Rd, Casuarina Sands ACT 2611
GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

From: Hogan, Lisa <Lisa.Hogan@act.gov.au>
Sent: Friday, December 1, 2023 11:00 AM
To: Roso, Darren <Darren.Roso@act.gov.au>; [REDACTED] >
Cc: Parker, James <James.Parker@act.gov.au>; Wise, David <David.Wise@act.gov.au>; Swain, Shelley <Shelley.Swain@act.gov.au>; Meredith, Jason <Jason.Meredith@act.gov.au>
Subject: RE: Tharwa Flyer for tree works DEC 2023

OFFICIAL

Hi Darren

Thanks, important to make sure the Community know so they don't panic!

I will print a few off for the post boxes in the General Store – there a few people without Facebook.

Thanks
Lisa

From: Roso, Darren <Darren.Roso@act.gov.au>
Sent: Friday, December 1, 2023 10:18 AM
To: Hogan, Lisa <Lisa.Hogan@act.gov.au>; [REDACTED] >
Cc: Parker, James <James.Parker@act.gov.au>; Wise, David <David.Wise@act.gov.au>; Swain, Shelley <Shelley.Swain@act.gov.au>; Meredith, Jason <Jason.Meredith@act.gov.au>
Subject: Tharwa Flyer for tree works DEC 2023

Yuma Lisa and [REDACTED]
Nice rain.
Please find attached a flyer for the Tharwa Community Face book page.
Works are scheduled for Monday the 11th of Dec. weather dependant of course.

We will put an A3 copy up at the shop on the WE.
As the flyer says call me if any questions.

Yimaba
Darren

Trees are special. But this one is *very* special.

This giant old Murray River Red Gum (*Eucalyptus camaldulensis*) recently died. But it is home to many species of wildlife. Many people come here to enjoy it.

It is being managed very carefully so it can continue to perform this important role.

Please enjoy.



For information call Ph. 62072425