



CULTURAL
HERITAGE
MANAGEMENT
AUSTRALIA

Twamley Dam and Delivery Pipeline Project

Aboriginal Heritage Assessment

Final Draft Report

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CLIENT NAME : Glamorgan Spring Bay Council 30.1.2017

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Executive Summary

Project Background

The Glamorgan Spring Bay Council are proposing to construct a dam and associated water transfer and delivery pipeline near Orford, on the East Coast of Tasmania. The proposed water scheme is designed to secure water for the TASSAL operations at Louisville Point, as well as for an adjacent golf course development proposal at Louisville Point.

A potential dam site has been identified on the Tea Tree Rivulet, upstream of the existing Taswater Dam in Paradise Gorge on the Prosser River. The proposed dam site is known as the Twamley Dam.

It is intended to deliver flows from the Tea Tree Dam to the Taswater holding Dam in Paradise Gorge by a run of river scheme. This will involve releasing flows of water down the existing water course of the Tea Tree Rivulet (a total distance of 16km). No pipelines or associated infrastructure will be required to be installed for the river run transfer system.

From the Taswater Dam an extraction license will be required to re-take the water and to pump it to the Louisville Peninsula. The proposed route for the delivery pipeline from the existing TasWater Prosser River dam through to the Louisville Peninsula, and then on to the TASSAL site is approximately 7km.

Figure 1 shows the location of the proposed Twamley Dam site, the alignment of the river run water transfer scheme and the delivery pipeline corridor. Figure 2 shows the proposed footprint of the Twamley Dam site, with Figure 3 providing a more detailed map of the proposed delivery pipeline corridor.

CHMA Pty and Ltd and Rocky Sainty (Aboriginal Heritage Officer) have been engaged to undertake an Aboriginal heritage assessment for this project. This report presents the findings of the Aboriginal heritage assessment. It should be noted that the Aboriginal heritage assessment has been primarily focused on the proposed Twamley Dam site and the delivery pipeline corridor. The river run water transfer scheme between the Twamley Dam site and the existing TasWater Dam on the Prosser River has been excluded from the survey assessment, because there is no proposed infrastructure to be installed along this 16km length. This is discussed in more detail in section 1.4 of this report.

Registered Aboriginal Sites in the Vicinity of the Study Area

As part of Stage 1 of the present assessment a search was carried out of Aboriginal Heritage Register (AHR) to determine the extent of registered Aboriginal heritage sites within and in the general vicinity of the study area (search results provided on the 21-12-2016 by Adam Marshall from AHT).

The search results show that there are no registered Aboriginal heritage sites located either within or in the immediate vicinity of the proposed Twamley Dam footprint. The

closest registered site is AH10319, which is situated around 1km to the north-east of the dam footprint. The site is classified as an isolated artefact.

There are also no registered Aboriginal sites that are located within the proposed delivery pipeline corridor, between the existing Prosser River dam and Louisville Peninsula. There are two registered Aboriginal sites that are situated within 100m of the pipeline corridor (sites AH24 and AH10184).

The AHR search also shows that there are another 62 registered Aboriginal sites that are located within a 1km radius of the proposed river run transfer scheme, between the proposed Twamley Dam footprint and the existing TasWater Dam on the Prosser River. All but one of these sites are classified as either Artefact scatters or Isolated artefacts. The remaining site (AH5533) is classified as an Aboriginal stone quarry.

The detailed results of the AHR search are presented in section 4.4 of this report.

Results of the Field Survey

The field survey was undertaken over a period of two days (7-1-2017 and 8-1-2017) by Stuart Huys (CHMA archaeologist) and Rocky Sainty (Aboriginal Heritage Officer). David Burt, who is coordinating the design and approvals component of the project also accompanied the field team on the survey of the delivery pipeline corridor. The field survey was focused on the proposed Twamley dam footprint and the delivery pipeline corridor route from the existing TasWater Prosser River dam through to the Louisville Peninsula.

The survey resulted in the identification of five Aboriginal sites. Two of the Aboriginal heritage sites were identified during the field survey assessment of the Twamley dam footprint (sites AH13275 and AH13276). Both sites are classified as isolated artefacts, and are located within the dam footprint.

The remaining three sites were recorded during the survey of the Delivery pipeline corridor (sites AH13277, AH13278 and AH13279). All three sites are classified as Shell middens, and are situated just outside the pipeline corridor.

Table i provides the summary details for the five sites, with Figures i and ii showing the site locations. The detailed descriptions for each of the five sites are presented in Appendix 2.

The field team were able to confirm that there are no Aboriginal rock shelter sites or Aboriginal stone quarry sites that are located either within or in the immediate vicinity of the dam and delivery pipeline corridor.

The detailed results and discussions of the field survey are presented in section 7 of this report.

Table i: Summary details for the Aboriginal sites recorded during the survey of the Twamley Dam footprint and the Delivery Pipeline Corridor

AH No.	Grid Reference (GDA 94)	Site Type	Site Description
AH13275	E564533 N5276609	Isolated artefact	<p>The site is located in the southern portion of the Tea Tree Rivulet Valley. The artefact is located on the basal west side slopes of Tommys Sugarloaf, around 80m to the east of the Tea Tree Rivulet. It is on a section of graded vehicle track that runs parallel to and on the east side of the rivulet. Where the artefact is located, the vehicle track traverses across the generally level summit of a small knoll that sits above the rivulet.</p> <p>Artefact details</p> <ul style="list-style-type: none"> - Grey chert flake 46mm x 33mm x 7mm (usewear along one lateral margins)
AH13276	E564490 N5277047	Isolated artefact	<p>The site is located in the southern portion of the Tea Tree Rivulet Valley. The artefact is located on the basal east side slopes of Charlies Hill, around 100m to the west of the Tea Tree Rivulet. The slope gradient where the site is located has decreased to around 1-2°, forming a benched generally level and well drained area close to the Rivulet margins.</p> <p>Artefact details</p> <ul style="list-style-type: none"> - Grey chert flake 64mm x 47mm x 18mm (usewear along two lateral margins)
AH13277	- E570972 N5287929 - E570972 N5287927 - E570983 N5287931 - E570984 N5287928	Shell midden	<p>The site is located on a section of The Old Convict Road that runs along the steep basal southern slopes of Rudds Hill, parallel to and on the north margins of the river. The slope gradient where the site is located is around 15°. The site is 20m north of the river margins and elevated 5m above the river. A sparse scatter of shell midden deposit was identified along a 10m section of the 4m wide Road. The midden material is comprised entirely of mud oyster.</p>
AH13278	- E571046 N5287937 - E571045 N5287935 - E571074 N5287929 - E571074 N5287933	Shell midden	<p>The site is located on a section of The Old Convict Road that runs along the steep basal southern slopes of Rudds Hill, parallel to and on the north margins of the river. The site is 20m north of the river margins and elevated 3m above the river. A sparse scatter of shell midden deposit was identified along a 30m section of the 4m wide Road. The midden material is comprised entirely of mud oyster.</p>
AH13279	- E572746 N5289120 - E572743 N5289121 - E572740 N5289117 - E572744 N5289115	Shell midden	<p>The site is located at Raspins Beach, just north of the town of Orford. The shell midden deposit is situated on the eastern side of the Tasman Highway, approximately 150m to the south of the bridge crossing of Sheas Creek. A discrete scatter of surface midden material was observed across a 5m x 3m area, on an erosion scald, 10m east of the verge of the Highway. The site is on the low lying foredunes, 50m from the high tide mark, within the landscaped foreshore margins of Raspins Beach, where there are carpark areas, picnic tables and BBQs.</p>

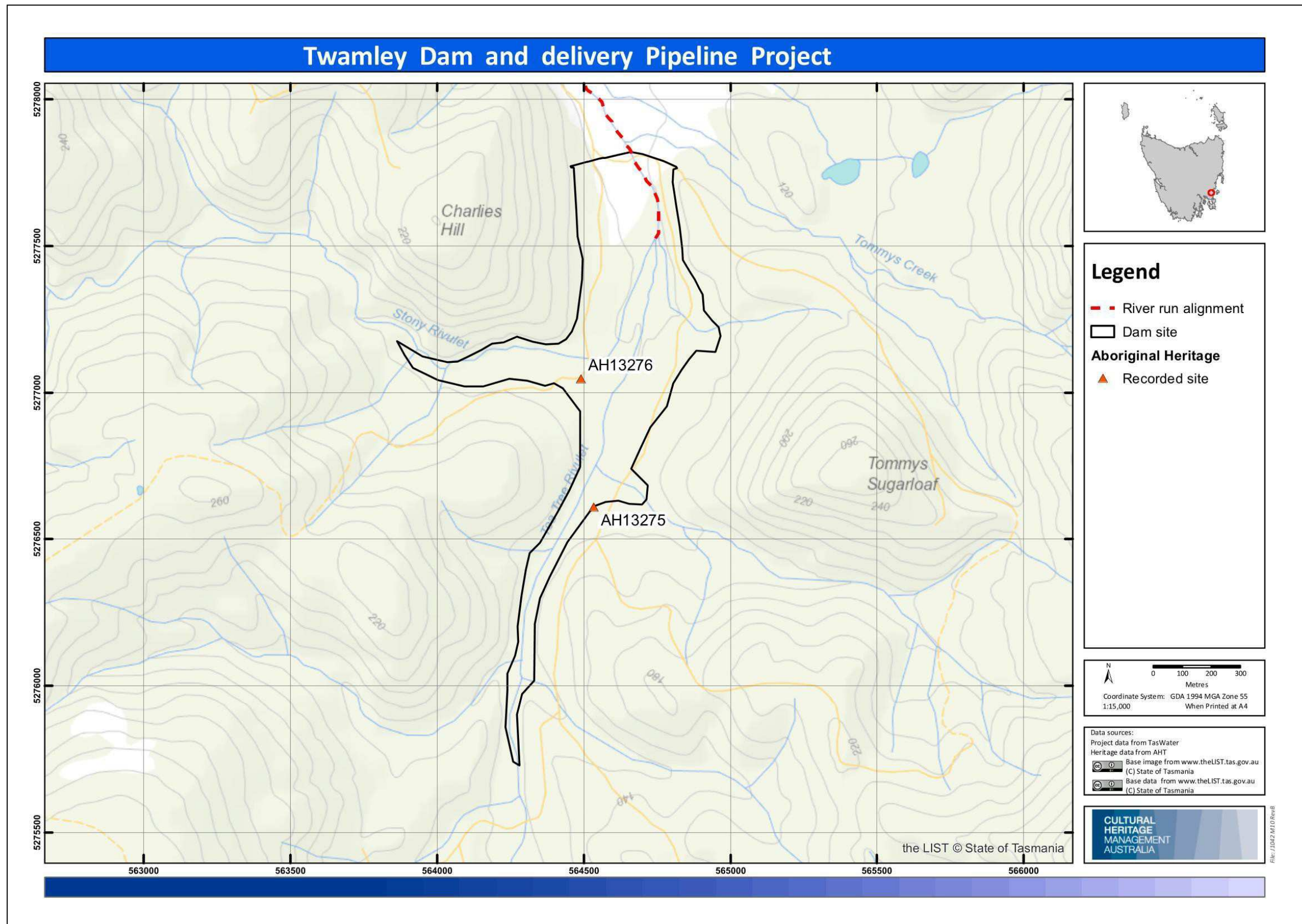


Figure i: The location of Aboriginal sites AH13275 and AH13276 in relation to the Twamley Dam footprint

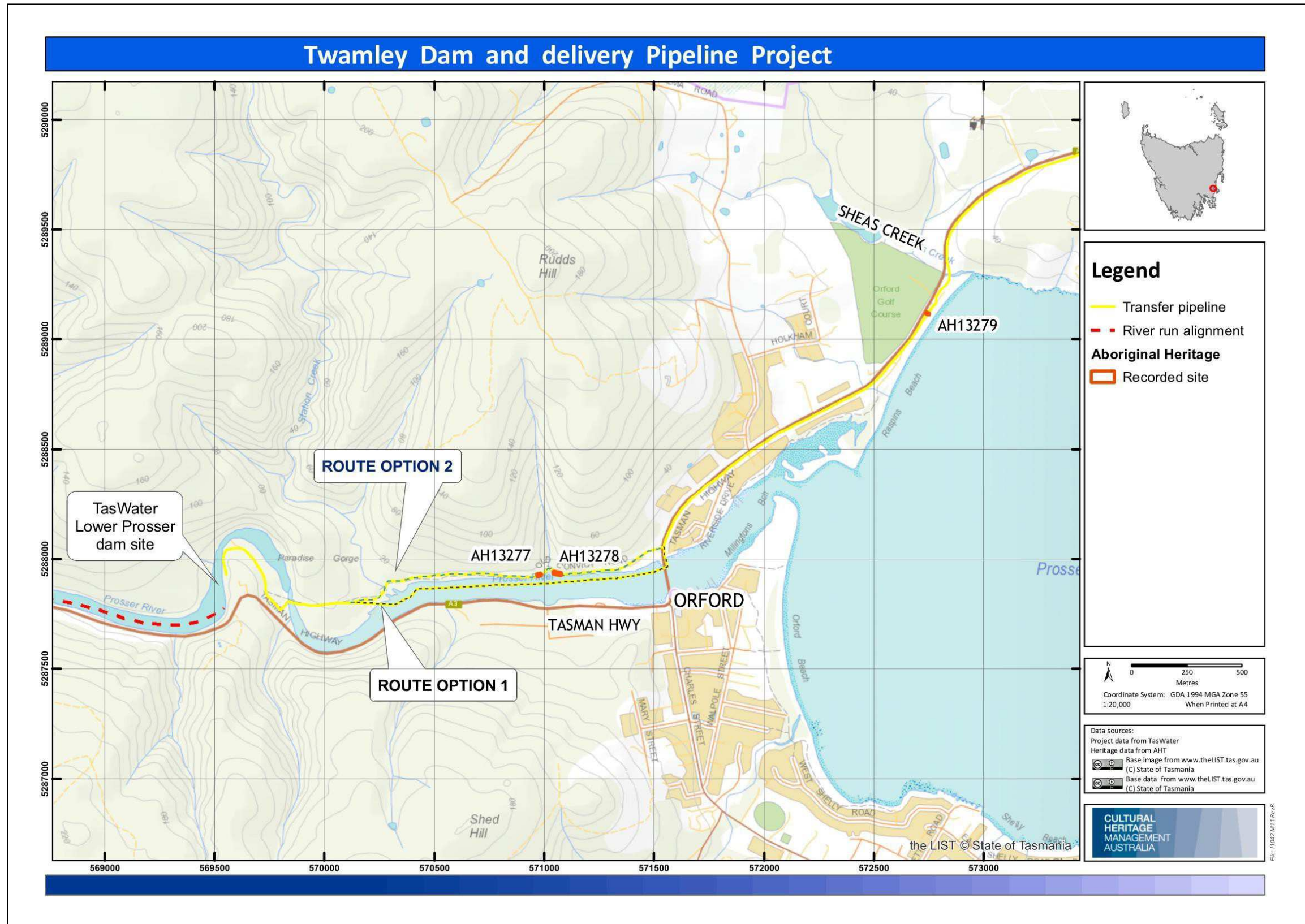


Figure ii: The location of Aboriginal sites AH13277, AH13278 and AH13279 in relation to the Delivery Pipeline Corridor

Significance Assessment

The five Aboriginal sites that were identified during the survey assessment of the Twamley Dam and delivery pipeline corridor have each been assessed and allocated a rating of significance. A five tiered rating system has been adopted for the significance assessment; low, low-medium, medium, medium-high and high. Table ii provides the summary details for significance ratings for the five recorded Aboriginal sites. A more detailed explanation for the assessment ratings are presented in section 8 of this report.

Table ii: Summary significance ratings for Aboriginal sites identified during the assessment of the Twamley Dam and delivery pipeline corridor

AH Number	Site Type	Scientific Significance	Aesthetic Significance	Historic Significance	Social Significance
AH13275	Isolated Artefact	Low	Medium-high	N/A	Medium
AH13276	Isolated Artefact	Low	Medium-high	N/A	Medium
AH13277	Shell midden	Low-medium	Medium-high	N/A	Medium-high
AH13278	Shell midden	Low-medium	Medium-high	N/A	Medium-high
AH13279	Shell midden	Low-medium	Medium	N/A	Medium-high

Aboriginal Cultural Heritage Management Plan

Heritage management options and recommendations provided in this report are made on the basis of the following criteria:

- Consultation with Rocky Sainty (Aboriginal Heritage Officer);
- The legal and procedural requirements as specified in the *Aboriginal Relics Act 1975* (The Act);
- The results of the investigation as documented in this report; and
- Background research into the extant archaeological and ethno-historic record for the study area and the surrounding region.

The recommendations are aimed at minimising the impact of the proposed Twamley Dam and Delivery Pipeline Project on Aboriginal heritage resources. Table iii provides the summary management recommendations developed for this project. The more detailed recommendations are presented in section 11 of this report.

Table iii: Summary Management Recommendations Twamley Dam and Delivery Pipeline Project

Infrastructure Area	Management Recommendations
Twamley Dam Site	<ul style="list-style-type: none"> - Two Aboriginal sites have been identified within the dam footprint (sites AH13275 and AH13276). The two sites are classified as Isolated artefacts. Both sites will be inundated by the dam development. - The proponent will need to apply for and obtain a Permit to impact these two sites, prior to dam construction works occurring.
Delivery Pipeline Corridor	<ul style="list-style-type: none"> - Three Aboriginal sites were identified during the survey of the Delivery Pipeline Corridor (sites AH13277, AH13278 and AH13279). The three sites are classified as shell middens. - The three sites are located just outside the pipeline corridor, and are not under direct threat of impact. The proponent will need to implement

Infrastructure Area	Management Recommendations
	<p>appropriate measures to ensure that these sites are not impacted (see detailed recommendations in section 11.3).</p> <ul style="list-style-type: none"> - If it appears that there is the potential that any of these three sites may be impacted, the proponent will need to apply for and obtain a Permit to impact these sites, prior to pipeline construction works occurring. - The Route Option 1 for the Delivery pipeline, where it will be submerged in the Prosser River, is preferred, as there is a decreased potential for accidental impacts on Aboriginal heritage.
River Run Transfer	<ul style="list-style-type: none"> - The River Run Transfer alignment was not surveyed as part of the current Aboriginal heritage assessment. - There are a large number of registered Aboriginal sites that are located in the general vicinity of the River Run transfer alignment. - There is no infrastructure installation proposed for the River Run transfer scheme, and water levels in the water course will not be significantly altered. As such no Aboriginal sites are under direct threat of impact. - If any infrastructure associated with the River Run transfer scheme is proposed to be installed, a separate Aboriginal heritage assessment will be required.
General Recommendations	<ul style="list-style-type: none"> - If previously undetected archaeological sites or objects are located during the course of the Dam or pipeline construction, the processes outlined in the Unanticipated Discovery Plan should be followed (see section 12). - Copies of this report should be submitted to Aboriginal Heritage Tasmania (AHT) and the Aboriginal Heritage Council (AHC) for review and comment.

