

# Appendix D Addendum Non-Aboriginal and Aboriginal Cultural Heritage Assessment Report

Snowy 2.0 Transmission Connection Project (December 2021)



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# **Abbreviations**

Term	Definition		
ACHAR	Aboriginal Cultural Heritage Assessment Report		
ACHCRP	Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010		
ACT	Australian Capital Territories		
AGD	Australian Geodetic Datum		
AHD	Australian Height Datum		
AHIMS	Aboriginal Heritage Information Management System		
APZ	Asset Protection Zone		
ВР	Before Present		
СНМР	Cultural Heritage Management Plan		
DECCW	Department of Environment, Climate Change and Water		
DPIE	Department of Planning, Industry and Environment		
EIS	Environmental impact statement		
ESD	Ecological Sustainable Development		
EP&A Act	Environmental Planning and Assessment Act 1979		
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999		
FGS	fine grained siliceous		
GDA	Geocentric Datum of Australia		
GIS	Geographic Information Systems		
ICOMOS	Australia International Council on Monuments and Sites		
IMSTC	Indurated mudstone / Tuff / Chert		
Jacobs	Jacobs Group (Australia) Pty Ltd		
KNP	Kosciusko National Park		
Km	Kilometre		
KV	Kilovolt		
LALC	Local Aboriginal Land Council		
LGA	Local Government Area		
m	meters		
MCoA	Minister's Conditions of Approval		
mm	millimetre		
NSW	New South Wales		
NPWS	National parks and Wildlife Service		
OEH	Office of Environment and Heritage		
PAD	Potential Archaeological Deposit		
PEA	Preliminary Environmental Assessment		



Term	Definition		
Post ex	Post excavation		
RAP	Registered Aboriginal Party		
SEAR	Secretary's Environmental Assessment Requirements		
SSI	State Significant Infrastructure		
ST PAD	Snowy Transmission Potential Archaeological Deposit		
TP	Test Pit		



# **Executive Summary**

TransGrid is seeking approval under Part 5, Division 5.2 of the Environmental Planning and Assessment Act 1979 (EP&A Act) to construct and operate an overhead electricity transmission line and a substation to connect the Snowy 2.0 pumped hydroelectricity generation works (Snowy 2.0) to TransGrid's existing transmission network at Nurenmerenmong, east of Tumbarumba (the project).

An Environmental Impact Statement (EIS) including the Aboriginal Cultural Heritage Assessment Report (ACHAR) was prepared to support TransGrid's application for approval of the project in accordance with the requirements of Division 5.2 of the EP&A Act. The EIS was placed on public exhibition by the NSW Department of Planning, Industry and Environment (DPIE) for a period of 42 days, between 23 February 2021 and 5 March 2021. During the exhibition period, interested stakeholders and members of the community were able to review the EIS and make a written submission to the DPIE for consideration in its assessment of the Project.

Following exhibition of the EIS, TransGrid identified amendments to the project as presented in the EIS. These amendments provide functional improvements to the design, confirm elements of the project that were highlighted as opportunities in the EIS and takes into account ongoing development of the construction methodology. The proposed amendments, particularly a reduction in the disturbance area, also respond to issues raised in submissions. These project amendments are discussed in further in the Snowy 2.0 Connection Project Amendment Report (TransGrid, 2021). The Amendment Report also provides the full amended project description, project clarifications, additional environmental assessment undertaken following exhibition of the EIS and update mitigation measures.

As part of this process Heritage NSW – Aboriginal Cultural Heritage (Heritage NSW) provided a detailed submission (DOC21/110300) on the 29 March 2021. This submission indicated that test excavations should be completed at two locations, identified as ST PAD 01 and ST PAD 02 to provide a more detailed assessment of significance. Heritage NSW also noted that the track atop Sheep Station Ridge was not assessed and that additional investigations of the area would be required to identify and assess Aboriginal heritage. However, as part of the proposed amendments, Sheep Station Ridge will be avoided.

In May 2021, Jacobs completed a field inspection in response to the identification of a potential find of an unexpected Aboriginal object. The inspections resulted in the identification of an additional area of PAD and surface artefact at Structure 5 (Str5 PAD). As well as previously unidentified surface artefacts at ST PAD 01, ST PAD 02, and AHIMS ID 56-6-0540 (located near Structure 7).

Based on advice provided in DOC21/110300, a test excavation methodology was prepared to guide investigations at ST PAD 01, ST PAD 02, and Str5 PAD (Appendix A). Subsequently, test excavations were undertaken within the disturbance area between 17 August and 20 August 2021. The test excavation program resulted in the identification of 20 artefacts at ST PAD 01 and 16 at ST PAD 02. The artefacts were identified within a context assessed as being of low archaeological integrity and as a result, ST PAD 01 and ST PAD 02 are considered to be of low significance. Based on the findings at ST PAD 01 and ST PAD 02, Str5 PAD was assessed as having no potential to contain subsurface artefacts, and no excavations were completed. On 24 August 2021, Heritage NSW was contacted and provided with an overview of the reassessment of Str5 PAD. Heritage NSW confirmed that test excavations would not be required at Str5 PAD to satisfy the comments made in DOC21/110300 (Appendix B). Following the reassessment, Str5 PAD was renamed Str5 AS. Due to the lack of archaeological integrity at Str5 AS, the site is considered to be of low significance.

The assessment of impacts included in the ACHAR (Jacobs 2020) was revised. It was found that the amended disturbance area will no longer pose an impact to AHIMS ID 56-6-0041. However, as a result of the design amendment, AHIMS ID 56-6-0540 and AHIMS ID 56-6-0048 will be totally impacted by the project, resulting in a total loss of value. ST PAD 01, ST PAD 02, and Str5 AS will be partially impacted, resulting in a partial loss of value.



It is therefore recommended that:

- Where possible, impacts to identified Aboriginal sites will be avoided
- Where impacts to ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 cannot be avoided, the approved MCoA must be issued by DPIE to authorise impacts through the project. Works cannot commence in these locations until this approval has been received and all conditions relating to these sites complied with
- A collection of surface artefact across the extent of ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 should take place prior to impacts. The surface collection would require the approved MCoA as authorisation for harm to the site through salvage works
- No mitigation measures will be required for AHIMS ID 56-6-0041
- A CHMP will be developed to provide guidance on the procedure for the identification of unexpected Aboriginal objects and the long-term management of Aboriginal objects retrieved from ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048
- If suspected human remains are located during any stage of the project, work will stop immediately, and the NSW police and Coroner's Office should be notified. NSW Heritage should be notified if the remains are found to be Aboriginal
- If changes are made to the project to include impacts outside the disturbance area as delineated in this document, further archaeological investigation will be conducted.

This Addendum ACHAR was prepared following the exhibition of the EIS. The revised ACHAR was prepared in response to the submission from NSW Heritage and assesses the impacts associated with the project amendments and should be read in conjunction with the ACHAR (Jacobs 2020).



## 1. Introduction

## 1.1 Background

TransGrid is the manager and operator of the major high-voltage electricity transmission network in New South Wales (NSW) and the Australian Capital Territory (ACT). TransGrid seeking approval under Part 5 Division 5.2 of the Environmental Planning and Assessment Act 1979 (EP&A Act) for the construction and operation of an overhead transmission connection and substation to enable the grid connection of Snowy 2.0 pumped hydro generation project (Snowy 2.0).

The Snowy 2.0 Transmission Project (the project) has been declared critical State Significant Infrastructure (SSI) under the State Environmental Planning Policy (State and Regional Development) 2011 and is subject to assessment and determination by the Minister for Planning and Public Spaces.

During the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR), a search of the Aboriginal Heritage Information Management System (AHIMS) database was completed on 21 September 2020, which resulted in the identification of five AHIMS registered sites within the extent of the project area:

- Ravine; Lobs Hole; KNP91-59 (AHIMS ID 56-6-0009)
- Ravine SU17/L1 (AHIMS ID 56-6-0477)
- Ravine SU3/L1 (AHIMS ID 56-6-0495)
- Ravine SU3/L2 (AHIMS ID 56-6-0496)
- Ravine SU3/L3 (AHIMS ID 56-6-0497).

A series of archaeological surveys of the project area were completed from March 2018 to October 2019 which resulted in the identification of four areas of Potential Archaeological Deposit (PAD):

- ST PAD 01, which encompasses AHIMS ID 56-6-0009, 56-6-00495, 56-6-0496 and 56-6-0497.
- ST PAD 02
- ST PAD 03
- Substation PAD.

An archaeological test excavation program was completed in October 2019 at ST PAD 03 and Substation PAD. ST PAD 01 and ST PAD 02 were not subject to test excavations as both areas were located within the Snowy 2.0 project area, which was an active construction site during the time of the archaeological excavations. In addition, the Snowy 2.0 area was the subject of a separate archaeological assessment completed by Dibden (2018; 2019). The results of the test excavations at ST PAD 03 and Substation PAD were incorporated into the ACHAR and the significance of ST PAD 01 and ST PAD 02 was assessed based on the findings of Dibden (2019) who completed a testing program is a similar landform.

An Environmental Impact Statement (EIS) including the ACHAR was prepared to support TransGrid's application for approval of the project in accordance with the requirements of Division 5.2 of the EP&A Act. The EIS was placed on public exhibition by DPIE for a period of 42 days, between 23 February 2021 and 5 March 2021. During the exhibition period, interested stakeholders and members of the community were able to review the EIS and make a written submission to the DPIE for consideration in its assessment of the Project

As part of this process Heritage NSW – Aboriginal Cultural Heritage (Heritage NSW) provided a detailed submission (DOC21/110300) on the 29 March 2021 (Appendix B). The Heritage NSW submission provided comment on the ACHAR (DOC21/110300), indicating that test excavations should be completed at ST PAD 01 and ST PAD 02 to provide a more detailed assessment of significance. Heritage NSW also noted that the track atop Sheep Station Ridge was not assessed and that additional investigations of the area would be required to identify and assess Aboriginal heritage.



In May 2021, Jacobs completed a field inspection in response to the identification of a potential find of an unexpected Aboriginal object. The inspections resulted in the identification of an additional area of PAD and surface artefacts at Structure 5 (Str5 PAD). The field inspection also resulted in the identification of previously unrecorded surface artefacts within ST PAD 01, ST PAD 02, and AHIMS ID 56-6-0540 (located near Structure 7).

Based on advice provided by Heritage NSW (DOC21/110300), a test excavation methodology was prepared to guide investigations at ST PAD 01, ST PAD 02, and Str5 PAD (Appendix A). Subsequently, test excavations were undertaken within the Project area between 17 August and 20 August 2021. This Addendum ACHAR outlines the results of the test excavation program.

#### 1.2 Project area

The project is located within the Local Government Area (LGA) of Snowy Valleys (**Figure 1.1**). The eastern extent of the project is defined by the location of the proposed Snowy 2.0 cable yard at Lobs Hole Ravine in Kosciuszko National Park (KNP). From the Snowy 2.0 cable yard, the transmission connection extends west through KNP, through a landscape characterised by steep, mountainous terrain before traversing Talbingo Reservoir. The transmission connection then continues west, passing Elliott Way at three locations before entering Bago State Forest to the proposed substation site and the connection with existing transmission lines.

The existing landscape character of much of the project area consists of undisturbed and mountainous terrain, forested valleys, and is the only true alpine environment in NSW (NSW National Parks and Wildlife Service 2003). This landscape contains signs of limited previous human disturbance. Previous disturbance within the project area consists of existing transmission line corridors, minor access tracks, and infrastructure associated with the Talbingo Reservoir.

#### 1.3 Overview of the project amendments

Following exhibition of the EIS, TransGrid identified amendments to the project as presented in the EIS. These amendments provide functional improvements to the design, confirm elements of the project that were highlighted as opportunities in the EIS and takes into account ongoing development of the construction methodology. The proposed amendments also respond to issues raised in submissions.

The proposed amendments include:

- A reduction to the disturbance area from approximately 143 hectares (ha) to approximately 125 ha
- The inclusion of six distinct management zones within the reduced disturbance area
- Access track amendments including the introduction of an additional track and the realignment of another track to align with the positioning of the equipment laydown area adjacent to TransGrid's Ravine substation
- Increased substation footprint to accommodate a wider asset protection zone to meet compliance with AS5339-2018 Construction of buildings in bushfire prone areas.
- Alternative spoil disposal within the approved Snowy 2.0 Main Works footprint to accommodate the disposal of spoil generated in project area east
- New water uptake sites to facilitate construction in project area west.

These project amendments are discussed further in the Snowy 2.0 Connection Project Amendment Report (TransGrid, 2021). The Amendment Report also provides the full amended project description, project clarifications, additional environmental assessment undertaken following exhibition of the EIS and update mitigation measures.

To address the comments made by Heritage NSW (DOC21/110300), the proposed amendments will avoid Sheep Station Ridge. As a result, no further archaeological investigations will be completed at Sheep Station Ridge.



The ACHAR (Jacobs 2020) assessed that AHIMS ID 56-6-0041 would be harmed by the project. However, the amended disturbance area will avoid these locations. No further consideration has been given to these sites in this report.

The revision of the disturbance area will pose an impact to AHIMS ID 56-6-0540 and AHIMS ID 56-6-0048, which was not assessed in the ACHAR (Jacobs 2020). An assessment of the significance of these sites has been included in Section 5 and an assessment of impacts has been included in Section 6. Management and mitigation measures have been included in Section 7.

#### 1.3.1 Update Project description since the display of the EIS

The key elements of the amended project are shown on Figure 1.2, and include:

- A new substation located within Bago State Forest and adjacent to TransGrid's existing Line 64, which forms a 330 kilovolt (kV) connection between Upper Tumut and Lower Tumut switching stations. The substation would occupy a footprint of about 225 metres (m) wide by 500m long, surrounded by an approximate 80m to 100m wide cleared Asset Protection Zone (APZ)
- Upgrade and widening of an existing access road off Elliott Way to the substation including the construction of new driveways into the 330 kV and 500 kV switchyards
- Two new 330 kV overhead double-circuit transmission lines from the Snowy 2.0 cable yard to the new substation:
  - Total length of each line is approximately nine kilometres (km)
  - Located in a transmission corridor ranging in width from approximately 120m to 150m, Inclusive of the hazard tree zone
  - Each line would comprise approximately 21 steel lattice structures up to 75m in height.
- Short overhead 330 kV transmission line connection (approximately 300m in length) comprising both steel lattice structures and pole structures as required between the substation and Line 64
- Construction of approximately 7.5km of new access tracks to the transmission structures, and upgrade to
  existing access tracks where required. The access tracks would remain following the completion of
  construction to service ongoing maintenance activities along the transmission lines
- Ancillary construction activities, including the establishment of tensioning and pulling sites for conductor and earth wire stringing, crane pads, site compounds and equipment laydown areas, and the transport and haulage of equipment and waste to and from the project area
- The accommodation of up to 20 construction workers at the Snowy 2.0 works accommodation at Lobs Hole with the remainder of the construction workforce being accommodated as required in the nearby townships of Tumbarumba, Talbingo, Tumut, Adaminaby, Providence Portal and Cooma.

## 1.4 Scope and objectives

This Addendum ACHAR was prepared following the exhibition of the EIS in response to the submission from NSW Heritage and assesses the impacts associated with the project amendments. This report is intended to be read in conjunction with the ACHAR prepared by Jacobs in December 2020. Background information, details of previously completed archaeological investigations, and other site information are not repeated in this report.

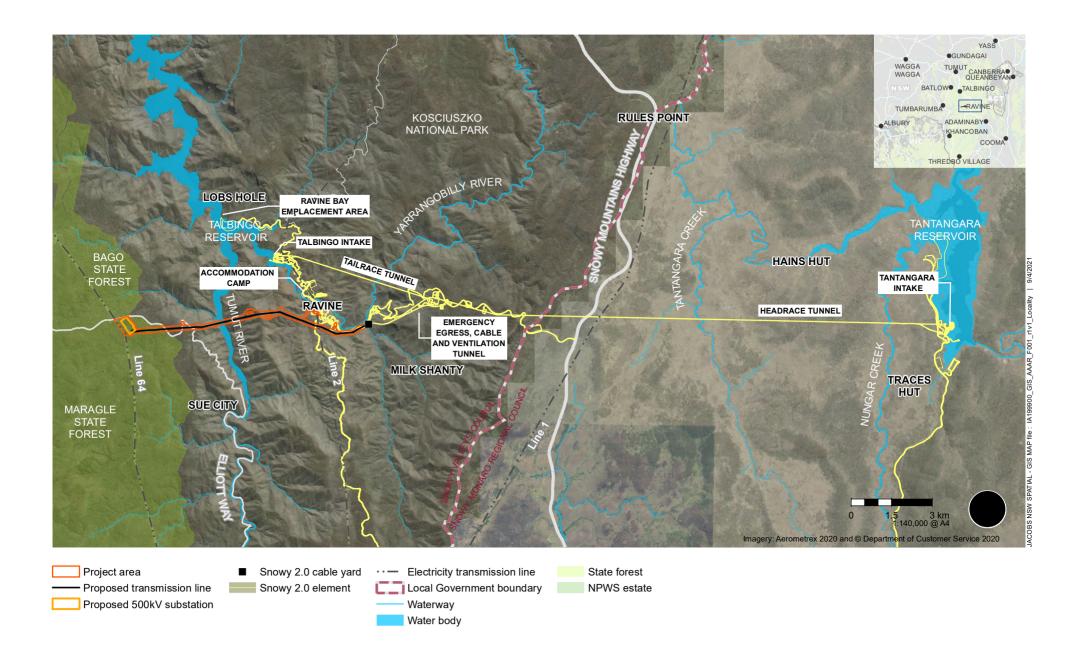
The objectives of this report are to:

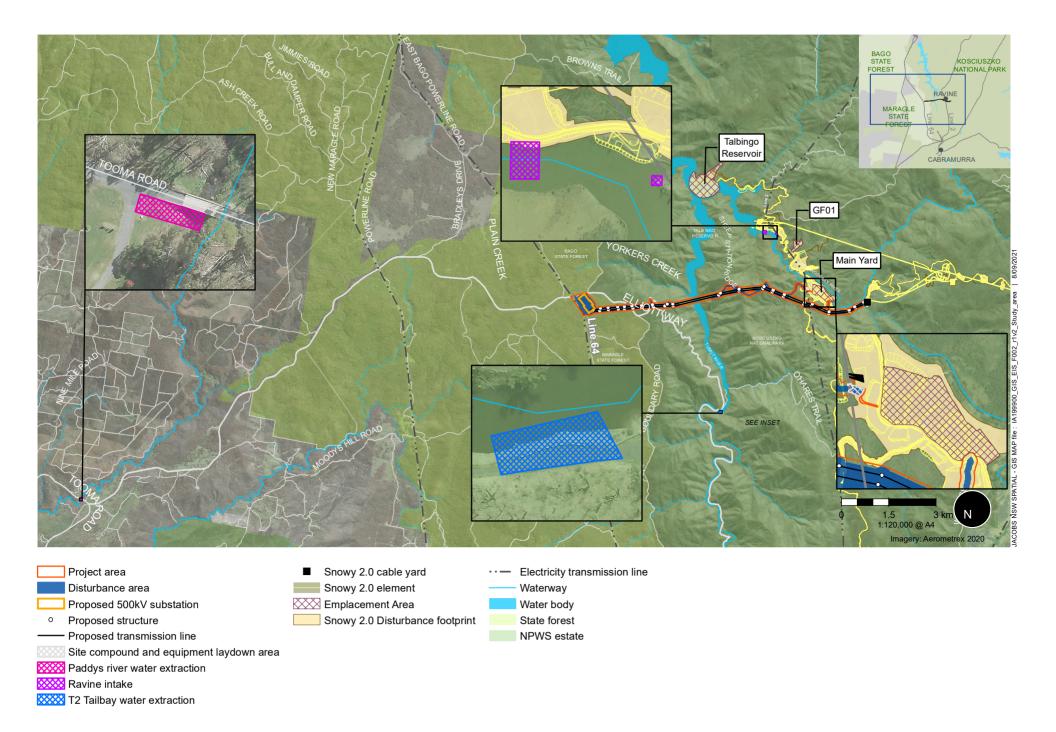
- Assess the Aboriginal cultural heritage values of the study area to address the recommendations of DOC21/110300
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the project
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.



## 1.5 Report authorship and acknowledgements

This report was prepared by Ryan Taddeucci (Senior Archaeologist, Jacobs) and Alexandra Seifertova (Archaeologist, Jacobs), with technical review and management input from Fran Scully (Principal Archaeologist, Jacobs). Mapping was prepared by Kasia Dworniczak (Senior Spatial Consultant, Jacobs).







# 2. Aboriginal stakeholder consultation

### 2.1 Registered Aboriginal Parties

Aboriginal stakeholder consultation was completed in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (ACHCRP) (DECCW 2010a) to inform the development of the ACHAR (Jacobs 2020) and supporting assessment methodologies. The consultation process resulted in the registration of 20 groups and/or individuals, summarized in **Table 2.1** below.

Table 2.1: Summary of RAPs identified through Stage 1

Organisation	Contact Person
Buru Ngunawal Aboriginal Corporation	Mr Walter Bell
Didge Ngunawal Aboriginal Corporation	Mr Paul Boyd and Ms Lilly Carroll
Griffiths Skills Training Centre and Ngumbaay Indigenous Corporation	Mr Luke Penrith
Gunjeewong Cultural Heritage Aboriginal Corporation	Ms Cherie Carroll Turrise
Koomurri Ngunawal Aboriginal Corporation	Mr Glen Freeman
Individual	Ms Janine Thompson
Individual	Ms Janice Williams
Individual	Ms Megan Considine
Merrigarn Indigenous Corporation	Mr Shaun Carroll
Muragadi Heritage Indigenous Corporation	Mr Jesse Johnson
Murra Bidgee Mullangari	Mr Ryan Johnson
Ngarigo Elders	Ms Iris White
Ngunawal Consultancy	Mr Piero Delponte
Snowy Mountains Indigenous Elders Group	Mr Ramsay Freeman
Individual	Ms Shirley Marlowe
Individual	Mr Matthew Marlowe
Individual	Mr Lawrence Marlowe
Individual	Mr Ron Grovenor
Walgalu Elder	Ms Alice Williams
Yurwang Gundana Consultancy Cultural Heritage Services	Mr Dean Bell

Following the completion of stakeholder consultation undertaken to inform the development of the ACHAR (Jacobs 2020), a draft test excavation methodology was developed to guide to investigations of ST PAD 01, ST PAD 02, and Str5 PAD. The draft test excavation methodology was distributed to the RAPs on 14 July 2021 with a 28-day period for review and comment. By the end of the review period four groups had provided comment, see **Table 2.2** for a summary of the RAP comments. The methodology was finalised following the receipt of comments and the end of the 28-day consultation period.

The draft version of this Addendum ACHAR was provided to the RAPs for a 28-day review on 10 September 2021, requesting comments by 11 October 2021. By the end of the review period, one group (Didge Ngunawal Aboriginal Corporation) provided comment. Paul Boyd (Didge Ngunawal Aboriginal Corporation) provided comment in support of the draft Addendum ACHAR.



See Appendix C for records of consultation completed for this addendum.

Table 2.2: Summary of comments received regarding the test excavation methodology

Name of Organisation	Feedback	Action
Murra Bidgee Mullangari	Endorses the recommendations of the methodology.	Noted
Didge Ngunawal Aboriginal Corporation	Agrees with the proposed approach. The project area is where Lilly Carroll's ancestors, great grandparents, grandparents and father were born. Lilly's grandfather, James Carroll, was a 'black tracker' and would do his tracking all over the Snow Mountains and beyond. Lilly's father, Phillip Carroll, was a drover and would travel all the way to the Melbourne border.	Noted
Koomurri Ngunawal Aboriginal Corporation	No comment at this stage.	Noted
Muragadi Heritage Indigenous Corporation	Agrees with the proposed approach.	Noted

#### 2.2 RAP participation in archaeological investigations

Luke Penrith (Consultant, Griffiths Skills Training Centre and Ngumbaay Indigenous Corporation) and Steven Connolly (Consultant, Griffiths Skills Training Centre and Ngumbaay Indigenous Corporation) were engaged to participate in the test excavation program. Luke Penrith had previously participated in the identification of ST PAD 02 and Str5 PAD with Jacob's personnel from March 2018 to May 2021, and Steven Connolly previously participated in the archaeological investigations undertaken by Dibden (2018; 2019).

Both RAPs stated on site that the remnant of ST PAD 01 that was subject to the current testing program would have low archaeological significance due to its location in the landscape. The area would have been within an active creek bed (evidenced through the presence of creek boulders in several test pits) and would not have contained permanent activity sites. The areas of ST PAD 01 previously tested by Dibden (2018; 2019) were further from the creek bed and therefore were of higher significance. These areas have been subsequently disturbed by works associated with an adjacent project.

ST PAD 02 was considered to be of low significance due its location on a steep slope. All artefacts found here were understood to have been a result of movement down the slope rather than representing permanent activity sites. Areas which would have higher significance was stated as being further up the slope near the ridgeline (outside of the activity area).



# 3. Test excavation methodology

#### 3.1 Aims

The key aims of test excavation were to:

- Determine whether any Aboriginal objects are present in subsurface deposits within ST PAD 01, ST PAD 02, and Str5 PAD
- Assess the scientific significance of any retrieved Aboriginal objects and context within ST PAD 01, ST PAD 02, and Str5 PAD
- Provide an opportunity for the RAPs to comment on the Aboriginal cultural heritage values of ST PAD 01, ST PAD 02, and Str5 PAD
- Provide the proponent with recommendations on future requirements for the management of ST PAD 01, ST PAD 02, and Str5 PAD.

The test excavation program was completed in accordance with the requirements of the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (the Code of Practice) (DECCW 2010b).

### 3.2 Timing and personnel

The test excavation program was carried out across four days from 17 August to 20 August 2021. Test excavation was supervised by Alison Lamond (Senior Archaeologist, Jacobs) and Alexandra Seifertova (Archaeologist, Jacobs).

Excavations were assisted by Luke Penrith (Consultant, Griffiths Skills Training Centre and Ngumbaay Indigenous Corporation) and Steven Connolly (Consultant, Griffiths Skills Training Centre and Ngumbaay Indigenous Corporation).

#### 3.3 Sample strategy

#### 3.3.1 ST PAD 01 and ST PAD 02

A total of nine dispersed test pits were excavated at ST PAD 01 and a total of seven were excavated at ST PAD 02. Due to dense vegetation, it was not possible to place the test pits on a grid with regular spacing, instead the pits were opportunistically placed at locations where disturbance was assessed to be minimal.

Areas where historic land use or obvious bioturbation had occurred were avoided as Aboriginal objects retrieved from those locations would be of low archaeological integrity and would not contribute towards a meaningful assessment of archaeological significance.

Two test pits (TP5 and TP9) located within ST PAD 01 were expanded to a  $1m \times 0.5m$  area, in order to allow safe excavation to a culturally sterile layer, at 0.3m in TP5a and 0.5m at TP9a.

#### 3.3.2 Str5 PAD

Artefacts were identified in the area of Str5 PAD on 28 April 2021. Subsequent survey on 25 May 2021 identified that soils on site were in situ and not transported from elsewhere, but that it was unlikely for sub-surface archaeological deposits to be found on site. However, it was assessed that bioturbation and cryoturbation may have resulted in surface artefacts being worked into the soil and an area of PAD was defined. A cautious approach was adopted, and a test excavation program was planned for Str5 PAD.

Following the completion of test excavations at ST PAD 01 and ST PAD 02, it was found that Aboriginal objects were only found in deposits that were formed by sediment movement on top of and not within the in situ soil. As a result, Str5 PAD was reassessed as a surface artefact scatter, without an area of PAD.



It was considered that test excavations would not result in the identification of subsurface Aboriginal objects or that any additional data will be gathered that would contribute towards an assessment of significance of the site. It was assessed that test excavations would result in unnecessary harm to the identified surface artefacts. Therefore, Heritage NSW was contacted on 24 August 2021 to confirm if test excavations would be required to address DOC21/110300. On 24 August 2021, Heritage NSW provided written confirmation that test excavations would not be required at Str5 PAD to address DOC21/110300.

As Str5 PAD has been reassessed as a surface artefact scatter with no area of PAD, the site will henceforth be referred to as Str5 AS.

#### 3.4 Excavation procedure

Each test pit was hand excavated in 100 mm spits to provide information on the vertical distribution of artefacts within large stratigraphic deposits, with the exception of the first test pit which was excavation in 50 mm spits. Excavations ceased where highly plastic clays, interpreted as degraded bedrock, were identified.

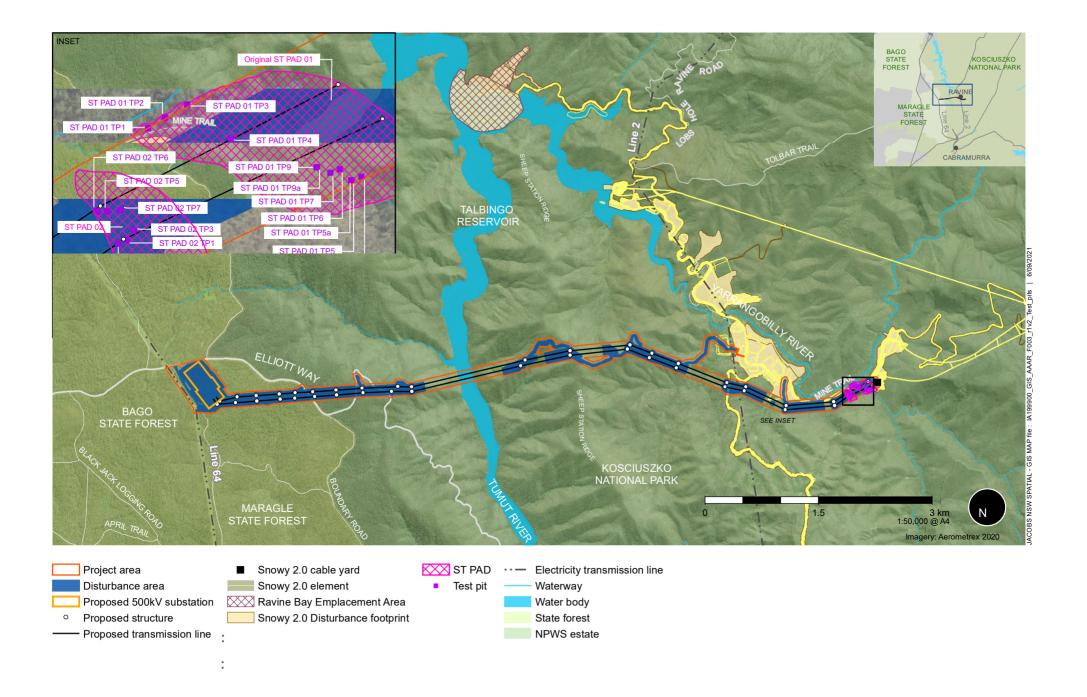
Each test pit was recorded photographically to capture images of the excavated sections and record information on the nature of the deposit and any stratigraphic or soil formation patterning. Scaled plans were made of a representative section from all test pits. Handwritten notes were made, describing the composition of the deposit at each test pit.

See Appendix D for records of the test excavation program.

#### 3.5 Aboriginal objects

All Aboriginal objects recovered from excavations were secured in zip-lock bags, which were labelled with the artefacts' date of excavation, area/site of excavation, square name/number, spit number, and other contextual information if applicable (e.g. feature or stratigraphic unit). Artefact bags were double-bagged within a larger grouping bag, to guard against potential loss during transport.

Following excavation, all artefacts were transported to Jacobs' Sydney office, and were kept in Jacobs' care while further analysis was undertaken. Photographs were taken of representative artefacts, to create a visual record of the general types of artefacts within the assemblage. The key attributes of all recovered Aboriginal objects were recorded (Appendix E).





#### 4. Test excavation results

#### 4.1 Soils, disturbance and features

The subsurface profile showed little variation across the excavation area at both ST PAD 01 and ST PAD 02 (See Appendix F) and was similar at both sites. The immediate subsurface consisted of thick leaf litter, plant roots, and other organic material. This material was soft and spongy, with mould and fungi growing within it. This organic material extended to a depth of between two and 50mm below the surface, where it graded to a humic topsoil, typically dark brown in colour. This topsoil was rich in organic material and had abundant plant roots growing through it. The topsoil consisted of a fine silt-clay mixture, with sand present in very low quantities (<5%).

The humic topsoil graded to a red-brown subsoil, consisting of a fine silt-clay mixture indistinguishable in texture from the topsoil above it, other than in its lack of humic material. The subsoil became heavier and more clay-rich with depth. At the base of each pit the subsoil had all the properties of clay. It was highly malleable, with surfaces that could be smoothed to a shiny polished texture. The subsoil contained small nodules, dark grey, red or yellow in colour. These were generally rare within the subsoil and were more common toward the base of each pit.

The transition between the profile zones described above was gradual in all excavated pits. None of the pits showed any evidence of discontinuity, or even a rapid transition zone between the humic leaf-litter, topsoil and subsoil. None of the pits exhibited concentrations of sand or gravel that could be evidence of lag deposits created through surface erosion. The subsurface profile is interpreted as one that has developed through in situ soil formation processes. The subsoil is probably derived from an underlying bedrock that has degraded and decayed over time, breaking down to form a clay-rich deposit. At the top of this deposit a soil horizon has developed, predominantly through biological processes: the action of plant roots, the deposition of leaf litter and other organic material on the ground surface, and the incorporation of this material into the underlying deposit through the activities of burrowing animals such as earthworms (Wood and Johnson 1978).

Angular pebbles and cobbles of igneous rock were present in varying quantities in the excavated pits. These angular pieces were less than 50mm in maximum dimension and made up >5% of the volume of material excavated. Pieces of rock occurred most frequently toward the base of spit 1 and the top of spit 2 – at a depth of 50 – 150mm. The occurrence of pebbles and cobbles within this zone of the deposit is probably due to the action of earthworms, which cause rocks to sink downwards through a deposit (Darwin 1840). The concentration of rock between five and 150mm below the surface corresponds to the depth of the deposit that has been subject to bioturbation by earthworms and other burrowing animals.

Both ST PAD 01 and ST PAD 02 were situated on a sloping landform and their sub-surface deposits were identified as being the product of fluvial processes. As a result, it is likely that all artefacts retrieved from the test excavation program had been displaced from their original context. Therefore, both ST PAD 01 and ST PAD 02 are considered to have low archaeological integrity and be representative of 'background scatter'. As a result, statistical analysis of the retrieved assemblage is not considered to be warranted, as it would not yield meaningful results pertinent to determining the scientific significance of the sites.

A total of nine dispersed test pits were excavated at ST PAD 01 and a total of seven were excavated at ST PAD 02. **Table 4.1** and **Photo 1** to **Photo 16** to provide specific test pit information.

Table 4.1: Test pit locations

Site	Test pit	Easting	Northing	Final depth
ST PAD 01	TP1	627516	6038101	450mm
ST PAD 01	TP2	627536	6038114	150mm
ST PAD 01	TP3	627563	6038129	200mm



Site	Test pit	Easting	Northing	Final depth
ST PAD 01	TP4	627615	6038089	100mm
ST PAD 01	TP5	627759	6038039	700mm
ST PAD 01	TP5a (stepped out for safety)	627759	6038039	500mm
ST PAD 01	TP6	627745	6038052	500mm
ST PAD 01	TP7	627734	6038048	500mm
ST PAD 01	TP8	627721	6038043	500mm
ST PAD 01	TP9	627718	6038055	700mm
ST PAD 01	TP9a (stepped out for safety)	627718	6038055	200mm
ST PAD 02	TP1	627490	6037968	400mm
ST PAD 02	TP2	627480	6037963	100mm
ST PAD 02	TP3	627499	6037979	300mm
ST PAD 02	TP4	627495	6037949	200mm
ST PAD 02	TP5	621407	6038002	200mm
ST PAD 02	TP6	627455	6038002	100mm
ST PAD 02	TP7	627483	6038003	200mm



Photo 1: Post ex of ST PAD 01 – TP1. End depth 45cm (Source: A. Lamond 17/08/2021)



Photo 2: Post ex of ST PAD 01 – TP2. End depth 15cm (Source: A. Lamond 17/08/2021)



Photo 3: Post ex of ST PAD 01 – TP3. End depth 20cm (Source: A. Lamond 17/08/2021)



Photo 5: Post ex of ST PAD 01 – TP5. End depth 70cm (Source: A. Lamond 18/08/2021)



Photo 4: Post ex of ST PAD 01 – TP4. End depth 10cm (Source: A. Lamond 17/08/2021)



Photo 6: Post ex of ST PAD 01 – TP6. End depth 50cm (Source: A. Lamond 18/08/2021)



Photo 7: Post ex of ST PAD 01 – TP7. End depth 50cm (Source: A. Lamond 19/08/2021)



Photo 9: Post ex of ST PAD 01 – TP9. End depth 70cm (Source: A. Lamond 19/08/2021)



Photo 8: Post ex of ST PAD 01 – TP8. End depth 50cm (Source: A. Lamond 19/08/2021)



Photo 10: Post ex of ST PAD 02 – TP1. End depth 20cm (Source: A. Lamond 20/08/2021)



Photo 11: Post ex of ST PAD 02 – TP2. End depth 40cm (Source: A. Lamond 20/08/2021)



Photo 12: Post ex of ST PAD 02 – TP3. End depth 10cm (Source: A. Lamond 20/08/2021)



Photo 13: Post ex of ST PAD 02 – TP4. End depth 30cm (Source: A. Lamond 20/08/2021)



Photo 14: Post ex of ST PAD 02 – TP5. End depth 20cm (Source: A. Lamond 20/08/2021)



Photo 15: Post ex of ST PAD 02 – TP6. End depth 10cm (Source: A. Lamond 20/08/2021)



Photo 16: Post ex of ST PAD 02 – TP7. End depth 20cm (Source: A. Lamond 20/08/2021)

#### 4.2 Artefact assemblage

As both ST PAD 01 and ST PAD 02 were located in close proximity, exhibited similar environmental features and were considered to have similar archaeological deposits. As a result, the artefacts have been considered as one assemblage.

A total of 36 artefacts were retrieved from the 4.5 m2 that was excavated across both sites, resulting in an artefact density of 8 artefacts per m2. The highest concentration of artefacts was retrieved from ST PAD 01, which yielded a total of 20 artefacts, for an average density of 7.27 artefacts per m2. Likewise, the largest and highest artefacts were also located in ST PAD 01 (**Table 4.2**). Based on the assessment of disturbance and site formation discussed in Section 4.1, it is likely that fluvial processes were more prominent at ST PAD 01, which resulted in the displacement of a greater number of artefacts that were, on average, larger than those located at ST PAD 02.

Table 4.2: Summary of retrieved artefacts

ID	Count	Weight total (g)	Average artefact weight (g)
ST PAD 01 – TP5	3	67.99	22.66
ST PAD 01 – TP5a	8	3.42	0.43
ST PAD 01 – TP9	5	18.51	3.70
ST PAD 01 – TP9a	4	23.01	5.75
ST PAD 02 – TP1	2	23.65	11.83
ST PAD 02 – TP5	4	11.86	2.97
ST PAD 02 – TP6	7	22.94	3.28
ST PAD 02 – TP7	3	4.77	1.59
TOTAL	36	176.15	4.89



#### 4.3 Updated site descriptions

#### 4.3.1 ST PAD 01

Site Type: Artefact Scatter

Centroid: MGA94 Zone 55 627682 mE 6038056 mN

Site Length: 170m Site Width: 355m

ST PAD 01 is an area of ground on the floor of a valley near Lobs Hole Ravine, approximately 1km southeast of the former Ravine Township at Lobs Hole. The area of PAD is within a flat, relatively open area adjacent to Wallaces Creek, and its confluence with the Yarrangobilly River. The survey on 25 May 2021, resulted in the identification of four stone artefacts, unretouched flakes, on the ground surface within the site extent. All surface artefacts were comprised of quartz

The site's original extent has been disturbed through ongoing Snowy 2.0 works. These disturbances include creation of an approximately 10m-wide haul road, several drainage catches, a bridge over Wallace Creek, and a built-up mounds to enable future construction (**Photo 17** to **Photo 19**). Areas of remnant native bushland remain in a narrow corridor on either side of Wallaces Creek (**Photo 20**).





Photo 17: ST PAD 01 – Disturbed area showing Wallace Bridge, haul road, and various mounds for construction, looking northeast (Source: A. Seifertova 17/08/2021)

Photo 18: ST PAD 01 – Disturbed area showing the new haul road, and various mounds for construction, looking southeast (Source: A. Seifertova 17/08/2021)





Photo 19: ST PAD 01 – Disturbed slope located below the haul road, looking east (Source: A. Seifertova 17/08/2021)

Photo 20: ST PAD 01 – Remnant 4WD track through native bushland, looking east (Source: A. Seifertova 18/08/2021)

The results of the test excavation program have confirmed the presence of subsurface artefacts across the area of PAD identified during the completion of the ACHAR. The subsurface assemblage was primarily comprised of Indurated mudstone / Tuff / Chert (IMSTC) with lesser numbers of silcrete and chert (Table 4.3). These lithologies are considered common within the local and regional context. The artefact types were predominately complete flakes and flake fragments with a single core and a single angular fragment (Table 4.4). No formal tools were identified within ST PAD 01 (Photo 21 to Photo 23).

Table 4.3: Summary of lithologies

Lithology	Count	Percentage (%)
IMSTC	16	80
Silcrete	3	15
Chert	1	5

Table 4.4: Summary of artefact types

Туре	Count	Percentage (%)
Complete flake	16	80
Core	1	5
Distal flake	1	5
Longitudinal left flake	1	5
Angular fragment	1	5



Photo 21: IMSTC core from ST PAD 01, TP5 – Spit 1 (Source: A.Seifertova 27/08/2021)



Photo 22: IMSTC flake from ST PAD 01, TP5 – Spit 1 (Source: A.Seifertova 27/08/2021)



Photo 23: IMSTC flake from ST PAD 01, TP9a – Spit 4 (Source: A.Seifertova 27/08/2021)



#### 4.3.2 ST PAD 02

Site Type: Artefact Scatter

Centroid: MGA94 Zone 55 627497 mE 6037950 mN

Site Length: 165m Site Width: 100m

ST PAD 02 is an area of level and gently sloping ground on the crest of a low spur ridge. This site is located to the west of ST PAD 01 and is approximately 80m south of the Yarrangobilly River. The survey on 25 May 2021, resulted in the identification of seven stone artefacts, consisting of one anvil, one retouched flake, and five unretouched flakes, on the ground surface within the site extent. The surface lithologies included quartz (n=3), silcrete (n=3) and igneous material (n=1).

The results of the test excavation program have confirmed the presence of subsurface artefacts across the area of PAD identified during the completion of the ACHAR. The subsurface assemblage was primarily comprised of Indurated mudstone / Tuff / Chert (IMSTC) with lesser numbers of quartz and chert (Table 4.6). These lithologies are considered common within the local and regional context. The artefact types were predominately complete flakes and flake fragments with lesser numbers of angular fragments (Table 4.6). Two formal tools were identified within ST PAD 02, one scrapper and one burin (Photo 24 to Photo 26). The presence of these artefacts indicates specialist activities. However, as the archaeological integrity of the site is low, it is considered unlikely that these activities took place within the site extent.

Table 4.5: Summary of subsurface lithologies

Lithology	Count	Percentage (%)
IMSTC	13	81.25
Quartz	1	6.25
Chert	2	12.5

Table 4.6: Summary of subsurface artefact types

Туре	Count	Percentage (%)
Complete flake	8	50
Scrapper	1	6.25
Distal flake	1	6.25
Proximal flake	1	6.25
Angular fragment	4	25
Burin	1	6.25



Photo 24: IMSTC flake with retouch on both lateral and sital margins from ST PAD 02, TP5 – Spit 1 (Source: A.Seifertova 27/08/2021)



Photo 25: IMSTC scrapper from ST PAD 02, TP6 – Spit 1 (Source: A.Seifertova 27/08/2021)



Photo 26: IMSTC burin from ST PAD 02, TP6 – Spit 1 (Source: A.Seifertova 27/08/2021)



#### 4.3.3 Str5 AS

Site Type: Artefact Scatter

Centroid: MGA94 Zone 55 626112 mE 6038065 mN

Site Length: 120m Site Width: 85m

Str5 AS is located on level and gently sloping terrain on a low round-topped ridgeline. The site also includes a proposed access track, running a short distance (approximately 200m) to an existing road to the west. This access track would cross through an existing cleared powerline easement approximately 50m to the west of Str5 AS.

Vegetation within the area consists of secondary eucalypt woodland, that has been extensively damaged by the recent bushfire. Trees are generally small (less than 10m tall), with little or no upper canopy, and with regrowth from their lower trunks and branches (**Photo 27**). Undergrowth, which was dense at the time of the original archaeological survey in 2019, is now very sparse and is probably limited regrowth after the previous undergrowth was entirely destroyed during the bushfire. Little to no leaf-litter remains on the ground surface. Ground surface visibility is consequently high, averaging around 70% across Str5 AS and the proposed access track.

Survey of the area resulted in recording fifteen stone artefacts, which were identified on the ground surface (**Table 4.7**). The assemblage mostly comprised unretouched flakes, with one core, one hammerstone, and one flaked piece.

Although the area was identified as a PAD originally and it was intended to undertake test excavation to determine if sub-surface deposits were present, it was considered that it was extremely unlikely for subsurface deposits to be present because of erosion which had removed all deposit down to a sterile in situ soil. Therefore, test excavations did not take place at this site.

It is considered that Str5 AS represents a surface scatter of Aboriginal objects only.

Table 4.7: Artefacts identified at Structure 5

Туре	Material	Completeness	Length (mm)	Width (mm)	Thickness (mm)	Photograph
Hammerstone	Igneous	Complete	80	80	35	Photo 27
Core	FGS	Complete	45	40	15	Photo 28
Flaked piece	FGS	NA	60	20	20	Photo 29
Unretouched flake	FGS	Complete	30	20	5	Photo 29
Unretouched flake	FGS	Complete	30	10	2	Photo 29
Unretouched flake	FGS	Complete	25	10	5	Photo 29
Unretouched flake	FGS	Complete	40	30	10	Photo 29
Unretouched flake	FGS	Complete	50	35	5	Photo 29
Unretouched flake	Quartz	Proximal fragment	25	25	7	Not illustrated
Unretouched flake	Quartz	Distal fragment	13	3	2	Not illustrated
Unretouched flake	Quartz	Complete	12	20	3	Not illustrated
Unretouched flake	Chert	Distal fragment	50	20	10	Not illustrated
Unretouched flake	Quartz	Distal fragment	20	10	5	Not illustrated



Туре	Material	Completeness	Length (mm)	Width (mm)	Thickness (mm)	Photograph
Unretouched flake	Quartz	Distal fragment	25	30	10	Not illustrated
Unretouched flake	Chert	Complete	20	30	5	Not illustrated



Photo 27: View west from eastern end of Str5 AS artefact scatter



Photo 28: Igneous hammerstone at Str5 AS



Photo 29: FGS core at Str5 AS



Photo 30: FGS flaked piece (top left) and FGS unretouched flakes at Str5 AS



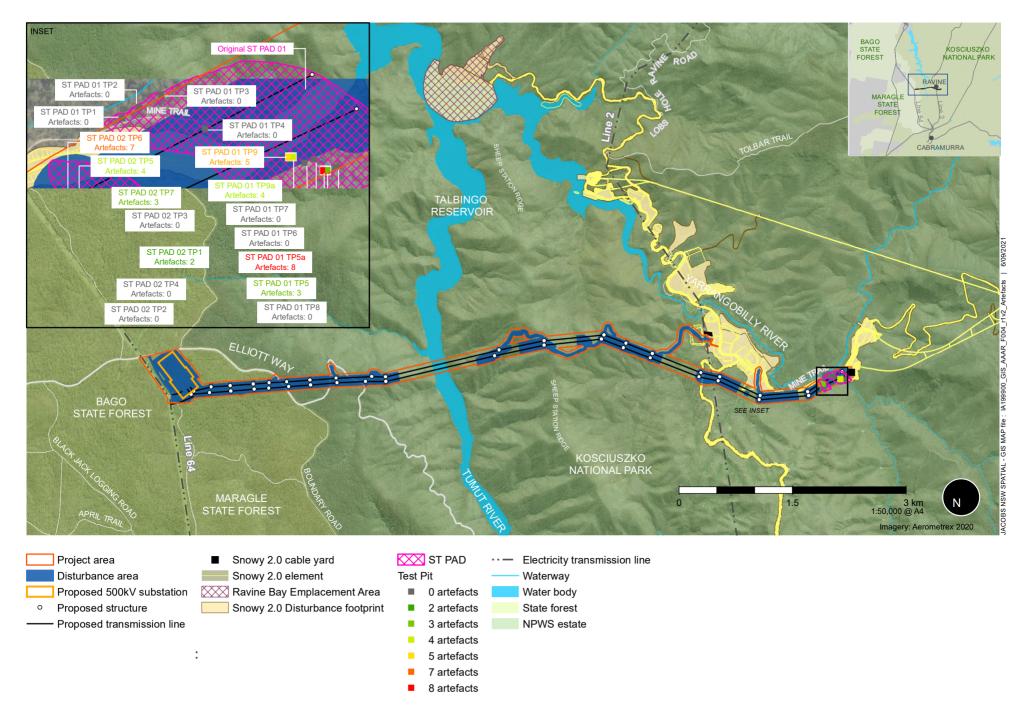
#### 4.4 Discussion

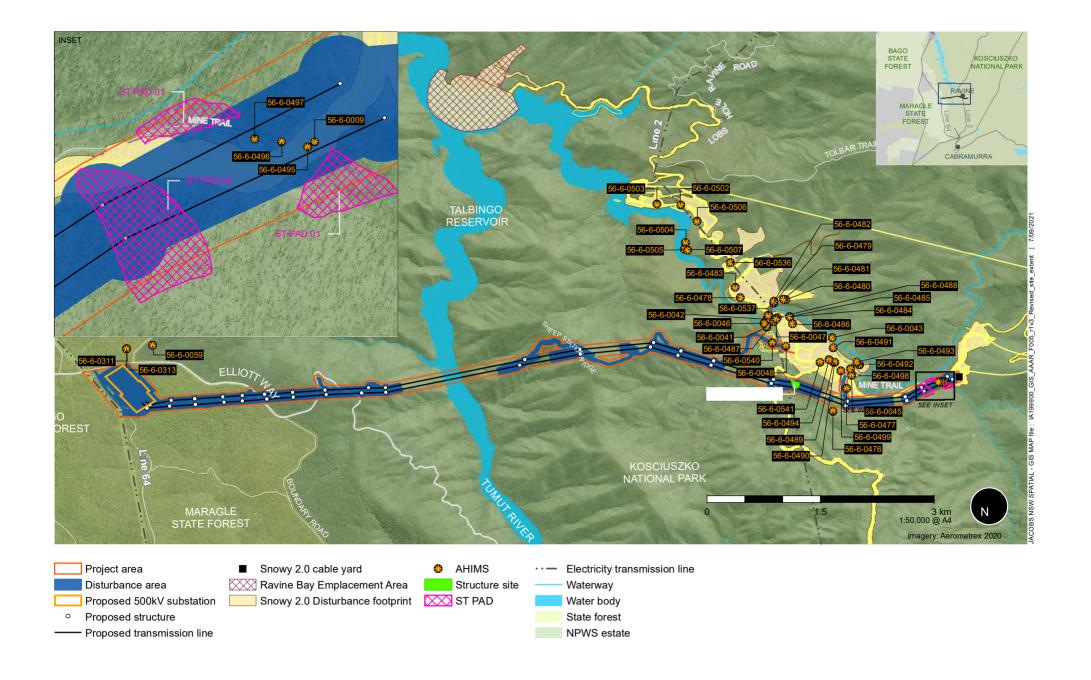
The artefacts recovered during the testing program at ST PAD 01 and ST PAD 02 comprised IMSTC (80.56%), silcrete (8.33%), chert (8.33%), and quartz (2.78%). This differed from what had been identified on the surface during the survey, where quartz was the dominant raw material (**Table 4.8**). Overall, the lithologies were predominantly comprised of sedimentary stone. All raw materials are ubiquitous in the local area and it is likely that they were sourced locally.

The limited number of identified Aboriginal objects may be indicative or transient usage of the area. The assemblage is small and not representative of intense reduction of stone and manufacture of tools. However, the objects are reflective of the enduring use of the landscape by Aboriginal people over millennia.

Table 4.8: Summary of subsurface lithologies across ST PAD 01 and ST PAD 02

Lithology	Subsurface percentage (%)	Surface percentage (%)
IMSTC	80.56	0
Silcrete	8.33	38.46
Chert	8.33	7.69
Quartz	2.78	46.15
Igneous	0	7.69







## 5. Significance assessment

#### 5.1 Assessment criteria

An assessment of the cultural heritage significance of an item or place is required in order to form the basis of its management. The Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW 2011) provides guidelines, in accordance with the Burra Charter (Australia ICOMOS 2013) for significance assessment with assessments being required to consider the following criteria:

- Social values does the area have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons
- Historic values is the area important to the cultural or natural history of the local area and/or region and/or state
- Scientific values does the area have the potential to yield information that will contribute to an understanding of the cultural and natural history of the local area and/or region and/or state
- Aesthetic values is the area important in demonstrating aesthetic characteristics in the local area and/or region and/or state.

Scientific values should be considered in light of the following criteria:

- Research potential does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential does the subject area contain teaching sites or sites that might have teaching potential?

It is important to note that heritage significance is a dynamic value.

#### 5.2 Scientific value

#### 5.2.1 ST PAD 01

The site is a low density, artefact scatter of low archaeological integrity. As a result, the site has a low potential for future research or educational value. The artefacts retrieved from the site are considered to be common within the regional and local context. As a result, the artefacts are not considered to be rare or particularly representative of unique artefact types.

#### 5.2.2 ST PAD 02

The site is a low density, artefact scatter of low archaeological integrity. As a result, the site has a low potential for future research or educational value. The artefacts retrieved from the site are considered to be common within the regional and local context. As a result, the artefacts are not considered to be rare or particularly representative of unique artefact types.

### 5.2.3 Str5 AS

The site is a low density, surface artefact scatter of low archaeological integrity. As a result, the site has a low potential for future research or educational value. The artefacts retrieved from the site are considered to be common within the regional and local context. As a result, the artefacts are not considered to be rare or particularly representative of unique artefact types.



#### 5.2.4 AHIMS ID 56-6-0540

The site is a low density, surface artefact scatter of low archaeological integrity. As a result, the site has a low potential for future research or educational value. The artefacts retrieved from the site are considered to be common within the regional and local context. As a result, the artefacts are not considered to be rare or particularly representative of unique artefact types.

#### 5.2.5 AHIMS ID 56-6-0048

The site was identified and recorded in 1991 as a surface artefact scatter that had been subject to erosion. The site recording form available on the AHIMS database does not include maps, photographs or descriptions of the artefact assemblage. The location of the site had been surveyed during the preparation of the ACHAR (Jacobs 2020) and could not be located. It is likely that ongoing erosion has resulted in the movement of the artefacts from their recorded location and the site has been destroyed through nature processes. As a result, the site is considered to be of low scientific value.

### 5.2.6 Summary

A summary of scientific significance for the study area is provided in **Table 5.1**.

Table 5.1: Assessment of scientific value

Site name	Research potential	Representativeness	Rarity	Educational potential	Overall significance assessment
ST PAD 01	Low	Low	Low	Low	Low
ST PAD 02	Low	Low	Low	Low	Low
Str5 AS	Low	Low	Low	Low	Low
AHIMS ID 56-6-0540	Low	Low	Low	Low	Low
AHIMS ID 56-6-0048	Low	Low	Low	Low	Low

#### 5.3 Social value

The views of Aboriginal people, as the traditional custodians of all material and immaterial aspects of their culture, are the primary determinant of the social significance of Aboriginal cultural heritage. Aboriginal people's views on the significance of Aboriginal sites are usually related to traditional, cultural and educational values, although some Aboriginal people also value any scientific information a site may be able to provide.

Aboriginal cultural significance was assessed through consultation with the nominated site officers from the Registered Aboriginal Parties before, during and after the field work phase of the project. It should be noted that the information gained through this process may not reflect the views of all members of the local Aboriginal communities.

As part of the consultation process the RAPs were asked to provide appropriate information on the social value of the subject site. At the end of the consultation program no information regarding the social value of the sites was supplied by the RAPs.



#### 5.4 Historic value

The historic value of a site is determined through its association with historically important people, events or activities. The project area is not known to be associated with any people, events or activities of historical importance to the Aboriginal community.

As part of the consultation process the RAPs were asked to provide appropriate information on the historic value of the subject site. At the end of the consultation program no information regarding the historic value of the sites was supplied by the RAPs.

#### 5.5 Aesthetic value

Aesthetic significance refers to the sensory value of a place, and can include aspects such as form, texture, and colour, and can also include the smell and sound elements associated with use or experience of a site. Aesthetic significance is often closely linked to the social value of a site.

Based on proximity to aesthetically pleasing features such as trees and remnant, intact landforms, the project area is considered to be of high aesthetic value.

As part of the consultation process the RAPs were asked to provide appropriate information on the aesthetic value of the subject site. At the end of the consultation program no information regarding the aesthetic value of the sites was supplied by the RAPs.

### 5.6 Statement of significance

Based on research undertaken and consultation with the RAPs to date, no specific historic or socio/cultural values associated with the study area were identified. The study area is considered to be of moderate aesthetic significance due to the presence of traditional landscape features. ST PAD 01, ST PAD 02, and Str5 AS are considered to be of low scientific value. Therefore, the sites have been assessed as being of low significance.



## 6. Impact assessment

## 6.1 Impacts of the project

The current test excavation program and previous archaeological investigations have provided evidence for the presence of surface and subsurface Aboriginal objects within the disturbance area (**Figure 4.2**). This assessment is based on the description of the project outlined in **Section 1.3.1**. It is likely that the project will result in direct impacts to ST PAD 01, ST PAD 02, and Str5 AS resulting in a partial loss of value. The amendment of the disturbance area will result in direct impacts to AHIMS ID 56-6-0540 and AHIMS ID 56-6-0048 and no impacts to AHIMS ID 56-6-0041. A summary of the impacts to sites identified during test excavation is provided in **Table 6.1**.

Table 6.1: Assessment of impacts

Site name	Type of harm	Degree of harm	Consequence of harm
ST PAD 01	Direct	Partial	Partial loss of value
ST PAD 02	Direct	Partial	Partial loss of value
Str5 AS	Direct	Partial	Partial loss of value
AHIMS ID 56-6-0540	Direct	Total	Total loss of value
AHIMS ID 56-6-0048	Direct	Total	Total loss of value
AHIMS ID 56-6-0041	None	None	No loss of value

## 6.2 Ecological Sustainable Development principles

The Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW 2011) specifies that Ecological Sustainable Development (ESD) principles must be considered when assessing harm and recommending mitigation measures in relation to Aboriginal objects.

The following relevant ESD principles are outlined in Section 3A of the *Commonwealth Environment Protection* and *Biodiversity Conservation Act 1999*:

- Decision-making processes should effectively integrate both long term and short term economic, environmental, social and equitable considerations (the 'integration principle')
- If there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation (the 'precautionary principle')
- The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations (the 'principle of intergenerational equity').

## 6.2.1 The integration principle

The project would comply with the integration principle in regard to Aboriginal heritage. The Aboriginal heritage values of the study area have been considered as part of the planning process for the project.

### 6.2.2 The precautionary principle

ST PAD 01 and ST PAD 02 were identified during the archaeological survey completed for the project. In order to ameliorate the uncertainty associated with the area of archaeological potential, a test excavation program has been conducted. The combination of predictive models and the results of the test excavation have been used to assess the probable nature of the archaeological record within the project area. It is unlikely that archaeologically significant material will be present at the location of ST PAD 01 and ST PAD 02.



Based on the findings of the assessment it is unlikely that subsurface artefacts will be present at the location of Str5 AS. AHIMS ID 56-6-0540 and AHIMS ID 56-6-0048 have not been assessed as having an area of PAD, therefore it is unlikely that additional archaeological investigations will identify additional Aboriginal objects that will influence the assessment of significance.

### 6.2.3 The principle of intergenerational equity

The project would adhere, as close as possible, to the principle of intergenerational equity by collating scientific and cultural information on former Aboriginal occupation of the study area through the previous investigations and this report and the ACHAR (Jacobs 2020). Portions of ST PAD 01, ST PAD 02, and Str5 AS will not be harmed by the project and will be preserved *in-situ*. In addition, the amendment of the disturbance area will no longer result in harm to AHIMS ID 56-6-0041 which will be preserved *in-situ*.

### 6.3 Cumulative impacts

A cumulative impact is an impact on Aboriginal cultural heritage resulting from the incremental impact of the action/s of a development when added to other past, present and reasonably foreseeable future actions. The search of the AHIMS database completed for the ACHAR (Jacobs 2020) identified a total of 101 previously recorded sites within the local context. Overall, the project will result in impacts to 11 Aboriginal sites:

- ST PAD 01
- ST PAD 02
- ST PAD 03
- AHIMS ID 56-6-0009
- AHIMS ID 56-6-0048
- AHIMS ID 56-6-0477
- AHIMS ID 56-6-0495
- AHIMS ID 56-6-0496
- AHIMS ID 56-6-0497
- AHIMS ID 56-6-0540
- Str5 AS.

Therefore, the project will result in the destruction of 10.9% of identified Aboriginal sites within the local area. This is considered to be a significant cumulative impact to Aboriginal objects, which are a non-renewable resource.



## 7. Management and mitigation

## 7.1 Guiding principles

Where possible, cultural heritage should be conserved and protected in situ. However, where conservation is not practical, measures should be implemented to mitigate against the loss of significance. These mitigation measures are based of the assessed significance of the site again the proposed impacts:

- Low significance Conservation where possible. The Minister's Conditions of Approval (MCoA) would be required to impact the site before works can commence
- Moderate significance Conservation where possible. If conservation was not practicable further archaeological investigation would be required such as salvage excavations or surface collection under the MCoA
- High significance Conservation as a priority. The MCoA would be required only if other practical
  alternatives have been discounted. Recommendations for the conditions of the MCoA would depend on the
  nature of the site, but may comprehensive, large scale salvage excavations.

ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 have been identified as demonstrating low significance. Therefore, where conservation is not practical, the MCoA will be required to impact the sites prior to the commencement of works.

AHIMS ID 56-6-0041 will not be impacted by the project, and no mitigation is required.

#### 7.2 Surface collection

To mitigate against the destruction of identified Aboriginal objects across the surface of ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048; the RAPs should be provided an opportunity to complete a collection of surface artefacts. Surface collection will be undertaken using the following method:

- Artefact collection will be undertaken by a team comprising an archaeologist and RAP representatives
- Artefact locations will be marked on the ground and recorded with a hand-held GPS (or equivalent) prior to collection
- Collected artefacts will be catalogued on site by the team, with recorded attributes as listed for the test excavation analysis
- Artefacts will be placed in individual bags, labelled with location information
- Following the completion of the surface collection program, a brief report would be prepared which outlines the results of the program.

### 7.3 Cultural Heritage Management Plan and unexpected finds procedure

A Cultural Heritage Management Plan (CHMP) and accompanying unexpected finds procedure will provide a method to manage potential heritage constraints and unexpected finds during construction works.

The long-term storage of any recovered Aboriginal objects will be developed during the completion of the CHMP, in consultation with the RAPs, but is likely to include (in preferential order):

- Re-burial on site, in an appropriate location in the vicinity of the project
- Lodged with a RAP under a Care and Control Agreement
- Deposition with the Australian Museum.



## 7.4 Discovery of human remains

If any human remains are discovered and/or harmed in, on or under the land, the following actions must be taken:

- Do not further move or disturb these remains
- Immediately cease all works at the particular location
- Secure the area so as to avoid further harm to the remains
- Notify the NSW police
- Notify Heritage NSW on the Environment Line (131 555) as soon as practicable and provide any available details of the remains and their location
- Not to recommence any work at the particular location unless authorised in writing by Heritage NSW.

## 7.5 Changes to the project

Advice provided within this report is based upon the most recent information provided by the proponent at the time of writing. Any changes made to the project should be assessed by an archaeologist in consultation with the RAPs. Any changes that may impact on Aboriginal sites not assessed as part of the project may warrant further investigation and result in changes to the recommended management and mitigation measures.



## 8. Conclusions and recommendations

The following recommendations are based on consideration of:

- Statutory requirements under the National Parks and Wildlife Act 1974
- The requirements of SEARs SSI 9717
- The results of this Addendum ACHAR and the ACHAR (Jacobs 2020).
- Advice provided by Heritage NSW in DOC21/110300.

#### It was found that:

- ST PAD 01 and ST PAD 02 includes a low density artefact assemblage.
- Str5 AS is a low density, surface artefact assemblage
- ST PAD 01, ST PAD 02, and Str5 AS have been assessed as being of low archaeological significance.
- According to current design plans, ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 will be subject to harm by the project.
- According to current design plans, AHIMS ID 56-6-0041 will not be harmed by the project.

#### It is therefore recommended that:

- Where possible, impacts to identified Aboriginal sites should be avoided.
- Where impacts to ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 cannot be avoided, the approved MCoA must be issued by DPIE to authorise impacts through the project. Works cannot proceed in these locations as per earlier wording
- A collection of surface artefact across the extent of ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048 should take place prior to impacts. The surface collection would require the approved MCoA as authorisation for harm to the site through salvage works
- No mitigation measures will be required for AHIMS ID 56-6-0041 as it will not be impacted by the amended project
- A CHMP should be developed to provide guidance on the procedure for the identification of unexpected Aboriginal objects and the long-term management of Aboriginal objects retrieved from ST PAD 01, ST PAD 02, Str5 AS, AHIMS ID 56-6-0540, and AHIMS ID 56-6-0048
- If suspected human remains are located during any stage of the project, work should stop immediately, and the NSW police and Coroner's Office should be notified. NSW Heritage should be notified if the remains are found to be Aboriginal
- If changes are made to the project to include impacts outside the disturbance area as delineated in this document, further archaeological investigation must be conducted.



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## Appendix A. Test excavation methodology



## **Snowy Hydro 2.0 Transmission Line Connection Project**

TransGrid

**Aboriginal Cultural Heritage Assessment Test Excavation Methodology** 

Draft 2

July 2021

IA199900





## **Snowy Hydro 2.0 Transmission**

Project No: IA199900

Document Title: Aboriginal Cultural Heritage Assessment Test Excavation Methodology

Document No.: Draft 2
Revision: R01

Date: 14 July 2021
Client Name: TransGrid
Client No: IA199900

Project Manager: Tina-Maria Donovan Author: Ryan Taddeucci

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#### **Document history and status**

Revision	Date	Description	Ву	Review	Approved
R00	09 July 2021	Draft archaeological test excavation method	Ryan Taddeucci	Fran Scully	Birgit Porter
R01	14 July 2021	Draft archaeological test excavation method	Ryan Taddeucci	Fran Scully	Tina-Maire Donovan

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## Appendix A. Unexpected discovery of human remains



## 1. Introduction

## 1.1 Background and purpose of this document

TransGrid (the proponent) is the manager and operator of the major high-voltage electricity transmission network in New South Wales (NSW) and the Australian Capital Territory (ACT). The proponent is seeking approval under Part 5 Division 5.2 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) for the construction and operation of an overhead transmission connection and substation to enable the grid connection of the proposed Snowy 2.0 pumped hydro generation project (Snowy 2.0) (the project). The project has been declared critical State Significant Infrastructure (SSI) under the *State Environmental Planning Policy (State and Regional Development) 2011* and is subject to the Secretary's Environmental Assessment Requirements (SEARs) and amended SEARs (SSI 9717).

In accordance with SEARs SSI 9717, an Aboriginal Cultural Heritage Assessment Report (ACHAR) was prepared for the project by Jacobs in December 2020. During the preparation of the ACHAR, a search of the Aboriginal Heritage Information Management System (AHIMS) database was completed on 21 September 2020, which resulted in the identification of five AHIMS registered sites within the extent of the project area:

- Ravine; Lobs Hole; KNP91-59 (AHIMS ID 56-6-0009)
- Ravine SU17/L1 (AHIMS ID 56-6-0477)
- Ravine SU3/L1 (AHIMS ID 56-6-0495)
- Ravine SU3/L2 (AHIMS ID 56-6-0496)
- Ravine SU3/L3 (AHIMS ID 56-6-0497).

A series of archaeological surveys of the project area were completed from March 2018 to October 2019 which resulted in the identification of four areas of Potential Archaeological Deposit (PAD):

- ST PAD 01, which encompasses AHIMS ID 56-6-0009, 56-6-00495, 56-6-0496 and 56-6-0497.
- ST PAD 02
- ST PAD 03
- Substation PAD.

An archaeological test excavation program was completed in October 2019 at ST PAD 03 and Substation PAD. ST PAD 01 and ST PAD 02 were not subject to test excavations as both areas were located within the Snowy 2.0 project area, which was an active construction site during the time of the archaeological excavations. In addition, the Snowy 2.0 area was the subject of a separate archaeological assessment completed by Dibden (2018 and 2019). The results of the test excavations at ST PAD 03 and Substation PAD were incorporated into the ACHAR and the significance of ST PAD 01 and ST PAD 02 was assessed based on the findings of Dibden 2019 who completed a testing program is a similar landform.

The ACHAR was submitted as part of the Environmental Impact Statement in February 2021 for exhibition. On 29 March 2021, Heritage NSW provided comment on the ACHAR, indicating that test excavations should be completed at ST PAD 01 and ST PAD 02 to provide a more detailed assessment of significance. In May 2021, Jacobs completed a field inspection in response to the identification of a potential find of an unexpected Aboriginal object. The inspections resulted in the identification of an additional area of PAD at Structure 6 (Str6 PAD).

Based on advice provided by Heritage NSW on 29 March 2021, Jacobs propose to complete archaeological test excavations at ST PAD 01, ST PAD 02, and Str6 PAD. This document has been prepared to outline the proposed sampling strategy and excavation procedure. A draft copy of this document will be provided to the registered



Aboriginal parties (RAPs) to provide them with an opportunity to review and provide feedback and comment. This process forms part of the consultation process set out in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010a).

## 1.2 Summary of the Aboriginal cultural heritage assessment process

Consultation provides the Aboriginal community the opportunity to improve assessment results by:

- Sharing relevant information about the cultural significance and values of Aboriginal object(s) and/or place(s)
- Contributing to the assessment of cultural and scientific significance of Aboriginal object(s) and/or place(s)
- Reviewing and commenting on the proposed methods of assessing cultural heritage within the project area
- Contributing to the development of cultural heritage management options and recommendations for Aboriginal object(s) and/or place(s) within the subject area
- Commenting and providing feedback on the draft assessment report (ACHAR) before it is submitted to the relevant government agency.

The Aboriginal cultural heritage assessment will involve the following tasks:

- Development of a method for archaeological test excavation (this document)
- Test excavations within the areas of PAD proposed to be impacted by the project
- Reporting the information and results of the test excavations will be documented in an addendum ACHAR, which will:
  - Present the results of the test excavation program
  - Include an assessment of the significance of any Aboriginal objects and record any Aboriginal cultural heritage values identified by knowledge holders
  - Include an impact assessment and provide management and mitigations measures.
- The addendum ACHAR will be reviewed by RAPs. Information, comments and feedback received from RAPs will be incorporated into the final version of the report
- A copy of the final report will be lodged as a response to the agency submission provided by Heritage NSW
- Site records on the AHIMS will be updated as necessary.

## 1.3 Project Description

The project is located within the Local Government Area (LGA) of Snowy Valleys. The eastern extent of the project is defined by the location of the proposed Snowy 2.0 cable yard at Lobs Hole Ravine in Kosciuszko National Park (KNP). From the Snowy 2.0 cable yard, the transmission connection extends west through KNP, through a landscape characterised by steep, mountainous terrain before traversing Talbingo Reservoir. The transmission connection then continues west, passing Elliott Way at three locations before entering Bago State Forest to the proposed substation site and the connection with existing transmission lines.

The features of Project would include:

- A new 330/500 kilovolt (kV) substation located within Bago State Forest and adjacent to TransGrid's existing Line 64, which forms a 330 kV connection between Upper Tumut and Lower Tumut substations. The substation would comprise an area of approximately 680 m by 380 m inclusive of an asset protection zone.
- A new access road off Elliot Way to the new substation



- Two new 330 kV overhead double-circuit transmission lines from the Snowy Hydro 2.0 cable yard to the new substation
  - Total length of each line approximately nine kilometres
  - Located in an approximate 120 to 130 m wide easement corridor
  - Each line would comprise approximately 22 steel lattice towers.
- Short overhead 330 kV transmission line connection (approximately 250 m in length) comprising approximately three transmission towers between the substation and Line 64
- Establishment of new access tracks to the transmission towers and upgrade to existing access tracks where
  required. The access tracks would remain following the completion of construction to service ongoing
  maintenance activities along the transmission lines
- Ancillary activities, including the establishment of tensioning and pulling sites for conductor and earth wire stringing, crane pads, site compounds, and equipment laydown areas.

## 1.4 Impact assessment

The impact assessment completed during the preparation of the ACHAR found that the entire extent of ST PAD 01 and ST PAD 02 would be impacted by the proposed works, resulting in a total loss of value. However, since the completion of the ACHAR, the project area has been amended, now only a portion of both PADs is located outside of the project area. As a result, ST PAD 01 and ST PAD 02 will be partially impacted by the proposed works resulting in a partial loss of value. At the time the ACHAR was prepared, Str6 PAD had not been identified and was not included in the impact assessment. However, based on the design plans, the entire extent of Str6 PAD will be impacted by the proposed works, resulting in a total loss of value. See **Table 1-1** for a summary of the impact assessment in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW, 2010b).

**Table 1-1 Summary of impacts** 

Site	Type of harm	Degree of harm	Consequence of harm
ST PAD 01	Direct	Partial	Partial loss of value
ST PAD 02	Direct	Partial	Partial loss of value
Str6 PAD	Direct	Total	Total loss of value

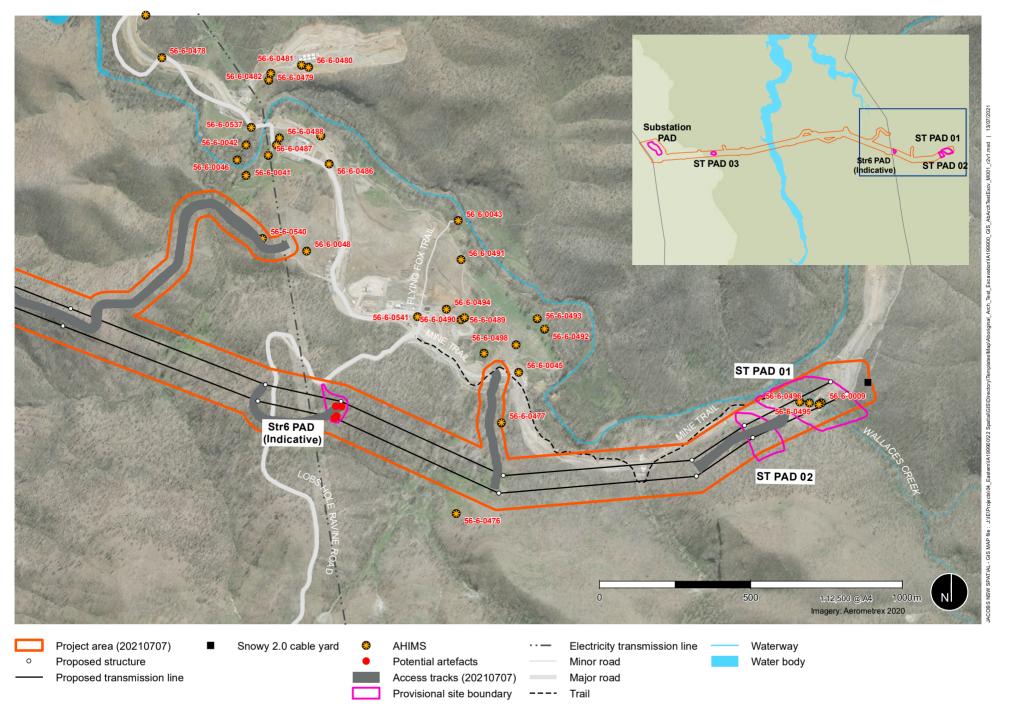


Figure 1-1 | Project overview



## 2. Proposed archaeological test excavation method

## 2.1 Aims of the archaeological test excavation program

The archaeological test excavation program aims to determine whether any Aboriginal objects are present in subsurface deposits within ST PAD 01, ST PAD 02, and Str6 PAD. These areas are proposed to be tested as they were assessed as containing PAD during the recent archaeological survey and site inspection carried out by Jacobs. This assessment was based upon a review of previous archaeological research, a review of the landscape context, an understanding of the local and regional character of Aboriginal land use and its material traces and predictions on the nature and distribution of archaeological evidence. This research and subsequent field survey indicated there was a probability of Aboriginal objects being present in the two areas.

If subsurface Aboriginal artefacts are present, the excavation program aims to gather preliminary information on the nature of the subsurface assemblage. Excavations will provide an understanding of the nature of Aboriginal objects present, an estimate of the density of artefacts across the areas tested, the depth at which artefacts occur the type of sediment they are associated with and if possible the age of the deposits they are found within. This information will be used in the resulting addendum ACHAR as a basis for a significance assessment of the site and its contents and any subsequent recommendations for heritage management mitigation to be taken on the three areas.

The test excavation program will adhere to the requirements of the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010b).

## 2.2 Sample strategy

Where possible, test excavation squares will be placed along linear transects that will span the entire area in which the footprint of proposed impacts overlaps with a zone of archaeological sensitivity or PAD. The footprint will include any buffer zone necessary to cover inadvertent impact to the ground surface and subsurface deposits that might plausibly occur during construction. Based aerial imagery and the results of field investigations, the location of squares will be constrained by the dense woodland present across the project area. As a result, the exact location of the squares would be determined by the supervising archaeologist during the excavation program. No more than 0.5% of the maximum surface area of the PAD will be excavated. An indicative 40 squares at 20 m spacing will likely be excavated across the three areas of PAD (10 squares within Str6 PAD, 10 squares within ST PAD 02, and 20 squares within ST PAD 01). However, the final number of squares placed along each transect, and the spacing between squares, will be determined in the field. Squares will be spaced a minimum of 5 m apart and will be placed in areas to avoid features such as thick vegetation, swampy ground, or outcrops of bedrock.

Variations in microtopography might trigger in-field decisions to concentrate the distribution of squares on particular sections of a transect. Excavation squares will measure 500 mm x 500 mm in dimension. Depending on the size of an area and on time constraints, multiple transects might be laid to adequately test the area. Transects might be parallel to one another or placed perpendicular to each other. If parallel transects are employed, the location of excavation squares on adjacent transects will be offset from one another to minimise the area of unexcavated ground between excavation squares (following Kintigh, 1988).

The Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010b) outlines requirements for when enough information has been retrieved and test excavation must cease. Test excavation at the area of sensitivity must cease when:

- Suspected human remains are encountered
- Enough information has been recovered to adequately characterise the objects present with regard to their nature and significance.



"Enough information" is defined by the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW, 2010b) as "...the sample of excavated material clearly and self-evidently demonstrates the deposit's nature and significance, and may include things like:

- Locally or regionally high object density
- Presence of rare or representative objects
- Presence of archaeological features or locally or regionally significant deposits, whether stratified or not.

If Aboriginal objects have been recovered from a square, additional squares can be excavated nearby if the field team judges that this is necessary to adequately understand the nature of the subsurface assemblage. These additional squares could be placed adjacent to the first square, or at a distance of 5m or more from it. The number of additional squares excavated will depend on the nature of the archaeological material being recovered. Additional squares, if adjacent to one another, cannot make up a combined area of more than 3m<sup>2</sup>. Additional squares, if separate from one another, cannot be closer than 5m (DECCW, 2010b). No excavation unit will exceed a maximum depth of 1.5 m, in accordance with the *Code of Practice: Excavation Work* (NSW Government, 2020).

All recovered material will be catalogued in the field to track archaeological data in real time and guide continuation or cessation of excavation. In-field cataloguing will entail recording the number of artefacts per square, and the types of artefact recovered. All cultural material will be accessible for inspection and comment by RAPs present during the test excavation program.

## 2.3 Archaeological test excavation procedure

Squares will be excavated by hand, using shovels, trowels, mattocks or other hand tools as appropriate depending on the soils and sediments being excavated, and on the nature of any archaeological material encountered. The first square excavated at each area will be excavated in 50 mm spits (following requirements of DECCW, 2010b). Other squares will be excavated in 100 mm spits. If stratigraphic boundaries are present in the sediments being excavated, the excavation of a spit will halt at the stratigraphic boundary when it is encountered. A new spit will then commence below the stratigraphic boundary. In this way, spit boundaries will be made to conform to stratigraphic boundaries.

Due to logistical constraints associated with site access, it will not be possible to wet sieve excavated material. Therefore, all excavated material will be dry sieved through a 5 mm mesh sieve. Sieving will occur over a tarpaulin, as close as practical to the square being excavated, to ensure that the square can be backfilled following the excavation, with minimal loss of excavated sediments.

Each excavation square will be recorded photographically to capture images of the excavated sections and record information on the nature of the deposit and any stratigraphic or soil formation patterning. Where site features such as hearths, are encountered, additional photographic and written recordings will be made. Scaled plans of cultural features and excavated sections will be carried out if the excavation director judges this to be necessary. Digitised recording systems using a hand-held tablet will be the primary recording system, with manual field recording forms used as a backup if judged necessary. The digitised recording system will minimise transcription errors through standardised recording conventions and create efficiency in post-excavation reporting.

Artefacts recovered from excavations will be secured in zip-lock bags, which will be labelled with the artefacts' date of excavation, area/site of excavation, square name/number, spit number, and other contextual information if applicable (e.g. feature or stratigaphic unit). Artefact bags will then be double-bagged within a larger grouping bag, to guard against potential loss during transport. All artefacts will be kept in Jacobs' care while further analysis is undertaken (see Section 2.6). This will take place prior to consultation with registered Aboriginal parties in respect to their long-term safekeeping being decided upon and an application for a Care Agreement under the *National Parks and Wildlife Act 1974* being prepared. Samples of sediments or other materials relating to



Aboriginal activities, such as charcoal, will be taken if judged necessary. If human remains, or suspected human remains, are encountered excavations will cease immediately. A standard procedure will then be followed (see **Appendix A**).

Open excavation units may be fenced off with high visibility bunning around wooden stakes or metal star pickets. Where there is no risk of injury to wildlife or humans, a flag at one corner of the pit may suffice. Each square will be backfilled as soon as it is practical after excavation and recording of that square has ceased.

## 2.4 Participation of RAP representatives in the excavation program

The archaeological test excavation program would be carried out by a single excavation team composed of three Jacobs archaeologists and two Aboriginal representatives. The fieldwork team must include a balance of trained archaeologists and Aboriginal community fieldworkers. Sufficiently trained and experienced archaeologists are needed to direct the activity, maintain records and identify cultural finds. Sufficient Aboriginal community fieldworkers are required to efficiently sieve, dig and experience all aspects of the work through a task rotation roster, according to experience and ability.

Excavations would be carried out over a one-week period. Work would be carried out from Monday morning to Friday evening. The time allocated to each of the sites will be decided in the field, based on the results of excavations as they occur.

## 2.5 Safety and access requirements

Prior to field staff heading to site, Jacobs will have completed and will adhere to the following:

- Complete and check and follow the Snowy 2.0 Visitor Site Access Requirements if accessing Ravine / Lobs Hole area
- Sent the Snowy 2.0 paramedic an email to advise of travel plans prior to travel paramedicsnowy@atlasmedical.com.au
- Notify National Parks and Wildlife Services (NPWS) on expected dates and plans for test excavation works
- Check the RFS bushfire danger rating before heading to site <a href="http://www.rfs.nsw.gov.au/fire-information/fdr-and-tobans">http://www.rfs.nsw.gov.au/fire-information/fdr-and-tobans</a> and understand the evacuation procedures. Do not work when bushfire hazard rating is Extreme or Catastrophic. If High, Very High or Severe fire rating re-assess work requirements and avoid areas where fires are likely.
- Check weather conditions and re-assess work requirements if extreme weather is predicted (i.e. heavy rainfall, high winds, thunderstorms).
- Verify the weather / road conditions before leaving home base.

The text excavations would be completed under the Jacobs HSE field pack. All field staff are required to sign on to this prior to commencing work.

Vehicle/ Equipment Requirements:

- If travelling on unsealed roads, 4WD vehicle preferably Prado, Landcruiser, Hilux or equivalent with similar clearances.
- Vehicle First aid kit (type C)
- UHF radio, preferably in-car
- InReach device (one per party)
- If travelling between 1st June and 31st Oct -



- Alpine diesel in diesel vehicles
- Snow chains (from 1st June to 31st Oct only).

## 2.6 Analysis of recovered artefacts

All material collected in the field will be transported directly from the field to Jacobs' office in Canberra for analysis. This material will be kept in temporary storage by Jacobs during the analysis phase, and until a strategy for permanent storage or repatriation can be implemented.

It is anticipated that most, if not all, of the objects recovered from excavation will be stone artefacts. These will be analysed by a suitably qualified archaeologist. A number of standard attributes will be recorded for every artefact (following requirements of DECCW, 2010b):

- Heat damage
- Post-depositional weathering
- Presence/absence of fresh damage
- Material type
- Artefact type
- Platform surface type
- Platform type
- Termination type
- Cross sectional angle (spine angle) of dorsal surface (flakes only)
- Length in mm
- Width in mm
- Thickness in mm.

A number of additional attributes beyond those required by NSW Department of Planning, Industry and Environment (DPIE) (previously referred to as Office of Environment and Heritage) will also be recorded for each artefact, including:

- Flake fragment category (complete, proximal fragment, distal fragment etc)
- Type of cortex and amount of cortex on dorsal surfaces of flakes
- On retouched flakes, various observations of the retouched edges, including retouch type, invasiveness, height of retouch scars
- On cores, various observations including number of core rotations, the orientation of different platforms to one another, whether the core is bipolar or not
- On ground artefacts such as axe/hatchet heads or grindstones, various observations such as size of the ground area, angle of ground edges.

Photographs will be taken of a representative sample of artefacts, to create a visual record of the general types of artefacts within the assemblage. Atypical artefacts or artefacts of high significance will also be photographed. Images will be taken from several orientations, following procedures for archival-quality artefact photography (Fisher, 2009; Prokop, 1985).



Further analytical techniques might be employed on a sub-sample of artefacts if it is judged that these techniques have the potential to yield information. Further techniques might include functional analysis through examination of residues or use-wear, for example. Any such analyses would be carried out by a suitably qualified specialist.

Any Aboriginal artefacts that are not made from stone will be analysed using appropriate techniques. Analysis would conform to the requirements of the *Code of Practice* (DECCW, 2010b). Specific analysis procedures would be decided following excavation, and would be made from an assessment of the types of artefacts recovered, the materials from which they are made, their condition of preservation, and the information that could be obtained from them.

No destructive analysis of any artefacts will be carried out. Only measurements and observations that have no effect on an artefact's condition will be undertaken.

## 2.7 Management of recovered artefacts

Following transport from the excavation site to Jacobs' Canberra office, all artefacts will be securely stored in a locked cabinet. The location of the artefacts will be recorded on a Jacobs database, to create an electronic record of the date they were depositioned into this temporary storage location.

Artefacts will be stored in the double-bagged resealable bags they were placed in during the excavation program.

Durable labels made from aluminium plate or similar material will be placed inside bags to provide a resilient label of the artefacts' provenance.

Artefacts will be kept in the same temporary storage location until a strategy for repatriation or permanent storage can be implemented. At this point the artefacts will be handed over to their permanent custodian(s). The date of the handover will be recorded on the Jacobs database. If artefacts are reburied, the burial location will be recorded on an Aboriginal Site Recording Form and lodged on the AHIMS.

## 2.8 Documentation and reporting of excavation results

If Aboriginal objects are found during excavation at either area, that area would then be recorded as an Aboriginal site. An Aboriginal Site Recording Form would be completed by Jacobs and lodged on AHIMS.

An ACHAR will be written by Jacobs. The ACHAR will conform to the requirements of the *Code of Practice* (DECCW, 2010b), the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW, 2010a) and the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH, 2011). The report will include:

- A description of the project, the area proposed to be impacted, and the landscape and environmental characteristics of the surrounding region
- A description of the consultation process between Jacobs and RAP groups
- Background information on Aboriginal land-use in the region. This will include information from historical and ethnographic sources, information submitted to Jacobs during the consultation process, and information from previous archaeological studies
- A detailed description of the methods used during the test excavation program
- The results of the test excavation program. This would include an inventory of all Aboriginal objects and all
  measurements and observations made on them, a description of subsurface assemblage(s) discovered in
  the two areas. A discussion of how the site contributes to our understanding of Aboriginal activities in the
  region, incorporating previous archaeological studies, would be included



- An assessment of the significance of any Aboriginal objects and sites discovered by the test excavation program. This would include both scientific significance and cultural significance
- A description of any impacts to Aboriginal heritage that the project would involve, and an assessment of inadvertent impacts that might occur
- A discussion of harm minimisation and management strategies the project proposes to employ
- Recommendations of management actions the project should take to avoid or minimise harm to Aboriginal cultural heritage.

The ACHAR would be circulated to all RAPs in draft form. A 28-day period to review the document and provide input and comments will be provided at this point. The final report, incorporating input from RAPs, will be lodged with DPIE.

## 2.9 Sensitive cultural information management protocol

RAPs will have the opportunity to provide Jacobs with information on the project area and the surrounding region, including information on cultural heritage values. Information will be accepted at any point during the cultural heritage assessment process prior to the finalisation of the ACHAR.

It is possible that during this consultation process, RAPs will provide sensitive cultural information to which access needs to be restricted.

In the event that such information is supplied, the RAP supplying the information should state to Jacobs how they wish that information to be treated, and how access to the information should be restricted.

Jacobs will follow the stated wishes provided by the RAP group in question when managing and using the information provided to Jacobs. All stated restrictions of access, communication and publication of the information will be followed. These might include:

- Restrictions on reproducing the information (in whole or in part) in reports
- Restrictions on reproducing the information in reports provided to different audiences (for example, the version provided to the client, the version provided to DPIE and the AHIMS database)
- Restrictions on communication of the information in other ways
- Restrictions on the location/storage of the information
- Other required processes relating to handling the information
- Any names and contact details of persons authorised within the relevant Aboriginal group to make decisions concerning the information, and their degree of authorisation.
- Any details of any consent given in accordance with customary law
- Any restrictions on access to and use of the information by RAPs.

Please consider the above list when providing your statement of requirements regarding any culturally sensitive information.

#### 2.10 Critical timelines

Critical timelines are outlined in **Table 2-1**. Please note that the following deadlines are estimates at this stage in the process and are provided to allow forward planning of personnel and resources.



Table 2-1 Critical timelines for the project

Project Item	Date
Provision of comments on the proposed methodology presented in this document	Within 28 days from delivery of this document
Archaeological test excavation fieldwork	Commencing 16 August 2021
Provision of the draft addendum ACHAR to RAPs for review.	13 September 2021
Provision of comments on draft addendum ACHAR	Within 28 days from delivery of the draft report
Gathering of information on cultural significance and cultural values associated with Aboriginal objects and places within or relevant to the project area	Ongoing throughout the process until finalisation of the draft addendum ACHAR
Finalisation of the addendum ACHAR in consideration of comments received	15 October 2021

## 2.11 Contact details

For more information and to discuss this project, please do not hesitate to contact:

Ryan Taddeucci	Oliver Macgregor
Senior Archaeologist	Senior Archaeologist
Jacobs	Jacobs
177 Pacific Hwy, North Sydney NSW 2060or	Level 1, 64 Allara Street, Canberra ACT 2601
ryan.taddeucci@jacobs.com	oliver.macgregor@jacobs.com
(02) 9928 2269	(02) 6246 2716



## 3. References

DECCW. (2010a). Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010. Sydney: Department of Environment, Climate Change and Water

DECCW. (2010b). Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW. Sydney: Department of Environment, Climate Change and Water

Dibden, J. 2018 Snowy 2.0 Exploratory Works Aboriginal Cultural Heritage Assessment Report. Archaeological Report, NSW Archaeology Pty Ltd.

Dibden, J. 2019 Snowy 2.0 Main Works: Aboriginal Cultural Heritage Assessment Report, Prepared for Snowy Hydro Limited.

Fisher, L. (2009). *Photography for Archaeologists. Part II: Artefact Recording* (Vol. 26): British Archaeological Jobs Resource.

Kintigh, K. W. (1988). The effectiveness of subsurface testing: a simulation approach. American Antiquity, 53(4).

NSW Government (2020). Code of Practice: Excavation Work. NSW Government.

OEH. (2011). Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW. Sydney: Office of Environment and Heritage

Prokop, E. (1985). A method to photograph stone tools. Journal of Field Archaeology, 12(2), 251 - 255.



## Appendix A. Unexpected discovery of human remains

Should human remains be uncovered during works the following procedures must be followed:

- a) Immediately after remains are exposed, all work is to halt at that location immediately and the Environmental Manager on site is to be immediately notified to allow assessment and management
- b) The Contractor's Environmental Manager (or similar) on site is to notify the INSW Representative
- c) Contact the local NSW Police
- d) Contact DPIE Environment line on 131 555 and the Heritage Branch (Heritage Division) on (02) 9873 8500.
- e) A physical or forensic anthropologist should inspect the remains in situ (organised by the police, unless otherwise directed by the police), and make a determination of ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or forensic)
- f) If the remains are identified as forensic, the area is deemed as a crime scene
- g) If the remains are identified as Aboriginal, the site is to be secured and DPIE and all Aboriginal stakeholders are to be notified in writing
- h) If the remains are identified as non-Aboriginal (historical) remains, the site is to be secured and the Heritage Branch (Heritage Division, OEH) is to be contacted

The above process functions only to appropriately identify the remains and secure the site. From this time, the management of the area and remains is to be determined through one of the following means:

- a) If the remains are identified as a forensic matter, liaise with the police
- If the remains are identified as Aboriginal, liaise with INSW, the OEH and registered Aboriginal stakeholders
- c) If the remains are identified as non-Aboriginal (historical) liaise with INSW, and the Heritage Branch (Heritage Division, DPIE)
- d) If the remains are identified as not being human, then work can recommence once the appropriate clearances have been given



## Appendix B. Heritage NSW submission DOC21/110300



Our ref: DOC21/110300 Your ref: SSI-9717

Anthony Ko
Team Leader
Energy Resource Assessments
Department of Planning, Industry and Environment
Email: anthony.ko@planning.nsw.gov.au

Advice provided via the Major Projects Portal

Dear Mr Ko

## Notice of Exhibition - Snowy 2.0 Transmission Connection Project EIS, Snowy Monaro and Snowy Valley's LGA (SSI 9717)

I refer to your email dated 17 February 2021 seeking comments on the state significant infrastructure (SSI) project for the Snowy 2.0 Transmission Connection Project Environmental Impact Statement (EIS), within the Snowy Monaro and Snowy Valley's Local Government Areas (LGAs). Heritage NSW understands that the proposed development involves the construction and operation of an overhead transmission line connection and substation to connect Snowy 2.0 to the National Electricity Market.

Heritage NSW has reviewed the EIS and documents provided in relation to Aboriginal cultural heritage matters and provides comments below. The following reports were considered in our assessment:

- Environmental Impact Statement: Snowy 2.0 Transmission Connection Project. Report produced by Jacobs for TransGrid, dated February 2021.
- Appendix C Snowy Hydro 2.0 Transmission Connection Project: Aboriginal Cultural Heritage Assessment. Report produced by Jacobs for TransGrid, dated February 2021.

### **Heritage NSW comments**

The Aboriginal Cultural Heritage Assessment Report (ACHAR) identifies a number of Aboriginal sites (56-6-0009, 56-6-0477, 56-6-0495, 56-6-0496 and 56-6-0497) and four potential archaeological deposits (PAD) within the project area. We note however, that some areas of the project remain unsurveyed and untested.

- A program of test excavation has been undertaken for two of the four PADs (ST PAD 03 and Substation PAD), providing knowledge of the nature and significance of these PADs. Two remaining PADs (ST PAD 01 and ST PAD 02) have not been excavated but have been assessed based on assumptions and results from the nearby Snowy 2.0 project. Heritage NSW is concerned that these two PADs, ST PAD 01 and ST PAD 02, have not been test excavated during the EIS process although there has been adequate opportunity for this to occur. The ACHAR itself states the significance of the PADs cannot be comprehensively assessed prior to archaeological test excavation. As such, Heritage NSW cannot make any comment or provide informed recommendations to DPIE regarding the sites ST PAD 01 and ST PAD 02.
- Similarly, Heritage NSW notes the ACHAR (Jacobs 2020) and EIS (Jacobs 2021) identify that some of the impact area, specifically the track atop Sheep Station Ridge, was not

assessed as it could not be accessed and that once access is established it will be surveyed. Heritage NSW cannot make any comment or provide informed recommendations to DPIE regarding this section until it has been assessed.

The management measures provided by Jacobs recommend that both surface collection and salvage excavations be undertaken at selected sites and that a Cultural Heritage Management Plan (CHMP) be prepared. Heritage NSW advises that the preparation of a CHMP, post approval, should not take the role of adequate assessment during the EIS process.

#### Aboriginal cultural heritage advice

As test excavations have not been completed for all PADs within the project area, the full impacts to Aboriginal cultural heritage values remain unknown. As the ACHAR outlines the significance of the untested PADs cannot be comprehensively assessed prior to archaeological test excavation, Heritage NSW recommend DPIE consider whether enough information is available to inform impacts to Aboriginal cultural heritage values. Alternatively, upfront test excavations would inform the significance of the PADs, whether future salvage excavation is required and would allow the proponent to redesign the project to avoid any significant objects or sites if necessary.

As the ACHAR records that no comments have been received from the Registered Aboriginal Parties (RAPs) during the comment period for the draft ACHAR, we recommend additional efforts are made to seek input from the RAPs to ensure the proposed management recommendations are understood. We also note that the consultation log (ACHAR - Appendix A) has not been updated since July 2020 and recommend this be amended to include the attempts and outcomes of consultation that has occurred since that date.

Both the ACHAR and EIS make recommendations for salvage of Aboriginal objects prior to construction. There is however, no indication of how these objects will be managed once collected. Heritage NSW recommends this be clarified and resolved prior to consent approval to avoid any potential conflict between stakeholders. In line with this, we remind the proponent that obligations to obtain other legal instruments, i.e. Care Agreements under section 85 of the *National Parks and Wildlife Act 1974* and the submission of Aboriginal Site Impact Recording Forms remain in force.

If you have any further questions in relation to this advice, please contact myself or John Gilding, Archaeologist, Aboriginal Cultural Heritage Regulation - South, Heritage NSW on 0428 897 811 or email at john.gilding@environment.nsw.gov.au.

Yours sincerely

**Jackie Taylor** 

Senior Team Leader, Aboriginal Cultural Heritage Regulation - South

Heritage NSW 29 March 2021

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## **Appendix C. Consultation records**

Date	To	From	Medium	Brief Description
	Office of the Registrar, Aboriginal Land Rights Act 1983	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
	Brungle-Tumut LALC	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
	National Native Title Tribunal	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
26/Oct/18	NTSC	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
26/Oct/18	OEH	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
26/Oct/18	Riverina Local Land Services	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
26/Oct/18	Snowy Valleys Council	Jacobs	Mail	Requesting details of potential RAPs - Agency Letter
	OEH - Jackie Taylor	Jacobs	Phone	DW called Jackie to inform hewre that we'd yet to receive any RAP lists from OEH. Jackie committed to actionining this asap.
19/Nov/18	Jacobs	Jackie Taylor (OEH)	Email	OEH list of RAPs
		Trudy Crawford (Snowy Valleys		
22/Nov/18	Jacobs	Council)Email	Email	Advice to contact BT LALC
27/Nov/18	Jacobs	Sue Bulger	Email	BTLALC names to be contacted
3/Dec/18	Jacobs	Murra Bidgee Mullangari	Email	Request to register for project
3/Dec/18	Jacobs	Merrigarn	Email	Request to register for project
3/Dec/18	Jacobs	Muragadi	Email	Request to register for project
3/Dec/18	Jacobs	Cherrie Carrol Turrise	By phone	Request to register for project
4/Dec/18	Identified Aboriginal Parties with no mailing address	Jacobs	Email	Stage One invitation to register (based off OEH list)
5/Dec/18	Jacobs	Janine Thompson	Email	Request to register for project
6/Dec/18	Jacobs	Marilyn Carroll-Johnson	Email	Request to register for project
6/Dec/18	Jacobs	Iris White	Email	Request to register for project
10/Dec/18	Registered Aboriginal Parties to date	Jacobs	Email	Confirmation of registration as RAPs for the project
11/Dec/18	Jacobs	PD Ngunawal Consultancy	Email	Request to register for project
12/Dec/18	Jacobs	Luke	Phonecall	Inquiring about registration, will be emailing in.
		Gunjeewong Cultural Heritage Aboriignal		
13/Dec/18	Jacobs	Corporation	Mail	Request to register for project
13/Dec/18	Jacobs	Koomuri Ngunawal Aboriginal Corporation	Email	Request to register for project
14/Dec/18	Jacobs	Yurwang	Email	Request to register for project
,,				
14/Dec/18	Jacobs	Buru Ngunawal Aboriginal Corporation	Email	Request to register for project
17/Dec/18	Jacobs	Alice Williams	Mail	Request to register for project
19/Dec/18	Jacobs	Didge Ngunawal Corporation	Email	Request to register for project
		Griffith Skills Training Centre & Ngumbaay		
21/Dec/18	Jacobs	Indigenous Corporation	Email	Request to register for project
7/Jan/19	Jacobs	Janice Williams	Email	Request to register for project
7/Jan/19	Jacobs	Ramsay Freeman	Email	Request to register for project
7/Jan/19	Jacobs	Megan Considine	Email	Request to register for project
8/Jan/19	Jacobs	Shirley Marlowe	Email	Request to register for project
8/Jan/19	Jacobs	Matthew Marlowe	Email	Request to register for project
8/Jan/19	Jacobs	Lawrence Marlowe	Email	Request to register for project Request to register for project Request to register for project
11/Jan/19	Jacobs	Ron Grovenor	Email	Request to register for project
	Oeh and LALC	Jacobs	Email	Notification of RAPS for project
23/Jan/19 27/Mar/19	Identified Aboriginal Parties	Jacobs	Email	Methodology emailed out to RAPs
			Email	
27/Mar/19	Jacobs	Glen Freeman	<u> </u>	I have no issues with the methodology for this project and look forward to
27/Mar/19	Jacobs	Shaun Carroll	Email	working with you on it.
28/Mar/19	Identified Aboriginal Parties with no address	Jacobs	Mail	Methodology mailed out to RAPs
7/May/19	RAPS (with emaisl)	Jacobs	Email	Attemp to obtain a contact number for Ramsey freeman
8/May/19	Mark Saddler	Jacobs	Phonecall	Attemp to obtain a contact number for Ramsey freeman
		I	L	L
8/May/19	Mark Saddler	Jacobs	Email	Written request for a contact number for Ramsey Freeman, or for the Snowy Mountains Indigenous Elders Group as we do not have contact details
8/May/19	Alice Williams	Jacobs	Phonecall	Unable to get onto, no voice mail. Attempt to pass on information about survey information
8/May/19	Janice Williams	Jacobs	Phonecall	Number has been disconnected
8/May/19	Megan Considine	Jacobs	Phonecall	Small message left- unable to leave full message
8/May/19	Jacobs	Megan Considine	Phonecall	Returning call. Provided email address
8/May/19	Jacobs	Mark Saddler	Email	Providing information to contact Brungle Community Centre or Tumut LALC for Ramsey Freeman's details
9/May/19	Janice Williams	Jacobs	Phonecall	Gave Clare a call in regards to Survey work
9/May/19	Jacobs	Janice Williams	Phonecall	Called Janice back to confirm Alice Williams was registered and obtained her email address
	Supply of document Snowy 2.0 Transmission - Archaeological Te	st Excavation Method		
9/Aug/19	Buru Ngunawal Aboriginal Corporation (BNAC)	Jacobs	email	
9/Aug/19	Corroboree Aboriginal Corporation	Jacobs	email	

9/Aug/19	Didge Ngungural dan	Jacobs	email	
9/Aug/19 9/Aug/19	Didge Ngunawal clan Griffith Skills Training Centre and Ngumbaay Indigenous Corporati		email	
9/Aug/19	Gunjeewong Cultural Heritage Aboriginal Corporation	Jacobs	email	
9/Aug/19	Koomurri Ngunawal Aboriginal Corporation	Jacobs	email	
9/Aug/19	Merrigarn Indigenous Corporation	Jacobs	email	
9/Aug/19	Muragadi Heritage Indigenous Corporation	Jacobs	email	
9/Aug/19	Murri Bidgee Mullangari Aboriginal Corporation	Jacobs	email	
9/Aug/19	Ngarigo Elders	Jacobs	email	
9/Aug/19	Ngunawal Consultancy	Jacobs	email	
9/Aug/19	Walgalu Elder and knowledge holder	Jacobs	email	
9/Aug/19	Yurwang Gundana Consultancy Cultural Heritage Services	Jacobs	email	
9/Aug/19	Janine Thompson	Jacobs	email	
9/Aug/19	Megan Considine	Jacobs	email	
9/Aug/19	Shirley Marlowe	Jacobs	email	
9/Aug/19	Ron Grovenor	Jacobs	email	Email bounced - mailed instead (see below)
9/Aug/19	Ron Grovenor	Jacobs	Mail	
9/Aug/19	Snowy Mountains Indigenous Elders Group	Jacobs	Mail	
9/Aug/19	Janice Williams	Jacobs	Mail	
	Responses to method document			
	Jacobs	Corroboree Aboriginal Corporation (Marilyn		
9/Aug/19	Jacobs	Johnson)	Phonecall	No issues with method. Wish to send site officer.
		Corroboree Aboriginal Corporation (Marilyn		
9/Aug/19	Jacobs	Johnson)	Email	Supplied insurance documents
9/Aug/19	Jacobs	Didge Ngunnawal Clan	Email	Wishes to participate in fieldwork. Supplied insurance.
11/Aug/19	Jacobs	Muragadi	Email	Wishes to participate in fieldwork. Supplied insurance.
11/Aug/19	Jacobs	Merigarn	Email	Wishes to participate in fieldwork. Supplied insurance.
12/Aug/19	Jacobs	Murrabidgee Mullangari	Email	Stated that methodology or site officer information hadn't been received for this project.
12/Aug/19	Jacob	Murrabidgee Mullangari (Darleen Johnson)	Phonecall	Said that email of method document hadn't been received. Oliver re-sent the document to murrabidgeemullangari@yahoo.com.au (see below)
12/Aug/19	Murrabidgee Mullangari	Jacobs	Email	Re-sent the method document following phonecall received from Darleen Johnson.
12/Aug/19	Jacobs	Murra Bidgee Mullangari	Email	Wishes to participate in fieldwork. Supplied insurance.
12/Aug/19	Jacobs	Didge Ngunnawal Clan (Paul Boyd)	Phonecall	Phoned to check that email with insurance documents had come through.
, .,,		100 00 00 00 00 00 00 00 00 00 00 00 00		
				Phoned to express the opinion that since Murrabidgee Mullangari and Merigarn had a turn assisting with the survey, it would be appreciated if his group
12/Aug/19	Jacobs	Didge Ngunnawal Clan (Paul Boyd)	Phonecall	could be given priority supplying a site officer for the test excavation, should such a decision have to be made.
13/Aug/19	Jacobs	Luke Penrith	Email	Stated that he managed the payroll for the survey phase. Wishes to know if we will engage him for this again.
13/Aug/19	Jacobs	Koomurri Ngunawal Aboriginal Corporation	Email (4 emails	Wishes to participate in fieldwork. Provided insurance
20//108/20	340005			
				Wishes to participate in fieldwork. Didn't provide insurance, said that on previous survey they had worked through Luke Penrith who had handled
14/Aug/19	Jacobs	Olivia Williams	Phonecall	insurance cover. OM responded that he would check with AC whether Luke Penrith would be similarly engaged for the test excavation phase.
21/7108/23	340005	Civia trimanis	i iioiiceaii	Wishes to participate in fieldwork. Also stated that Megan Considine and Ramsay Freeman wish to participate. Stated that she would send a follow-up
14/Aug/19	Jacobs	Janice Williams	Phonecall	email, and have Megan Considine send an email as well.
15/Aug/19	Jacobs	Luke Penrith	Email	eman, and have wegan consistence send an eman as wen.  Supplied Pre-Qual document.
	Luke Penrith	Jacobs	Email	Acknowledged receipt of Pre-Qual document.
15/Aug/19 15/Aug/19	Jacobs	Luke Penrith	Email	Asked if the list of RAPs could be shared with him, and if Justine Bell is on the list of RAPs (Jacobs did not reply to these questions).
15/Aug/19	Jacons	Luke Fellilli	EIIIdll	
10/41:2/10	lacobs	Magan Considina	Email	Wishes to participate in fieldwork. Stated that Ramsay Freeman and Janice Williams also wish to participate. All wish to work through Luke Penrith's organisation.
19/Aug/19	Jacobs	Megan Considine Olivia Williams	Email	-
19/Aug/19	Jacobs	Olivia Willidilis	Email	Wishes to participate in fieldwork, representing self. Wishes to work through Luke Penrith for insurance.
20/4/10	1	In all and Additionary	Dis a se a se II	Stated that Roxanne Williams wishes to be involved in fieldwork. Said that Roxanne Williams was involved in the survey phase. Said that she (Janice) would
20/Aug/19	Jacobs	Janice Williams	Phonecall	send a follow-up email on Roxanne Williams' behalf requesting involvement.
21/Aug/19	Luke Penrith	Jacobs	Email	Stated that Jacobs will engage LP's organisation in the same capacity it operated during survey phase.
22/Aug/19	Jacobs	Luke Penrith	email	Acknowledged Jacobs' engagement of LP's organisation
				Stated that Glen Freeman, as a Ngunnawal person, is working off-country for this project and she and her group are unhappy about it. Stated that the
L.,			<u></u>	Elders of her group will write a letter to Jacobs to express their displeasure if Glen is selected to take part in the test-pit field program. Also mentioned
23/Aug/19	Jacobs	Janice Williams	Phonecall	that Jeremiah Freeman also wishes to take part in the fieldwork, and agreed to send an email to Jacobs next week to this effect.
				Stated that he would personally be the field rep for Didge Ngunnawal clan. Also asked where we would be staying during fieldwork. OM said he would
26/Aug/19	Jacobs	Paul Boyd	Phonecall	contact Paul back once Jacobs has organised where its fieldworkers will be accommodated.
				Wishes to supply site officers: Matthew Marlowe, Lawrence Marlowe, Nioka Marlowe, Shirley Marlowe, Nat Barnes. Wish to work through Luke Penrith's
28/Aug/19	Jacobs	Shirley Marlowe	Email	organisation

		1	I	Inquired about fieldwork start date, and whether accommodation would be the same as it was during survey phase. OM informed her that the provisional
2/Sep/19	Jacobs	Murra Bidgee Mullangari (Darleen Johnson)	Phonecall	start date is September 23rd but this isn't solidified yet, and that notification will be sent out as early as possible.
15/Sep/19	Jacobs	Olivia Williams	Email	Inquired when fieldwork is scheduled to start.
16/Sep/19	Jacobs	Gulgunya NHAC	Email	Inquired when fieldwork would start, and for any other details regarding accommodation, attendence, etc.
20/3ср/23	340000	Calgariya iii ii c	Z.man	Informed Gulgunya NHAC that fieldwork has been delayed for an indefinite period. Indicated that Jacobs would update all groups as soon as further
16/Sep/19	Gulgunya NHAC	Jacobs	Email	information on fieldwork timing is available.
.,,	2. 0. 7.		-	Informed Olivia that fieldwork has been delayed for an indefinite period. Indicated that Jacobs would update all groups as soon as further information on
17/Sep/19	Olivia Williams	Jacobs	Phonecall	fieldwork timing is available.
				Informed Luke Penrith that fieldwork has been delayed for an indefinite period. Indicated that Jacobs would update all groups as soon as further
17/Sep/19	Luke Penrith	Jacobs	Emai	information on fieldwork timing is available.
19/Sep/19	Jacobs	Murra Bidgee Mullangari	Email	Asked if fieldwork is still cancelled next week.
				Informed Murra Bidgee Mullangari that fieldwork has been postponed due to the need to test soils for hazardous materials. MBM responded
19/Sep/19	Murra Bidgee Mullangari	Jacobs	Email	acknowledging receipt of email.
				Asked if fieldwork is still cancelled next week. Jacobs responded to inform that fieldwork has been postponed due to the need to test soils for hazardous
19/Sep/19	Jacobs	Muragadi	Email	materials.
19/Sep/19	Muragadi Heritage Indigenous Corporation	Jacobs	Email	Informed Muragadi that fieldwork has been postponed due to the need to test soils for hazardous materials.
				Informed Corroboree Aboriginal Corporation that fieldwork has been postponed due to the need to test soils for hazardous materials. Corroboree
19/Sep/19	Corroboree Aboriginal Corporation	Jacobs	Email	responded acknowledging receipt of email.
20/Sep/19	Shirley Marlowe	Jacobs	Email	Informed Shirley, Matthew and Lawrence Marlowe that fieldwork has been postponed due to the need to test soils for hazardous materials.
20/Sep/19	Merrigarn Indigenous Corporation	Jacobs	Email	Informed Merrigarn Indigenous Corporation that fieldwork has been postponed due to the need to test soils for hazardous materials.
20/Sep/19	Alice and Olivia Williams	Jacobs	Email	Informed Alice and Olivia Williams that fieldwork has been postponed due to the need to test soils for hazardous materials.
20/Sep/19	Megan Considine	Jacobs	Email	Informed Oliva Considine that fieldwork has been postponed due to the need to test soils for hazardous materials.
20/Sep/19	Jacobs	Megan Considine	Email	Acknowledged Jacob's email informing of fieldwork postponement.
20/Sep/19	Jacobs	Shirley Marlowe	Email	Acknowledged Jacob's email informing of fieldwork postponement.
	Informing RAPS of rescheduling			
4/Oct/19	Luke Penrith	Jacobs		Informed of rescheduled fieldwork dates
4/Oct/19	Alice and Olivia Williams	Jacobs	Email	Informed of rescheduled fieldwork dates
4/Oct/19	Megan Considine	Jacobs	Email	Informed of rescheduled fieldwork dates
4/Oct/19	Shirley, Matthew, Lawrence Marlowe	Jacobs	Email	Informed of rescheduled fieldwork dates
4/Oct/19	Ron Grovenor	Jacobs	Phonecall	Informed of rescheduled fieldwork dates
4/Oct/19	Olivia Williams	Jacobs	Phonecall	Informed of rescheduled fieldwork dates
4/Oct/19	Jacobs	Corroboree Aboriginal Corporation	Email	Asked for any updates on the project
				State of the state
0/0-+/10	1	Chialan Mandania	Email	Put forward three people as available Sites Officers: Matthew Marlowe, Lawrence Marlowe, and Kieren Marlowe. Asked whether there are induction
8/Oct/19 8/Oct/19	Jacobs Jacobs	Shirley Marlowe Olivia Williams	Email	processes that will need to be completed, and asked for any information on accommodation and fieldwork logistics.  Stated that she is available for the week of October 21 to 26
9/Oct/19	Jacobs	Corroboree Aboriginal Corporation	Email	Asked for any updates on the project
3/001/13	Jacobs	Corroboree Aboriginal Corporation	Liliali	Assect for any updates on the project
9/Oct/19	Jacobs	Janice Williams	Phonecall	Stated that Janice Williams, Ronald Grovener, Megan Considine, and Ramsay Freeman are all available for the week of October 21 to 26.
3/001/13	340003	Junice williams	THORICCUII	Stated that sunce Williams, Noticial Groverier, Wegair Constaine, and harmsay Freeman are an available for the week of October 21 to 20.
				Informed Murra Bidgee Mullangari that a decision has been made to limit fieldwork participation to groups based in the local area, and that an email
				would be sent to provide formal notification of this. MMB requested the contact details of a contact person from the client that they can discuss the
				decision with. Jacobs stated that this decision is one that Jacobs is responsible for, and that contact details of the appropriate contact person with the
9/Oct/19	Jacobs	Murra Bidgee Mullangari (Darleen Johnson)	Phonecall	client would be supplied to MBM. MBM expressed an intention to appeal against this decision.
9/Oct/19	Jacobs	Muragadi	Email	Asked for any updates on the project
9/Oct/19	Jacobs	Merigarn	Email	Asked for any updates on the project
9/Oct/19	Murra Bidgee Mullangari	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
9/Oct/19	Koomurri Ngunawal Aboriginal Corporation	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
9/Oct/19	Didge Ngunawal clan	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
9/Oct/19	Merrigarn Indigenous Corporation	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
9/Oct/19	Muragadi Heritage Indigenous Corporation	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
9/Oct/19	Corroboree Aboriginal Corporation	Jacobs	Email	Emailed notification of the decision to restrict fieldwork participation to groups based in the project's local area
				Expressed unhappiness and disappointment with the decision to exclude Didge Ngunawal Clan from the fieldwork program. Stated that their group has
9/Oct/19	Jacobs	Didge Ngunawal Clan	Phonecall	demonstrable geneological links with the project area. The reasons for the decision were discussed.
				Expressed unhappiness with the decision to exclude Didge Ngunawal Clan from the fieldwork program. Outlined examples of their connection to the area
9/Oct/19	Jacobs	Didge Ngunawal Clan	Email	through father and grandfather.
				Expressed unhapiness with the decision to exclude Merrigarn from the fieldwork program. Stated that Merrigarn was under the impression they would be
1				included in fieldwork. Stated that they hold a cultural connection to the area, and that residence of an area isn't stated in OEH regulations as a criteria on
9/Oct/19	Jacobs	Merrigarn Indigenous Corporation	Email	which connection is judged. Enquired if Jacobs is a member of the archaeological association.

Stated that Corrobores view the decision as an unfair one, and that a fair solution would be to employ all RAPs has no a roster basis.		I	1	1	
social process of the programment reproduction.  Accordance and process of the decision and exclusions on finestonance engagerous temperatures.  Accordance and the process of the programment of the following the process of the programment of the following temperature by the following the process of the programment of the following temperature by the following the process of the programment of the following temperature by the following temperature					
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which of the season of the commence of the season of t	9/Oct/19	Merrigarn Indigenous Corporation	Jacobs	Email	fieldwork caused by the delay made decisions on fieldworker employment impracticable.
which of the season of the commence of the season of t					
Security services. When the Security services are security or a contact certain for a product certain for a contact certain for a product certain for a contact certain for a co					
Account of the process of the segment of the process and so one processor the supprise as common processor than shart in forcing with the processor of the segment of some processor than shart in forcing with the processor of the segment of the processor as common processor than shart in forcing with the processor of the segment of the processor as common processor than the processor of the processor as common processor than the processor as co					
Security sec	9/Oct/19	Jacobs	Murra Bidgee Mullangari	Email	
Discussed to describe the decision is negative three depoles and correleves disapplatement and disapplatemen					
Section   Commonwealth Composition   Prescription	9/Oct/19	Jacobs	Murra Bidgee Mullangari	Email	, ,
Second					Discussed the decision to restrict fieldwork participation to groups based in the project area. Corroboree expressed unhappiness and disappointment that
records an expended and expende	9/Oct/19				
the basis of the same stands that their professor for followers employment would be a rotate including all SAPs. Combines of the same stands of th	9/Oct/19	Jacobs	Corroboree Aboriginal Corporation	Email	Stated that Corroborree view the decision as an unfair one, and that a fair solution would be to employ all RAPs on a roster basis.
Feels but the decision implies that the propose a not connected on the land in quastion. Requested that taply be employed in the event that other RAV are available.    Proposed					Provided an expanded discussion outlining Corroboree Aboriginal Corporation's view that the decision is unfair and discriminates against their group on
Stock   Conforce Abortiginal Corporation   Final   American   Am					the basis of the area in which they are based. Stated that their preference for fieldwork employment would be a roster including all RAPs. Corroboree
sheep Markeem and soos spaying to the potential Stac Officers of the normalized.  300/01/39 0005					feels that this decision implies that their group is not connected to the land in question. Requested that they be employed in the event that other RAPs
	9/Oct/19		ů :	-	
Repeated for many Repeated with margin stopes wit	10/Oct/19	Shirley Marlowe	Jacobs	Email	Informed Shirley that the there are no issues regarding site access applying to the potential Sites Officers she has nominated.
the Circles Looks informed water that the contact detail for an appropriate contact point from the client are being sought and will be flowwarded as soon as possible.    State of the property of the season of the	10/Oct/19	Jacobs	Shirley Marlowe	Email	Thanked Jacobs for information on site access. Provided suggestions on fieldwork allocation for individuals from her group.
1906/179    2005   Sooth   Murra Bidger Mullangari   Ponceal   Safet that the is available for the week of October 21 to 26					Repeated Murra Bidgee Mullangari's view that the decision discriminates against their group unfairly. Requested contact details for a contact person from
1906-1739 laceds   Search 1906-1739 laceds					the client. Jacobs informed MBM that the contact details for an appropriate contact point from the client are being sought and will be forwarded as soon
Referred to an earlier phone conversation between Murra Bidgee Mullangari and Chris Page. Asked who had made the decision to limit the RAP involved in feldows. Re asserted an ancestral/family connection to the land in question, Stated that Murra Bidgee Mullangari we the decision as discriminatory, and that they were to be included in the Riddows, prior to being informed of the decision. The Rapper of Transgrid Abo cod were Murra Bidgee Mullangari we the decision as discriminatory, and that they were used under the impression for the they were contacted in that figure with the Chris Page in which Chris Page in Chris Page in Which Chris Page in Which Chris Page in Chris Page in Which Chris Page in Chris Page in Chris Page in Chris Page in	10/Oct/19	Jacobs		Phonecall	
Application	10/Oct/19	Jacobs	Roxanne Williams	Phonecall	Stated that she is available for the week of October 21 to 26
Application					
And that they were under the impression that they were to be included in the fieldwork, prior to being informed of the decision.					Referred to an earlier phone conversation between Murra Bidgee Mullangari and Chris Page. Asked who had made the decision to limit the RAPs involved
Seponded to a entail from Chris Page in which Chris salde we would raise MBM's concerns with Sherric Castaldini, Transgrids Indigenous Engagement Office, Nurs Bioge Mulliangs 1 stated that they was contacted fair that decision. Rest acted that MBM would list the be involved in the fieldwork.  Stated that while Xoomurri do not begrudge the groups based closer to the project area being given preference in terms of fieldwork representation, Xoomurri does not regard the decision as being fair to individuals or groups who have moved away from their traditional country for reasons unrelated to Accommend on the band.  14/0ct/19  Incobe  Koomurri Ngunawal Aborignal Corporation  Email  Abded for information on fieldwork ingoitizes  Tamil Supplied information on fieldwork ingoitizes  Tamil Supplied information on Per requirements, information for the Abded that final rotter would be provided as soon as possible.  14/0ct/19  Incobe  Megan Considine  Tamated factors for supply of fieldwork information on Per requirements, information from Transgrid regarding decision to limit field participation. Stated that if Murra Bidgee Mulliangari had decision had any further information from Transgrid regarding decision to limit field participation. Stated that if Murra Bidgee Mulliangari had decision being reversed today they would pursue legal action including action for other income.  15/0ct/19  Incobe  Murra Bidgee Mulliangari  Tamated dacobs for supply of fieldwork information from Transgrid regarding decision to limit field participation. Stated that if Murra Bidgee Mulliangari had decision being reversed today they would pursue legal action including action for other income.  Abded Weither Jacobs had any further information from Transgrid regarding decision to limit field participation. Stated that if Murra Bidgee Mulliangari had contact the fedework logistics, and the fieldwork income of the properties and the fedework income of the properties actual form the feditorion to receive word of the received word of the received wor					in fieldwork. Re-asserted an ancestral/family connection to the land in question. Stated that Murra Bidgee Mullangari view the decision as discriminatory,
Officer. Murra Bidgee Mullangari stated that they have contacted fair trading in regard to the decision. Restated that MMW would like to be involved in the federoxic.    Murra Bidgee Mullangari   Familia	10/Oct/19	Jacobs (cc'd on message to Chris Page of Transgrid)	Murra Bidgee Mullangari	Email	and that they were under the impression that they were to be included in the fieldwork, prior to being informed of the decision.
19.0ct/19 19.0cbs 19.0					Responded to an email from Chris Page, in which Chris said he would raise MBM's concerns with Sherrie Castaldini, Transgrid's Indigenous Engagement
Stated that while Koomurri on begrudge the groups based closer to the project area being given preference in terms of fieldwork representation, while Koomurri Ogenome and Support of the project area being given preference in terms of fieldwork representation, own multiple of the project area being given preference in terms of fieldwork representation, own multiple of the project area being given preference in terms of fieldwork representation, own multiple of the project area being given preference in terms of fieldwork presentation, own multiple days of the project area being given preference in terms of fieldwork presentation. Asked for information on fieldwork logistics, information on fieldwork logistics, information on fieldwork flogistics, and the flogistics, and the					Officer. Murra Bidgee Mullangari stated that they have contacted fair trading in regard to the decision. Re-stated that MBM would like to be involved in
Somuri Rigurawal Aboriginal Corporation 15/00rd/19 15/0	10/Oct/19	Jacobs (cc'd on message to Chris Page of Transgrid. Also ccd were	Murra Bidgee Mullangari	Email	the fieldwork.
Mort/19   Jacobs   Communication of the land.   Mort/19   Jacobs					Stated that while Koomurri do not begrudge the groups based closer to the project area being given preference in terms of fieldwork representation,
Acades   A					Koomurri does not regard the decision as being fair to individuals or groups who have moved away from their traditional country for reasons unrelated to
14/Oct/19   All fieldworkers   Jacobs   Email   Indicated that fieldwork logistics information would be supplied today   Supplied Information on PPE requirements, informed RAPs that final roster would be provided as soon as possible.	10/Oct/19	Jacobs	Koomurri Ngunawal Aboriginal Corporation	Email	their cultural connection to the land.
14/Oct/19   Alcobs	14/Oct/19	Jacobs	Olivia Williams	Email	Asked for information on fieldwork logistics
14/Oct/19 Jacobs Shirley Marlowe Shirley Marlo	14/Oct/19	Olivia Williams	Jacobs	Email	Indicated that fieldwork logistics information would be supplied today
14/Oct/19 Jacobs  Darleen Johnson Dilyot/19 Jacobs (also ccd Sherric Castaldini, Chris Page and Paul Broad of Ti Murra Bidgee Mullangari Dilyot/19 Jacobs Darleen Johnson Dilyot Williams Email Thanked Jacobs for supply of fieldwork information (email of the 14th) Stated that Murra Bidgee Mullangari understood they had been engaged to be employed on the upcoming fieldwork, prior to the decision to limit the number of groups participating. Stated that they believe the decision to be discriminatory and contravening the Racial Art 1375. Stated that Murra Bidgee Mullangari have contacted the Human Rights Commission, and are considering lodging a complaint against Jacobs and Transgrid. Asked for the contact details of the appropriate contact person at Transgrid, as Darleen understands the previous contact she was communicating with is now on leave.  Email Mullangari have contacted the Human Rights Commission, and are considering lodging a complaint against Jacobs and Transgrid. Asked for the contact details for the appropriate contact person at Transgrid, as Darleen Johnson Da	14/Oct/19	All fieldworkers	Jacobs	Email	Supplied information on PPE requirements, informed RAPs that final roster would be provided as soon as possible.
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Asked whether Jacobs had any further information from Transgrid regarding decision to limit field participation. Stated that if Murra Bidgee Mullangari had not received word of the decision being reversed today they would pursue legal action including action for lost income.  14/Oct/19 Jacobs Janice Williams Phonecall Sizoct/19 Jacobs Darleen Johnson Divia Williams Divia	14/Oct/19	Jacobs	Shirley Marlowe	Email	Thanked Jacobs for supply of information on fieldwork PPE requirements. Provided suggestions of fieldworker allocation from her group.
Add not received word of the decision being reversed today they would pursue legal action including action for lost income.	14/Oct/19	Jacobs	Megan Considine	Email	Thanked Jacobs for supply of fieldwork information
Add not received word of the decision being reversed today they would pursue legal action including action for lost income.					
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	12/Feb/20	Jacobs	Olivia Williams	Email	
12/Feb/20 Olivia Williams Jacobs Email assessment of heritage in light of recent bushfire impacts to the project area.					
	12/Feb/20	Olivia Williams	Jacobs	Email	assessment of heritage in light of recent bushfire impacts to the project area.

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				Stated that the Aboriginal community have thoughts on extra assessment work they would like to see happen in light of the bushfires. Informed Jacobs
25/Feb/20	Jacobs	Janice Williams	Phonecall	that an email would be sent outlining their wishes.
				Stated, as elders of the Wiradjuri/Wolgalu Nations, that they would like further archaeological works to be carried out in the project area. The bushfires in
				the area would have exposed the ground surface and created the potential for more sites to be uncovered. They see this as providing a 'great opportunity
27/Feb/20	Jacobs	Ramsay Freeman and Winifred Marlowe	Letter via email	for the Aboriginal community to get in to carry out more extensive archaeological works in the area'.
		Ramsay Freeman, Ronald Grovenor, Janice		
		Williams, Matthew Marlowe, Lawrence		
		Marlowe, Bradley Freeman, Adrian O'Brien,		Stated, as Sites Officers, that they would like further archaeological works to be carried out in the project area. The bushfires in the area would have
		Megan Considine, Teisha Freeman, Brittany		exposed the ground surface and created the potential for more sites to be uncovered. They see this as providing a 'great opportunity for the Aboriginal
27/Feb/20	Jacobs	Minogue	Letter via email	community to get in to carry out more extensive archaeological works in the area'.
				Discussed the current state of the project, for Olivia to relay to other members of the BTLALC and site officers. Informed Olivia that the project is still
11/Jul/20	Olivia Williams	Jacobs	Phonecall	ongoing, with the ACHAR in preparation.
	Test excavation methodology August 2021 excavation	Outgoing		The state of the s
14/Jul/21	Mr Walter R Bell	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
	Marilyn Carroll-Johnson	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Lillie Carroll	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Luke Penrith	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021  Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21		Jacobs		57
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	Glen Freeman	Jacobs		Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Shaun Carroll	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
	Jesse Johnson	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Darleen Johnson	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Iris White	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Peiro Delponte	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Alice Williams	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Dean Bell	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Janine Thompson	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Megan Considine	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Shirley Marlowe	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Matthew Marlowe	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Lawrence Marlowe	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Ron Grovenor	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Brungle/Tumut Local Aboriginal Land Council	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Olivia Williams	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Roxanne Williams	Jacobs	Email	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
	Ramsay Freeman	Jacobs	Letter	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
15/Jul/21	Dean Bell	Jacobs	Letter	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
15/Jul/21	Janice Williams	Jacobs	Letter	Invitation to review and comment on test excavation methodology, Comments due 12 August 2021
15/Jul/21	Ron Grovenor	Jacobs	Letter	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
	Brungle/Tumut Local Aboriginal Land Council	Jacobs	Letter	Invitation to review and comment on test excavation methodology. Comments due 12 August 2021
15/301/21	Test excavation methodology August 2021 excavation	Incoming	Letter	initiation to review and comment on test excavation methodology. Comments due 12 August 2021
14/Jul/21	Jacobs	Lillie Carroll	Email	Areas with the areassed test avecuation methodology. Use a family connection to the land and identifies as a traditional away.
				Agrees with the proposed test excavation methology. Has a family connection to the land and identifies as a traditional owner.  Email delivery failure
14/Jul/21	Jacobs	0 1	Email	,
14/Jul/21	Jacobs	Dean Bell	Email	Email delivery failure
16/Jul/21	Jacobs	Jesse Johnson	Email	Agrees with the proposed test excavation methdology.
3/Aug/21	Jacobs	Glen Freeman	Email	No comment at this stage
8/Aug/21	Jacobs	Darleen Johnson	Email	Agrees with the proposed test excavation methdology.
10/6 /2:	Addendum ACHAR	Outgoing	F 11	
	Mr Walter R Bell	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
	Marilyn Carroll-Johnson	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
	Lillie Carroll	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
	Luke Penrith	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Cherie Carroll Turrise	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Glen Freeman	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Shaun Carroll	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Jesse Johnson	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Darleen Johnson	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Iris White	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Peiro Delponte	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
	Alice Williams	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
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10/Sep/21	Dean Bell	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Janine Thompson	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Megan Considine	Jacobs	Email	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
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10/Sep/21	Ron Grovenor	Jacobs	Letter	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
10/Sep/21	Brungle/Tumut Local Aboriginal Land Council	Jacobs	Letter	Invitation to review and comment on Addendum ACHAR. Comments due 11 October 2021
	Addendum ACHAR	Incoming		
10/Sep/21	Jacobs	Lillie Carroll	Email	Agrees with the proposed test excavation methdology. Has a family connection to the land and identifies as a traditional owner.
10/Sep/21	Jacobs	Brungle/Tumut Local Aboriginal Land Counci	Email	Email delivery failure
10/Sep/21	Jacobs	Dean Bell	Email	Email delivery failure

From: Taddeucci, Ryan

Sent: Wednesday, 14 July 2021 6:04 PM

**To:** Taddeucci, Ryan

**Subject:** Snowy Hydro 2.0 - Test excavation methodology

Attachments: IA199900 Archaeological Test Excavation Method Rev01 20210714.pdf

#### Good evening,

Jacobs, on behalf of Transgrid, are providing an archaeological test excavation methodology document to all Registered Aboriginal Parties (RAPs) and cultural knowledge holders for the Snowy 2.0 Transmission Line Connection Project.

You are invited to read through the attached document, which sets out the proposed method for carrying out test excavations and the areas in which these excavations are proposed to occur. If you would like to comment on the provided methodology, please provide your response by **12 August 2021**.

Please address your response to me via return email.

Kind regards, Ryan

Ryan Taddeucci, Master of Museum Studies, Grad Dip Maritime Archaeology, BA (Hons)
Archaeology | Jacobs | Senior Archaeologist, Archaeology and Cultural Heritage (Asia Pacific),
Environmental Solutions
M:+61.423.381.482 | Ryan.Taddeucci@jacobs.com
177 Pacific Highway | North Sydney NSW 2060 | Australia

From: lilly carroll <didgengunawalclan@yahoo.com.au>

Sent: Wednesday, 14 July 2021 8:14 PM

**To:** Taddeucci, Ryan

**Subject:** [EXTERNAL] Re: Snowy Hydro 2.0 - Test excavation methodology

Hi Ryan

Dnc agrees to all proposal of the test excavation methodology

Dnc holds a lot of cultural knowledge to this land its where my ancestors and great grandparents and grandparents and my father Phillip carroll was born on at blacks camps my grandfather James carroll was a black tracker and would do he's black tracking all over the snow mountains and beyond also my father Phillip carroll was a drover and would travel all the way to the Melbourne border

I hope to be a part of this test excavation. Didge ngunawal clan is a traditional owner of this land

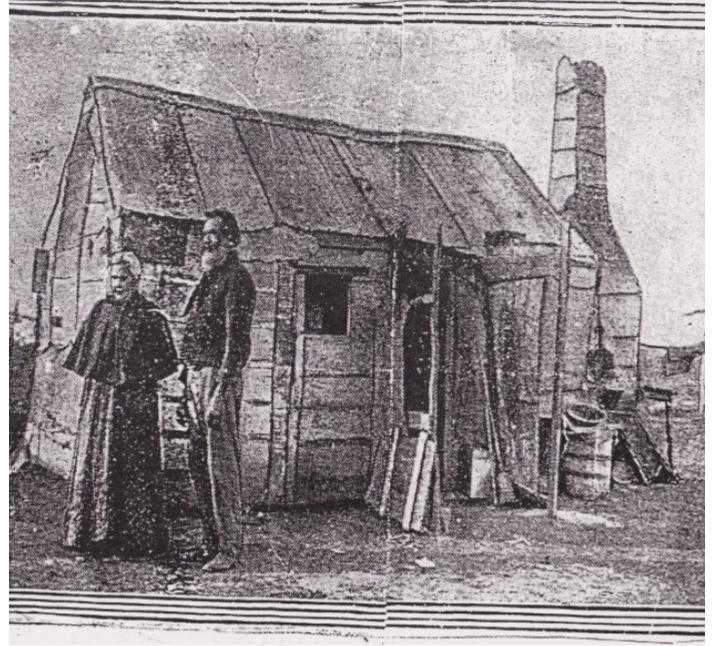
Kind regards DNC Lilly carroll & Paul Boyd 0426823944

The pictures have my great great grandparents &

The other picture has my father Phillip carroll uncle Don Bell carroll aunty dot carroll my cousin Cyril Phillips true ngunnawal Elders

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## ABORIGINALS AT NORTH YASS.





# image1.jpeg

Nation urged to look to the future, not the past



es: PETER WELLS in Churches' Centre yesterday. Below, Sir Ronald yesterday.

s, from left, Don Bell, and Cyst Dorothy and Phillip Carroll with the plaque universed at By GRAHAM DOWNIE.

Religion reporter

St Ninian's Uniting Church Lyncham, a refuge for a former High Court judge, marked its 125th anniversary sesterday with that judge as its guest preacher.

Sir Rosald Wilson was with the court from 1979 to 1989 and worshipped at St. Ninian's when in Camberra. Yesterday, he told the packed church that the formal conventions and courtesies surrounding his position at the high Court -did not really suit my lifestyle". "St. Ninian's provided a refuge Ninian's provided a refuge where I could just be myself.

Ron Wilson, with my hands in the washing up bowl and an ordinary member of the congregation." he said.

He encouraged people not to focus on the failures of yesterday. "Today is a clean page ready for a new begin-ning." he said.

Sir Ronald is a former Moderator of the Presbyterian and Uniting churches in Western Australia and was President of the Uniting Church from 1985-88. He had had an "exciting retirement" which had included being president of the Human Rights Commission.

\*Looking back over my life it has been the cream on

the cake - a highlight," he

It included three years on the Council for Aboriginal Reconciliation and, more re-cently, chairing the national inquiry into the removal of Aboriginal children from their families and communi-

Jesus had wept over Jeru-salem because its people had failed to recognise God's mo-ment. Sir Ronald said. "Aus-tralia is poised to participate in one of God's greatest mo-ments — the reconciliation ments — the reconciliation of a nation." He urged peo-ple not to miss this moment.

On Saturday. Sir Ronald took part in a ceremony at

the Belconnen Churches Cen-tre which acknowledged that it had been built on tradi-tional land of the Ngunawal

Last night in Garema Place, he addressed a service for all faiths which marked the end of the National Multicultural Festival '98. He said the biggest obstacle to reconciliation was fear of difference. People could develop a closed-fist mentality or choose the way of love — of open-handed acceptance.

"People of faith will point to the way of love every time," Sir Ronald said. To-getherness came through in all sacred writings.

Anglicar apologis to stoler children

By GRAHAM DOW

and AAP

An apology for the rei
Aboriginal childre
their families has I
pressed by the Gener
of the Anglican Ch
Australia.

The apology came yest
ter a two-hour deb
motion moved by th
bishop of Brisbane, F
lingworth. It acknow
the hurt and traum
by the unjustified re by the unjustified re

the children. In the motion, the Chu ogised unreservedly part played knowing wittingly by it which tributed in any way hurt and trauma an Church's silence on

Church's silence on The synod, meeting in called on all Anglic cies and Anglicans t ate in the implemen far as practicable, c commendations of the Bringing Them Hom Human Rights and I portunities Commiss so called on Anglica by politicians to Australian Governm Australian Governm a formal apology to

nes.
spokesman for the
Greg Harvey, said it
a very powerful de
heart-rending spe
many Aborigines,
other Aborigines
served the debate
synod gallery.

Earlier, the Primate glican Church of and Archbishop of and Archbishop of Dr Keith Rayner, s found it strange Prime Minister, . ard, had not offere gy on behalf of the cause it would symbolic.

He said Mr Howard ly used the argu symbolism was the pelling argument for to a republic at the tional convention.

Dr Rayner said, "I s to Aboriginal peopl gy carries a weight white Australia scarcely begun stand".

#### Sent from Yahoo Mail on Android

On Wed, 14 Jul 2021 at 6:04 pm, Taddeucci, Ryan <Ryan.Taddeucci@jacobs.com> wrote:

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Good	CVCIII	1115

Jacobs, on behalf of Transgrid, are providing an archaeological test excavation methodology document to all Registered Aboriginal Parties (RAPs) and cultural knowledge holders for the Snowy 2.0 Transmission Line Connection Project.

You are invited to read through the attached document, which sets out the proposed method for carrying out test excavations and the areas in which these excavations are proposed to occur. If you would like to comment on the provided methodology, please provide your response by **12 August 2021**.

Please address your response to me via return email.

Kind regards,

Ryan

Ryan Taddeucci, Master of Museum Studies, Grad Dip Maritime Archaeology, BA (Hons) Archaeology | Jacobs | Senior Archaeologist, Archaeology and Cultural Heritage (Asia Pacific), Environmental Solutions

M:+61.423.381.482 | Ryan.Taddeucci@jacobs.com 177 Pacific Highway | North Sydney NSW 2060 | Australia

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From: Glen Freeman <GulgunyaNHAC@hotmail.com>

Sent: Tuesday, 3 August 2021 4:32 PM

**To:** Taddeucci, Ryan

**Subject:** [EXTERNAL] Re: Snowy Hydro 2.0 - Test excavation methodology

To whom it concerns,

Not being able to travel(Covid) makes it impossible for me to comment on this stage of the project.

Sent from Outlook

From: Taddeucci, Ryan < Ryan. Taddeucci@jacobs.com >

Sent: Wednesday, 14 July 2021 6:03 PM

**To:** Taddeucci, Ryan <Ryan.Taddeucci@jacobs.com> **Subject:** Snowy Hydro 2.0 - Test excavation methodology

Good evening,

Jacobs, on behalf of Transgrid, are providing an archaeological test excavation methodology document to all Registered Aboriginal Parties (RAPs) and cultural knowledge holders for the Snowy 2.0 Transmission Line Connection Project.

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Please address your response to me via return email.

Kind regards, Ryan

Ryan Taddeucci, Master of Museum Studies, Grad Dip Maritime Archaeology, BA (Hons) Archaeology | Jacobs | Senior Archaeologist, Archaeology and Cultural Heritage (Asia Pacific), Environmental Solutions

M:+61.423.381.482 | Ryan.Taddeucci@jacobs.com

177 Pacific Highway | North Sydney NSW 2060 | Australia

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From: Sent: To:	jesse johnson <muragadi@yahoo.com.au> Friday, 16 July 2021 4:02 PM Taddeucci, Ryan</muragadi@yahoo.com.au>
Subject: Attachments:	[EXTERNAL] Re: Snowy Hydro 2.0 - Test excavation methodology IA199900 Archaeological Test Excavation Method Rev01 20210714.pdf
Hi Ryan I have read the project information recommendations made. Kind regards Jesse Johnson 0418970389	on and test excavation methodology for the above project, I agree with the
On Wednesday, 14 July 2021, 0	6:04:25 pm AEST, Taddeucci, Ryan <ryan.taddeucci@jacobs.com> wrote:</ryan.taddeucci@jacobs.com>
Good evening,	
	are providing an archaeological test excavation methodology document to all APs) and cultural knowledge holders for the Snowy 2.0 Transmission Line
excavations and the areas in wh	the attached document, which sets out the proposed method for carrying out test ich these excavations are proposed to occur. If you would like to comment on the rovide your response by <b>12 August 2021</b> .
Please address your response to	o me via return email.
Kind regards,	
Ryan	
	seum Studies, Grad Dip Maritime Archaeology, BA (Hons) Archaeology   Jacobs ogy and Cultural Heritage (Asia Pacific), Environmental Solutions
M:+61.423.381.482   Ryan.Tadd 177 Pacific Highway   North Syd	eucci@jacobs.com ney NSW 2060   Australia

From: Mail Delivery Subsystem <MAILER-DAEMON@mx0a-0025cf01.pphosted.com>

**To:** btlac@bigpond.net.au

Sent: Wednesday, 14 July 2021 6:04 PM

**Subject:** Undeliverable: Snowy Hydro 2.0 - Test excavation methodology

The original message was received at Wed, 14 Jul 2021 08:03:49 GMT from m0145505.ppops.net [127.0.0.1]

----- Transcript of session follows ----- ... while talking to extmail.bpbb.bigpond.com.:

>>> DATA

<<< 550 5.1.1 <a href="mailto:state-10">btlac@bigpond.net.au</a> recipient rejected. Recipient does not exist. IB603a

550 5.1.1 <a href="mailto:550">551.1</a> <a href="mailto:550">552 DATA Transaction failed, no recipients given

From: Mail Delivery Subsystem <MAILER-DAEMON@mx0a-0025cf01.pphosted.com>

**To:** yurwang\_gundana@bigpond.com; megan\_considine@live.com

Sent: Wednesday, 14 July 2021 6:04 PM

**Subject:** Undeliverable: Snowy Hydro 2.0 - Test excavation methodology

The original message was received at Wed, 14 Jul 2021 08:03:51 GMT from m0145505.ppops.net [127.0.0.1]

----- The following addresses had permanent fatal errors ----- <yurwang\_gundana@bigpond.com> (reason: 550 5.1.1 <yurwang\_gundana@bigpond.com> recipient rejected. Recipient does not exist. IB603a) <megan considine@live.com>

(reason: 550 5.5.0 Requested action not taken: mailbox unavailable (S2017062302). [DB5EUR03FT038.eop-EUR03.prod.protection.outlook.com])

----- Transcript of session follows ----- ... while talking to extmail.bigpond.com.:

>>> DATA

<<< 550 5.1.1 <yurwang\_gundana@bigpond.com> recipient rejected. Recipient does not exist. IB603a 550 5.1.1 <yurwang\_gundana@bigpond.com>... User unknown ... while talking to mailforward.simplesite.com.: >>> DATA

<<< 451 4.7.1 <wally@buru-ngunawal.com>: Recipient address rejected: Greylisted for 1 minutes <wally@buru-ngunawal.com>... Deferred: 451 4.7.1 <wally@buru-ngunawal.com>: Recipient address rejected: Greylisted for 1 minutes <<< 554 5.5.1 Error: no valid recipients ... while talking to live-com.olc.protection.outlook.com.:

>>> DATA

<<< 550 5.5.0 Requested action not taken: mailbox unavailable (S2017062302). [DB5EUR03FT038.eop-EUR03.prod.protection.outlook.com]

550 5.1.1 <megan\_considine@live.com>... User unknown <<< 503 5.5.2 Need rcpt command [DB5EUR03FT038.eop-EUR03.prod.protection.outlook.com]

From: Sent: To:	Darleen Johnson <murrabidgeemullangari@yahoo.com.au> Sunday, 8 August 2021 10:43 PM Taddeucci, Ryan</murrabidgeemullangari@yahoo.com.au>
Subject: Attachments:	[EXTERNAL] Re: Snowy Hydro 2.0 - Test excavation methodology IA199900 Archaeological Test Excavation Method Rev01 20210714.pdf
Hi Ryan I have read the project information the recommendations made. Kind regards Ryan Johnson 0475565517	n and archaeological test excavation methodology for the above project, I endorse
On Wednesday, 14 July 2021, 06	:04:25 pm AEST, Taddeucci, Ryan <ryan.taddeucci@jacobs.com> wrote:</ryan.taddeucci@jacobs.com>
Good evening,	
	re providing an archaeological test excavation methodology document to all NPs) and cultural knowledge holders for the Snowy 2.0 Transmission Line
excavations and the areas in which	e attached document, which sets out the proposed method for carrying out test ch these excavations are proposed to occur. If you would like to comment on the ovide your response by <b>12 August 2021</b> .
Please address your response to	me via return email.
Kind regards,	
Ryan	
	seum Studies, Grad Dip Maritime Archaeology, BA (Hons) Archaeology   Jacobs gy and Cultural Heritage (Asia Pacific), Environmental Solutions
M:+61.423.381.482   Ryan.Tadde 177 Pacific Highway   North Sydn	ucci@jacobs.com ey NSW 2060   Australia

From: Taddeucci, Ryan

Sent: Friday, 10 September 2021 4:44 PM

**To:** Taddeucci, Ryan

**Subject:** Snowy 2.0 - Transmission Connection

Attachments: IA199900-RPT-001\_Snowy Hydro\_AACHAR\_20210910.pdf

Good afternoon,

Please find attached a draft copy of the Addendum Aboriginal Cultural Heritage Assessment Report completed for the Snowy 2.0 - Transmission Connection project (State Significant Infrastructure no. 9717). Jacobs is seeking any additional information on the cultural significance of the revised sites and would appreciate any additional information that you can provide.

If you have any comments, can you please provide your response via email prior to Monday 11 October 2021.

Kind regards, Ryan

Ryan Taddeucci, Master of Museum Studies, Grad Dip Maritime Archaeology, BA (Hons)
Archaeology | Jacobs | Senior Archaeologist, Archaeology and Cultural Heritage (Asia Pacific),
Environmental Solutions
M:+61.423.381.482 | Ryan.Taddeucci@jacobs.com

177 Pacific Highway | North Sydney NSW 2060 | Australia

To: yurwang\_gundana@bigpond.com

Sent: Friday, 10 September 2021 4:48 PM

Subject: Undeliverable: Snowy 2.0 - Transmission Connection

The original message was received at Fri, 10 Sep 2021 06:45:06 GMT from m0144710.ppops.net [127.0.0.1]

----- The following addresses had permanent fatal errors ----- <yurwang\_gundana@bigpond.com> (reason: 550 5.1.1 <yurwang\_gundana@bigpond.com> recipient rejected. Recipient does not exist. IB603a)

----- Transcript of session follows ----- .... while talking to extmail.bigpond.com.:

>>> DATA

<<< 550 5.1.1 <yurwang\_gundana@bigpond.com> recipient rejected. Recipient does not exist. IB603a

550 5.1.1 <yurwang\_gundana@bigpond.com> recipient rejected. Recipient does not exist. IB603a

From: Mail Delivery Subsystem <MAILER-DAEMON@pps.reinject>

**To:** btlac@bigpond.net.au

Sent: Friday, 10 September 2021 4:46 PM

**Subject:** Undeliverable: Snowy 2.0 - Transmission Connection

The original message was received at Fri, 10 Sep 2021 06:45:06 GMT from m0144710.ppops.net [127.0.0.1]

----- Transcript of session follows ----- ... while talking to extmail.bpbb.bigpond.com.:

>>> DATA

<<< 550 5.1.1 <br/>btlac@bigpond.net.au> recipient rejected. Recipient does not exist. IB603a

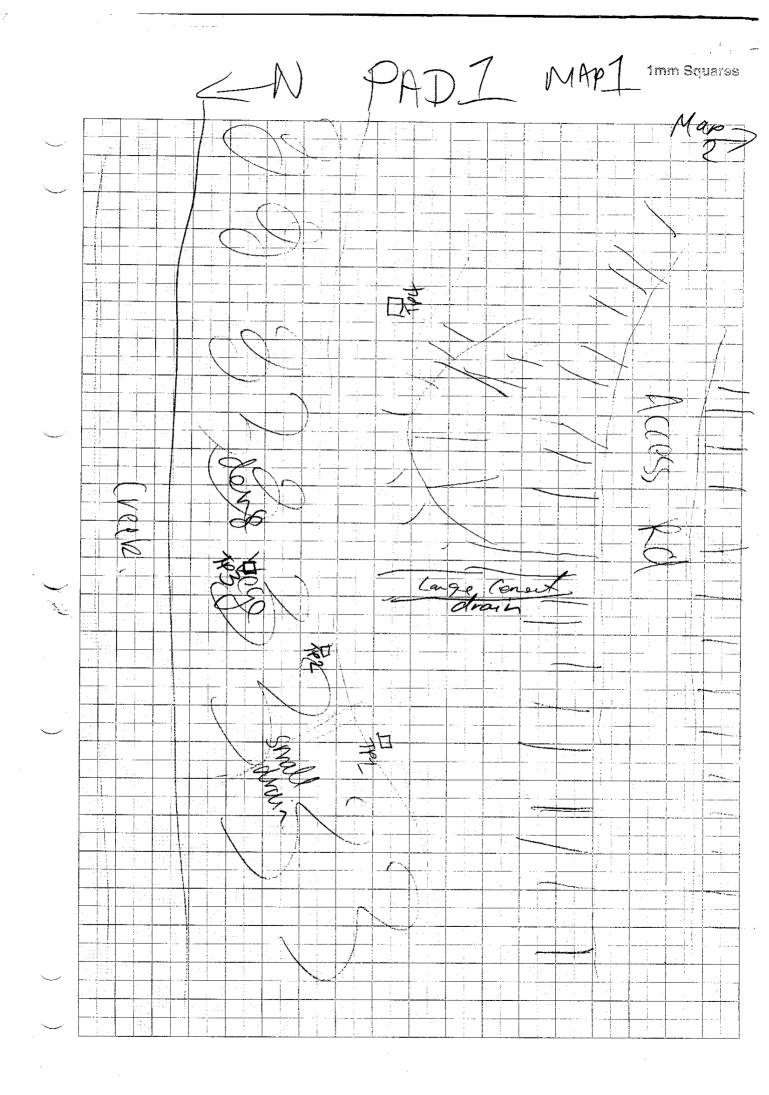
550 5.1.1 <a href="mailto:550">551.1</a> <a href="mailto:550">552 DATA Transaction failed, no recipients given

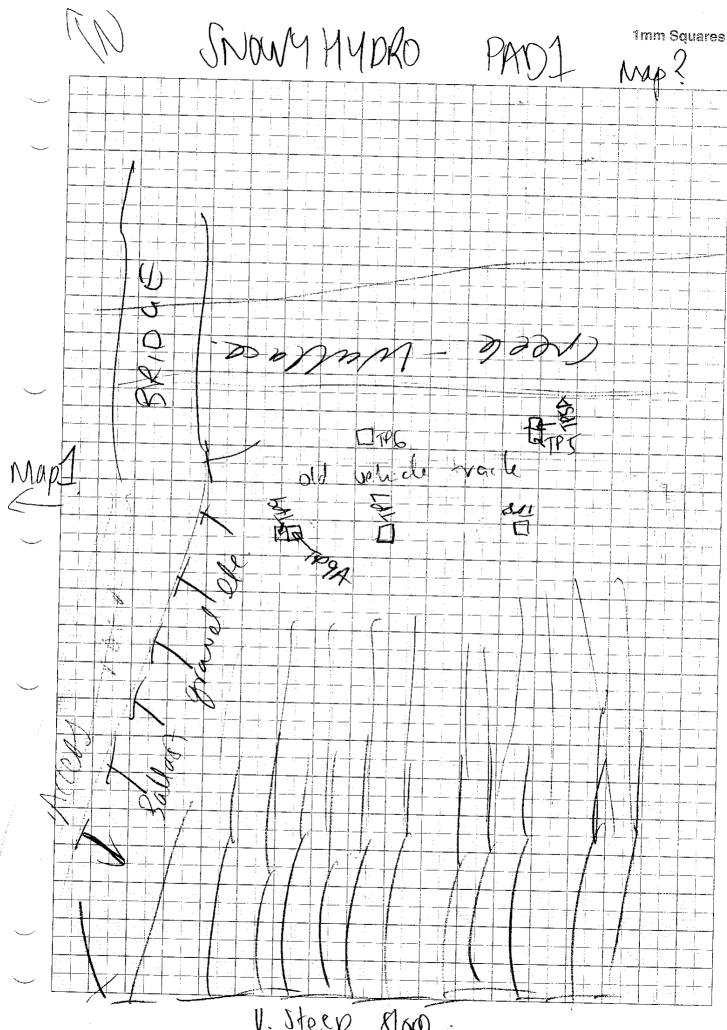
From: Gent: Fo: Subject:	lilly carroll <didgengunawalclan@yahoo.com.au> Friday, 10 September 2021 4:58 PM Taddeucci, Ryan [EXTERNAL] Re: Snowy 2.0 - Transmission Connection</didgengunawalclan@yahoo.com.au>
Hi Ryan	
Ne are always happy with ur met	:hodologies cheers Paul
Sent from Yahoo Mail for iPhone	
On Friday, September 10, 2021,	4:47 pm, Taddeucci, Ryan <ryan.taddeucci@jacobs.com> wrote:</ryan.taddeucci@jacobs.com>
Good afternoon,	
completed for the Snowy 9717). Jacobs is seeking a	aft copy of the Addendum Aboriginal Cultural Heritage Assessment Report 2.0 - Transmission Connection project (State Significant Infrastructure no any additional information on the cultural significance of the revised sites y additional information that you can provide.
If you have any comment October 2021.	es, can you please provide your response via email prior to <b>Monday 11</b>
Kind regards,	
Ryan	
(Hons) Archaeology   (Asia Pacific), Environn M:+61.423.381.482   R	ter of Museum Studies, Grad Dip Maritime Archaeology, BA Jacobs   Senior Archaeologist, Archaeology and Cultural Heritage nental Solutions  yan.Taddeucci@jacobs.com North Sydney NSW 2060   Australia

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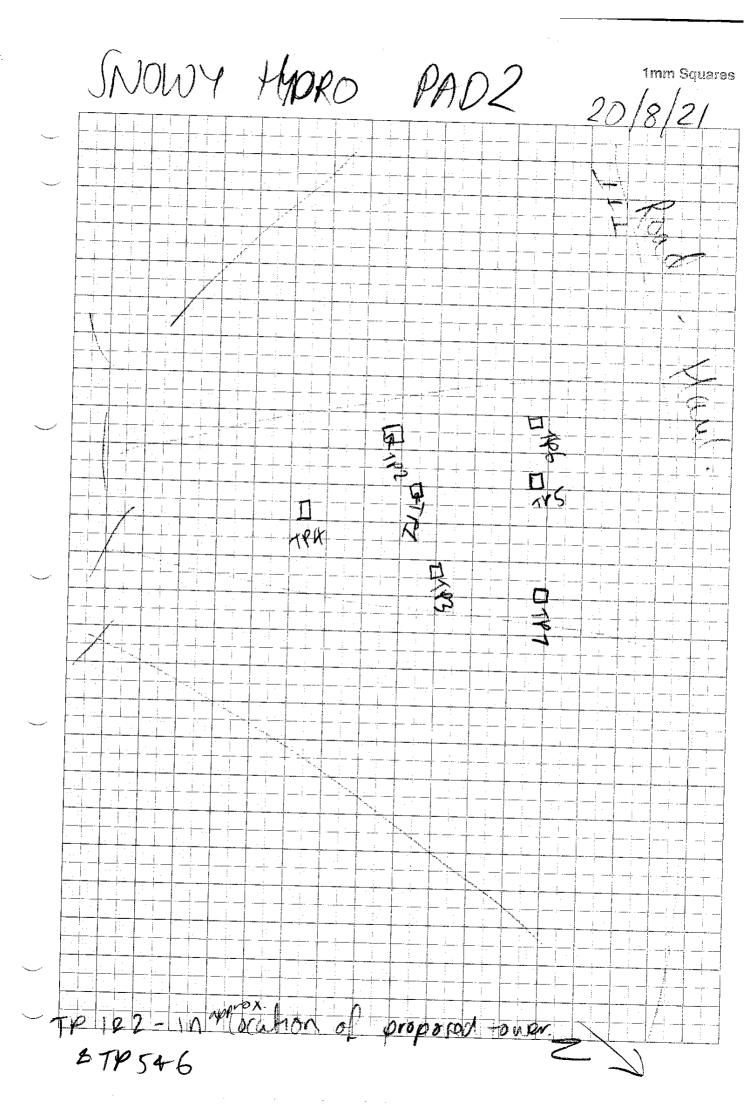


### Appendix D. Excavation records



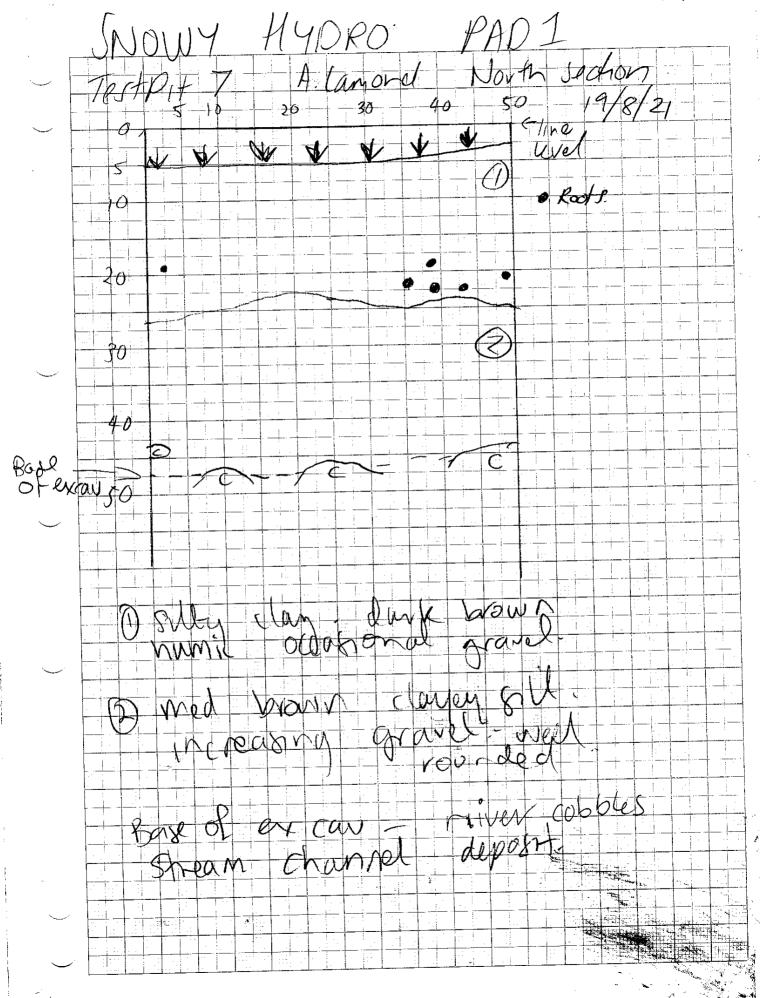


V. Steep Slope.



SNOWY	HYDRO	PADI	·	1mm Squares
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	<b>6 3</b>		30	
			10	
			70	
D claye	Polf fi	re voot	exaceto dark bro	m m
100 mod 16+5	brown hoe	s meg t	han () fine &	

1mm Squares SNOWY MYDRO Small root (1)3 accavation 0 dayey of Javies WI trans how Small & Fno Jeage d excav as same Arte all spts 18283 (VVV)



1mm Squares Socho incloud · Roof cobble from Channe 30 50 Base of exception brown Clayey prown gravel More ord du alty - Coppler from Stream channel

SNOWY HYDRO 1**m**m Squares West section cobbles from <del>)0</del> 50 60 Base of oxeau 70 Onte brank dance fire roots down to 12 m gradually ally chamgos buck Colobles from James stream than nex

					imm Squares
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	50	lase of extan.
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	Occapional Pue	soly loan.
	B) light brown	Sitty Class
	FOCKS - ange	alar.

	SNOWY	HYDRO	PAD 2	1mm Squares
	Test pit	3 Alamond	20/8/21	West Section
	D. 5 + 6	20 30	40 - 50	
	10			
			8	
$\smile$	(1) med red	ach brown		
	5/4/3757		Sety toain.	
<u> </u>	@ redush	day		
-				

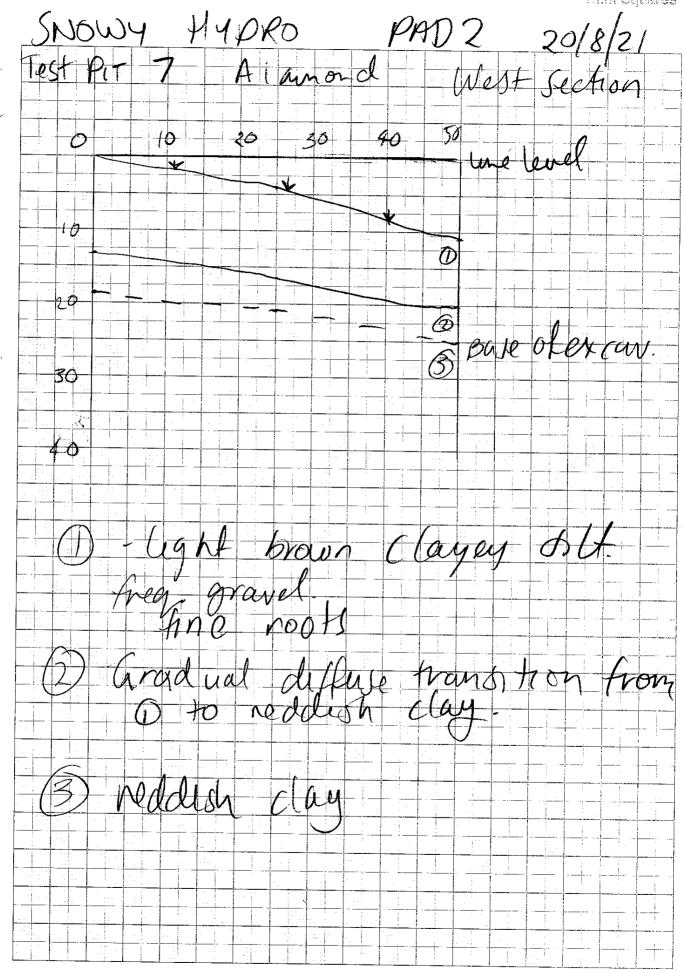
SNOWY MYDRO PADZ 20/8/2 1mm Squares 50 Line level. 30 40 -20 · small roo 20 3 Base of exca D Mell brown & thy loam.

augular gravel

large rocks vano. ocation reddish brown clay exaucton rease

1mm Squares SNOWY HYDRO 20/8/20 Alamond 20 30 50 line tovel. 10 E-Base of exacation 20 30 50 Med brown & ly loans fine rooks alesion al eased extavation reddish clay

	<u></u>					1mm Squar	98
	510	04	HUDE	20	PAL	)2	
	TOST Pa	+6	Alar	nond	20	18/21	
$\overline{}$	Norh	East Si	chan				_
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17/8/21 ch 16-emagency +3 Day I Snowy hydro. Auson Camond Aux Seifertova. Luho. Rennith Steve. Connolly 18/8/21 Same people 19/8/2/ Same people 20/8/21

en de en la companya de la companya

20/8/21 Same people

17/8/21 PAD 1 TP1. Way Pont 77 6287516 6038 101 light grass cover. SATZ down too Sch Schuley (oan reddish brown moist Frey gravel- both river pebble & and glue. - posible road Lose? 13ch raver Done 2- 119hl brown clayer selt ph 6 3-clay (very) I men light brown a formation of the Singles sill phos. 1/2

SNOWY HAPRO 17/8/21 9AD 1 If 2 way point 79
62\$ 7536 / 6038114

Dense Kach berieson surface.

Spit I - top- bands of block humic & Spirown Elugey oftsand. - variable former creek Chammel

er de la composition de la composition de la value de la composition de la composition de la composition de la La composition de la

Showy Hydro 17/8/21 PADI 1P3 Way Point 80 GETT 627563 Med brown sittly clay - light roofs with well roundered pebbles: polosmy Jorked grand. SPIT 2 - Same deposit stream channel

And the second s

SNOWY HUPRO Test Pit 4. Way Point 81 627615 6038089 lighty grassed at base of fill Mopo for Hauf Road. Spit I sommy day with V. freq gravel. Angular, sub angular, roorly sorted. Vompach.
construction. All from road Very Cost to former Fream Chariel

deposit. Very deep fill deposits-elevated approx 40 cm above usible Balder

56-6-0496 Both under where mine trail replaced with hautroad b. Vlarge amont of All coment bridge.

 $(x_1,x_2,\dots,x_{n-1},x_n) = (x_1,x_2,\dots,x_{n-1}$ 

<del>-</del> the second s

÷ •

Takan di Silangan dan Santan Kabupatèn Santan S

SNOWY HUMRO 18/8/21 PAD1 TEST AT 5 Way pont 8\$5 627 759 6838039 Clayer of the soles to dark hours some grand - occasional. SPIT 2 Tuff? Stake Spt 2 reddist brown calayer of the occasional well vounded well well well well well well well mostly plaker whisty Large tree roots-NESE Corner. Spit 3 - Same soil. test gravel-smaller presengence clay of well vounded well sorted.

Clay con tent in creating with jatt-Spot 5 Jane. Sput 6 peloble size in creating the clay con hert dicreasing stepping of ut to 100 cm x Joch to evalse going deeper

SNOWY HYPRO PADI
Test PIT 5A- Continue step out to allow PIT 5 to yo deeper.

Same soils at 5- Arke Facts in sats 1-223.

Ended 30 cm

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distribution of the second of

management of the contract of the management of the contract of the contract of the contract of the contract of

SNOWY MYDRO PAD I Test Pet 6. Way point 87 627745 /8/8/21 tong grass at surface spit (1) meddesh brown Ane rooks. liece of porcolar relatively modern + Piece of thin gass Same all way down ceased ex cave spit 5

the form to the second 

en de la composition La composition de la

NOWY HYDRO PADI 18/421 Test Pet 7 Way point 88 627734 6038048 heavily grassed at surface. pt 1 glass & comme most making rounded small dans brown silly clay. Spell. same less fine roots

Spell 3 same bravel 19/8/21

Spell 3 rone bravel usmall.

Chanle of old ceremic

Mick, gazed. Spit 4 - Preg, gravel. Sty of Clayey filt lag' mod brown miver cobbles at 45 cm Clase of row amon. - - - - - - - - - - - - - -

Para Caramana

SNOWY HYDRO PAI 19/8/21 TPB way point 89 62777 ( Spit 1 dank brown sully clay, lots fine roots , worms. at hard sper Occasional gravel Spy 2 Sune Petale freg goer up & dorselv with Lepth Sput 3 Spet 4 larger cobbles occasionally. ーさんりー of offream chansel colder - a Ceose excar. 

totale of the second of the second

SNOWY MY PAD 1 19/8/21 Test Pet 9 Waypord 90 627718 6038055 grass covered at vurface Spit I dark brown to they clay - Same - sut content in masing Sp. 3 Sput a. sume. Arrefacts. Sput 5 -Artefacks occasional symbol well sovied or well sovied well sovied on tend gravel Sput 6 -Stepped out 9A to East.

SNOWY HYDRO PADI 19/8/21 Test Pet 9A - Exchep out to allow excavation to depth

satz. V Mich clear glass.

JNOWY HYDRO PMO2 20/8/21 TP2 Way poral 92 totated on flatish bench in shoop stops Very Wille grass Brocks at slope- Angular sknoo type rocks. Spit I I silty loan aght brown. Sin freq - Angular rocks 510 cm. Skrie type- moving down Spet 2 lange vocks south corner. area within Very Steep scope the rooks.

Spt 6- clay content ingrassion are colorer-subjectay. Less smaller rock frags.

SNOWY MYDRO PAD 2 20/8/21 Test Pit 1 Waypoint 94. 627490/6037968
no vegetution cover on moderate 518pe
Within Very steep stope
Argular rocked on surface. Spit ! - light brown silty town clay.

(10 cm) large angular voils

angular gravel. poorly vorted. one Plake - FGS? Preddish sells day- clay Spot 2 (20 cm) Possably baked clay from Bush fine (was coase excav ut red clay.

en en lagrama de la composição de la compo La composição de la compo

amo de la composición de la composición

entropolis de la composition della composition d

SNOWY MYDRO PADZ Test Pit 3 20/8/21
Test Pit 3 20/8/21 Way point, 95 627499 /6037979
gentle) mod slope bench 2m pw/h, n in line of slope within a very steep slope.
Tp3
Nwend
Spit I - mell brow filly (ram at top  Gradheul transtron to reddesh some gree roofs rane gravel. rane (apoge angular rocks.
some pre roots rane gravel. rane large angular vocks.
base excav- redden clay ceased excavation

SNOW 7 MYDRO PAO 2 20/8/21 Test Pit 7 way point 101 627483/6038003 moderately sloping in rection of Very Steep Stope. large angular rocks. Spit I - I Artefact (10 cm) - Occa pronal angular gravel Clayey & 11+ light Brown, rane large angular rocks. Occasional roots Spot 2 freg angular gravel - increasing with depth to buse of spit. Spit 2 - trans eten, gradual defluse som soil above to roddish clay Clased examption at reddish clay

SNOWY HYDRO PADZ
Test Pit 4. Way point 97
627495
6037949
Turfule 8000 - no grass 1 fine damaged
Auke Spit I med brown tilty loan occasional gravel argular. Spit 2 - large rocks mod brown classen of the Clay content very large. Spirt 3 play content in wearing Clay at base- cease exaction

<del>andre de municipal de la composition de</del> La composition de la 

SNOWY MYDRO PAD2 20/8/21 Test Pet 5 Waypoint 99 627467 6038002 2 Surface Artefacts 100 grasses on surface Som large rocks. SPITI large angular rocks 5the loom med brown 2 Anteques. The great to the second of the second ipt2-same as above gradual franston to reddish clay Cease examation

managaran da santan da santan

<del>- -</del> 

SNOWY Kydro PAD2 20/8/21 Testput 6. Way point 100 627455 Angular rock on Surface Surface AAefacts. Spit I brown & dayey tilt. transtrons to reddish Clay diffuse gradual 2 Av Lefacts. Ceafe excau. 150 - 10 cm.

small bench in steep slope.

. . . -

PAD 2 Testing Rationale Incredibly sheep slope with vave above as oraf mod-7 gentle slope-only areas surface artefacts were identified. Put test pits into these lesser slope areas on grid hithtervals making sure we hit the 2 tower locations. other areas too steep-danegous & difficult to mamoure on able to set up sieve lange Angular fragments violble on all surfaces - skree fragments Unlikely any arhefacts are in their loviginal activity areas clear down slope movement of Stone 2 soil.



## Appendix E. Artefact catalogue

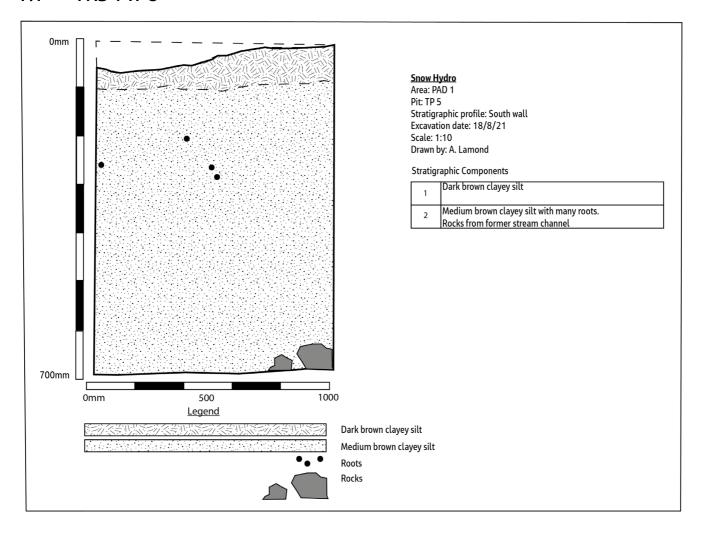
Spit	Depth	Material	Colour	Туре	Completeness	PlatformType	Termination	Cortex Weight	Length	Width	Thickness	RetouchType	CoreType	ScarLength	Signs of heating/ fire damage
	1 0-10cm	IMSTC	Light cream with small black speckles	Core	Complete			66.79g	47.49mm	49.67mm	23.30mm		Multidirectional	30.10mm	
	1 0-10cm	IMSTC	Light cream with small black speckles	Flake	Complete	Plain	Feathered	40% 0.94g	26.27mm	8.94mm	3.45mm				
	2 10-20cm	Silcrete	Purple brown with small quatz inclusions	Flake	Complete	Crushed	Feathered	0.26g	13.83mm	9.85mm	3.03mm				
	1 0-10cm	Silcrete	Purple brown with small quatz inclusions	Flake	Distal fragment	Crushed		0.18g	10.58mm	8.79mm	2.22mm				
	1 0-10cm	IMSTC	Light cream/ grey with small black speckles	Flake	Complete	Crushed	Step	10% 1.71g	15.29mm	22.83mm	7.26mm				
	1 0-10cm	IMSTC	Light cream/ grey with small black speckles		Complete	Crushed	Hinge	1.53g		21.53mm					
	1 0-10cm	IMSTC	Light cream/ grey with small black speckles		Complete	Plain	Feathered	0.43g		17.12mm					
	2 10-20cm	Silcrete	Purple brown with small quatz inclusions	Flake	Complete	Plain	Step	0.24g	9.93mm	9.40mm	2.13mm				
	2 10-20cm	IMSTC	Light cream with small black speckles	Flake	Complete	Plain	Hinge	2.86g		18.73mm					
	2 10-20cm	IMSTC	Light cream/ grey with small black speckles	Angular fragment				0.23g		8.16mm					
	3 20-30cm	Chert	Reddy brown	Flake	Complete	Plain	Feathered	0.07g		4.98mm					
	4 30-40cm	IMSTC	Dark silver/green grey	Flake	Left Longitudina	l Plain	Hinge	1.97g	25.72mm	15.18mm	4.58mm				
	5 40-50cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Step	16.19g	37.67mm	33.92mm	10.17mm				
	5 40-50cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Feathered	0.35g	10.18mm	17.70mm	2.33mm				
	5 40-50cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Feathered	0.32g		15.56mm					
	5 40-50cm 4 30-40cm 4 30-40cm 5 40-50cm	IMSTC IMSTC IMSTC	Dark silver/green grey Dark silver/green grey Dark silver/green grey Dark silver/green grey	Flake Flake Flake Flake	Complete Complete Complete Complete	Plain Plain Plain Crushed	Hinge Hinge Hinge Feathered	0.38g 15.04g 7.14g 50% 0.83g	51.06mm 21.16mm 17.57mm	14.88mm 36.64mm 37.29mm 14.02mm	9.32mm 9.06mm 4.24mm	minor retouch on bottom margin, unclear			
	5 40-50cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Hinge	50% 0.50g	11.05mm	18.19mm	2.80mm				Yes - red/purple colouring and some holes made on edge (like mini potlids the size of needle
	1 Surface	IMSTC	Light cream/ grey	Flake	Complete	Plain	Step	17.00g	40.51mm	29.63mm	16.43mm				holes
	1 0-10cm	IMSTC	Light cream	Flake	Complete	Plain	Step	6.65g	45.46mm	20.92mm	8.31mm				
	1 Surface	IMSTC	Light cream	Flake	Complete	Plain	Hinge	60% 2.63g	27.51mm	18.24mm	6.00mm				Yes- orange on edges
	1 Surface	IMSTC	Light cream	Flake	Complete	Plain	Feathered	5.26g	27.56mm	31.10mm	7.88mm				Yes- orange on edges
	1 0-10cm	IMSTC	Dark silver/green grey with small black spots	Flake	Complete	Plain	Feathered	3.97g	33.06mm	17.28mm	11.84mm	Yes - on both lateral margins, and on distal			
	1 0-10cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Feathered	6.61g	37.10mm	23.52mm	8.72mm	margin			Yes - some heat damage
	1 Surface	IMSTC	Dark silver grey	Flake	Distal fragment	Plain		6.00g	24.27mm	31.19mm	6.66mm				
	1 Surface 1 Surface	IMSTC IMSTC	Dark silver grey with white cortex Light cream/ grey	Angular fragment Angular fragment				70% 6.17g 10.77g		22.27mm 38.85mm		Yes - on both			
	1 0-10cm	IMSTC	Light cream/ grey	Tool - Burin	Complete	Plain	Feathered	5.68g	34.25mm	26.70mm	8.61mm	right lateral margin yes- on			
	1 0-10cm	IMSTC	Light cream/ grey	Tool- Scrapper	Proximal fragme	ent		2.37g	9.77mm	33.12mm	8.82mm	bottom edge			
	1 0-10cm	Chert	Dark grey	Flake	Proximal fragme	ent	Feathered	0.53g	13.32mm	9.18mm	4.44mm	_			
	1 0-10cm	Chert	Dark grey	Flake	Complete	Crushed	Step	1.56g		21.40mm					
	1 0-10cm	IMSTC	Dark silver/green grey	Flake	Complete	Plain	Step	3.88g		32.29mm					
					complete	riaiii	Step	-							
	1 0-10cm	IMSTC	Dark silver/green grey	Angular fragment				0.63g	12.92mm	7.62mm	5./9mm				
	1 0-10cm	Quartz	Milky white with red and purple veins	Angular fragment				0.26g	8.90mm	8.87mm	3.93mm				



# Appendix F. Section drawings

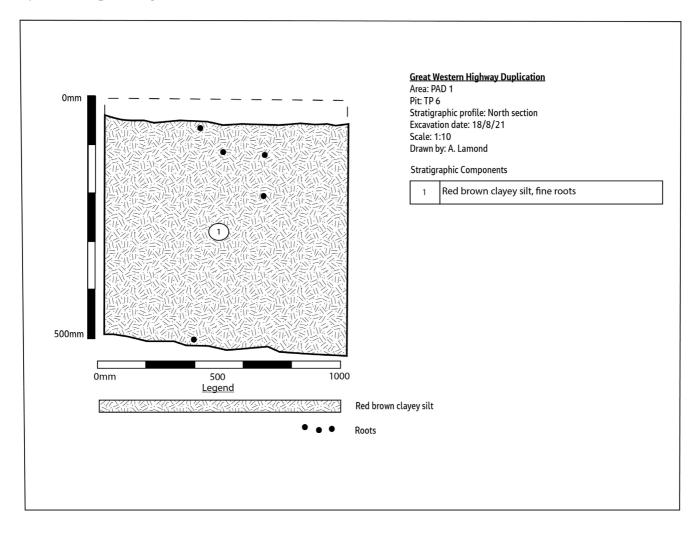


## F.1 PAD 1 TP 5



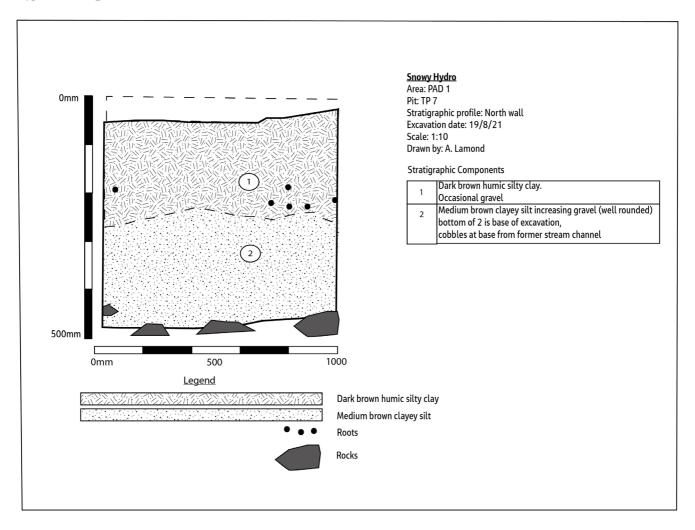


## F.2 PAD 1 TP 6



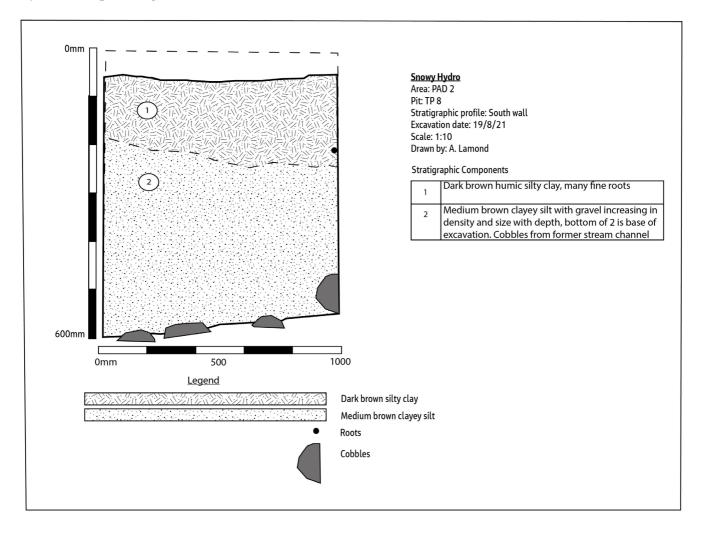


## F.3 PAD 1 TP 7



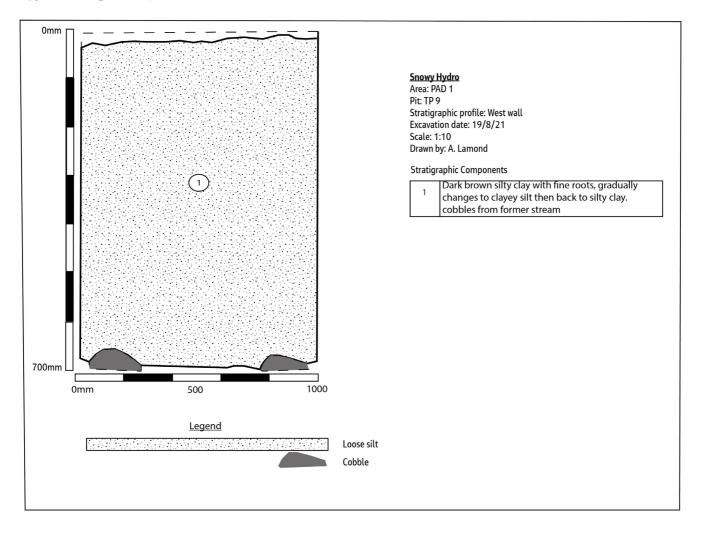


## F.4 PAD 1 TP 8



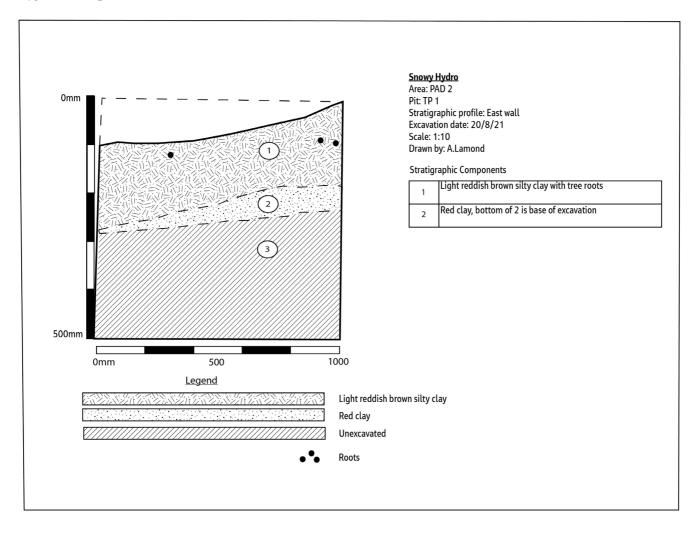


## F.5 PAD 1 TP 9



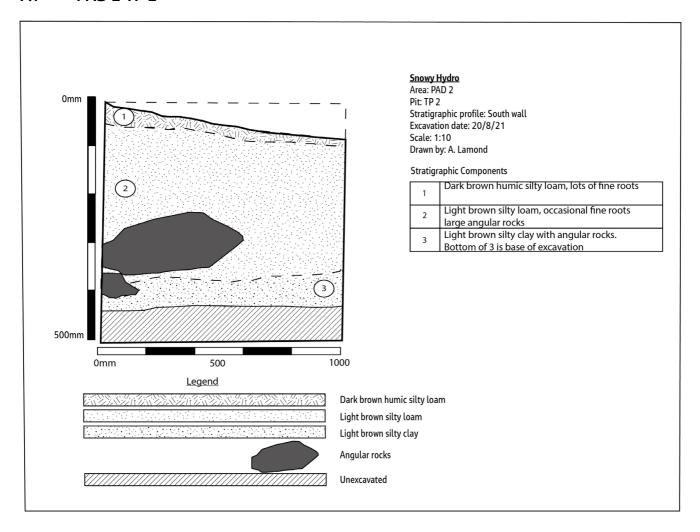


## F.6 PAD 2 TP 1



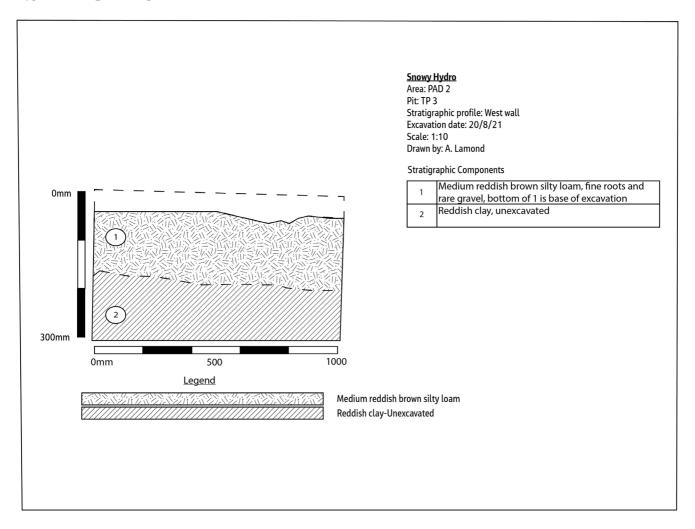


## F.7 PAD 2 TP 2



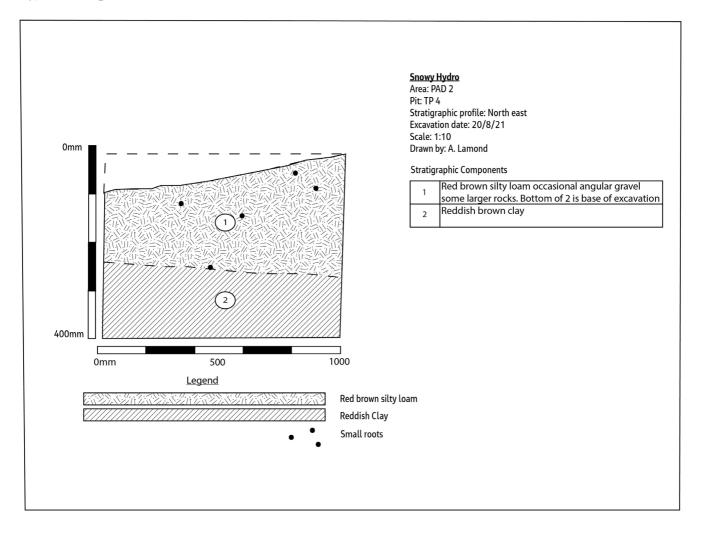


## F.8 PAD 2 TP 3



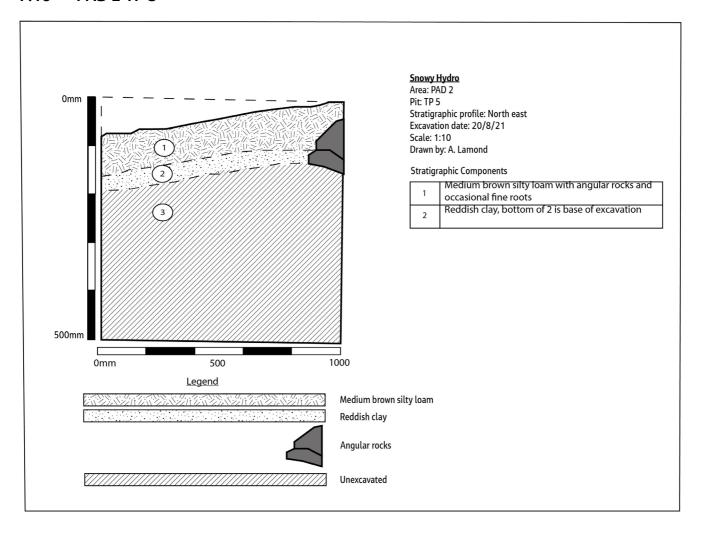


## F.9 PAD 2 TP 4



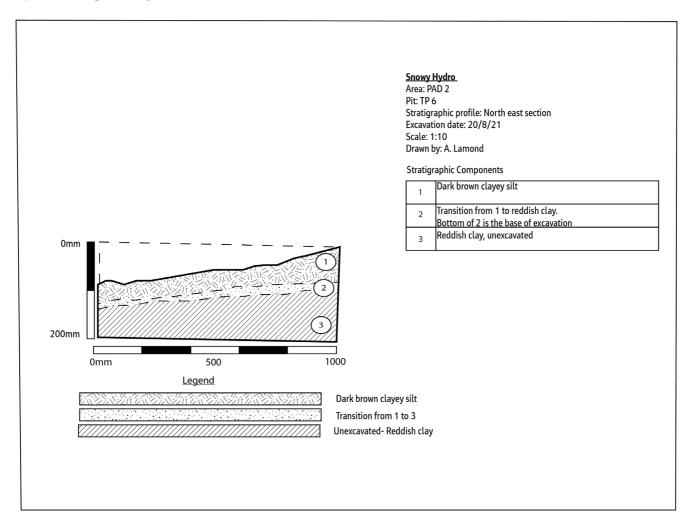


## F.10 PAD 2 TP 5





## F.11 PAD 2 TP 6





#### F.12 PAD 2 TP 7

