

BTW NOVA Solar Plant Project

Archaeological Management Plan (AMP)

Attachment A

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1 Introduction

This Archaeological Management Plan (AMP) outlines archaeological procedures to follow during the proposed NOVA Solar Plant Project at Twizel, Te Manuhuna/MacKenzie Basin in the event cultural or historic features or material becomes uncovered during the works. Proposed works are confined to the boundaries shown in Figure 1.

The archaeological assessment (Briden 2024) of potential effects from the proposed works found the project has the potential to impact sub-surface cultural or archaeological sites if present. Even though a Heritage NZ Pouhere Taonga Authority is not required due to a lack of evidence of archaeological features or sites within the project envelope, it is recommended that monitoring of earthworks by a cultural monitor or an archaeologist be undertaken within the red bounded areas provided on the map on the last page of this document (Figure 2).NOVA, Project Managers and Contractors are to receive a copy of this AMP. This document is to be available on site at all times.

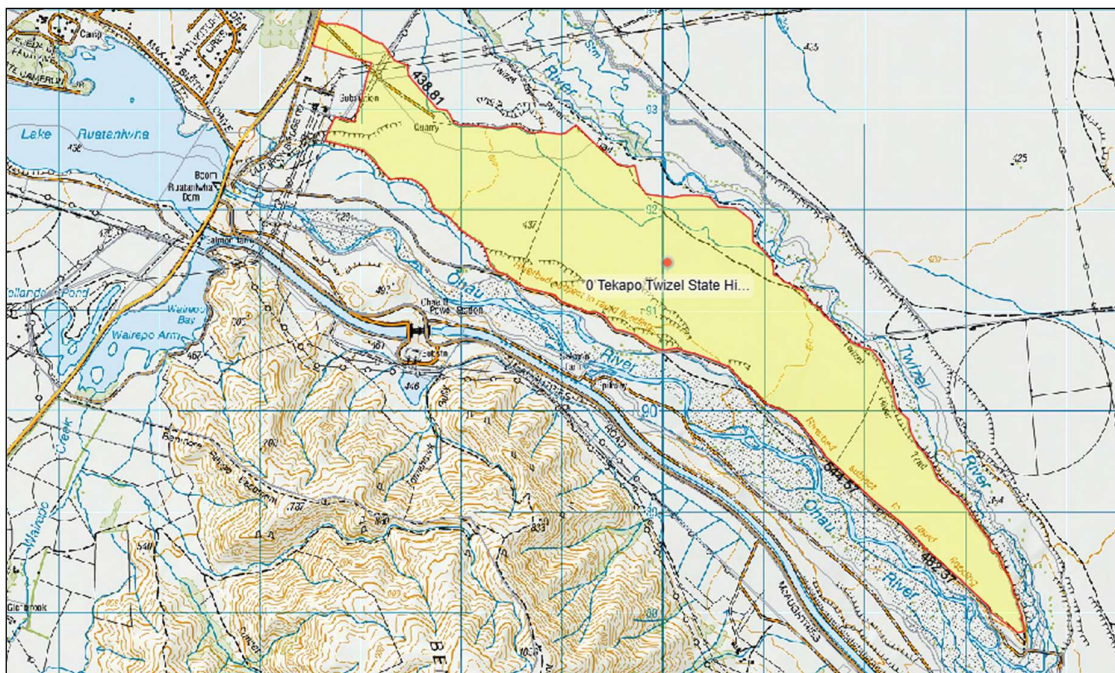


Figure 1. Land parcel proposed for the NOVA Solar Plant: Lot 3 Deposited Plan 422901 (Land Title Identifier 489342: Prover), Canterbury

2 Project

Earth moving required for the NOVA Solar Panel Project may impact pre-1900 archaeological features/sites if they are present within the project envelope. All pre-1900 archaeological sites are protected under the provisions of the *Heritage NZ Pouhere Taonga Act 2014*.

The proposed works lie within the rohe of three Papatipu Rūnanga: Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki. The timeframe for carrying out earthworks is dependent on weather and ground conditions. Work is expected to occur over a 3 month time period.

3 Archaeological risk and management

An archaeological assessment provided by Absolute Archaeology Ltd (Briden 2024) indicated there is potential for cultural or archaeological sites or features to be present within the proposed project area. The assessment recommended the works operate under this AMP (Archaeological Management Plan) outlining procedures/protocols to protect and manage archaeological and historic sites when undertaking earthworks. Sections below provide guidance to procedures under this AMP:

- methods to protect any archaeological sites or features
- procedures for any archaeological investigation or recording of archaeological information
- the role, responsibility and level of authority of the approved archaeologist
- timeframes for archaeological work
- on-site briefing by project archaeologist for contractors about the archaeological work required
- requirements for stand down periods to enable archaeological work
- mechanisms for dispute resolution
- emergency contact details for Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki, Project Archaeologist, Heritage New Zealand, and Bio-archaeologists is provided on page 9.

This document is to be kept on site during works and made available to all contractors and consultants working on the project. It provides a set of instructions to follow should archaeological material be found and also to let all parties know of the planned day-to-day activities that may affect archaeological sites.

The following guidelines from Heritage NZ Pouhere Taonga provide the basis of this AMP:

- Information Sheet: Managing Archaeological Material November 2014
<https://hnpzpt-rpod-assets.azureedge.net/u0yk3ydb/artefact-management-information-sheet-v5-final-2014-11-19-1.pdf>
- Archaeological Guidelines Series No. 7. Guidelines for the Finding of Artefacts
<https://hnpzpt-rpod-assets.azureedge.net/wgqor2jk/ags7-finding-of-artefacts-aug-2019-1.pdf>
- Archaeological Guidelines Series. Guidelines for Midden Sampling and Analysis
<https://hnpzpt-rpod-assets.azureedge.net/znbpw5uq/ags-9a-midden-jul-2014-1.pdf>
- Heritage New Zealand Pouhere Taonga Archaeological Guidelines Series. Koiwi Tangata Human Remains
<https://hnpzpt-rpod-assets.azureedge.net/ygoindqv/ags-8-koiwi-tangata-aug-2014.pdf>

4 Roles and Responsibilities

The following outlines the roles and responsibilities of the Project Archaeologist, Contractors and Subcontractors;

4.1 NOVA

NOVA or their nominated representative/s have the following responsibilities to ensure;

- Keep Project Archaeologist and rūnanga up to date on expected time earthworks are to start and completed;
- Ensure earthworks in areas highlighted in Figure 2 as requiring archaeological monitoring have an archaeologist or cultural monitor on site to monitor the works;
- Ensure allowance is made in the work schedule for archaeological work to be carried out;
- Conditions and stand down periods detailed in this AMP are observed by all parties;
- Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki and Heritage NZ are notified immediately archaeology material of iwi interest becomes evident;
- Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki and Heritage NZ are notified immediately Kōiwi tangata (human remains) becomes evident;
- An application for a Heritage NZ Pouhere Taonga Authority will be required by the applicant if any archaeological/cultural features or sites are uncovered during the project works;
- Heritage NZ are a party in discussions on protecting historical archaeological remains;
- Within 12 months of completion of project earth works (where cultural or historic material or features are uncovered during earthworks) the Authority Holder shall ensure the Project Archaeologist submits a Final Archaeological report on the analysis results to Heritage NZ, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki;
- If no cultural or historic material or features are uncovered during the earthworks the report will comprise an email outlining the work undertaken.

4.2 Project Archaeologist

- Manage archaeological works on site throughout the project;
- On-site briefing for contractors at the start/commencement of earthworks;
- Ensure conditions of this AMP are complied with including reporting requirements;
- Investigate in-situ archaeological material in a professional manner and with as little delay as possible;
- Comply with Health & Safety as directed by site contractors;
- Provide a Final Report on archaeological work undertaken as part of this project as required under the *Heritage NZ Pouhere Taonga Act 2014*;
- Ensure NZAA site record/s are lodged with ArchSite if required;
- Ensure MCH (Ministry for Culture and Heritage) registration is undertaken for Taonga tuturu uncovered during the works within 28 days of completion of archaeological work on site (as per the *Protected Objects Act 1975*).

4.3 Contractors and sub-contractors

Contractors are responsible for the following;

- To provide a safe working environment for the Project Archaeologist;
- Project Archaeologist has the ability to direct Contractor/s in machine excavation around archaeological or historic sites.

5 Contractor Briefing

Project Archaeologist will undertake an on-site briefing to contractors prior to earthworks starting outlining the following;

- Role of Heritage NZ;
- Legislative requirements of the *Heritage NZ Pouhere Taonga Act 2014*;
- Archaeological or historic material/features/sites that could be present in the work envelope;
- Areas of earthworks requiring monitoring by the Cultural monitors;
- Responsibilities of the Project Archaeologist;
- Stand down periods for archaeological investigation and recording if required.

6 Stand down periods

Time is to be allowed in the work schedule for archaeological investigation should material/features or sites become uncovered during works. A stand down period will be called for by the Project Archaeologist if the find is considered significant. The following apply;

- Physical works are to cease within 20m of any uncovered archaeological find/site and the Project Archaeologist be informed who will investigate the site;
- Works may continue outside the 20m buffer unless subsequent archaeological material/feature/site becomes evident;
- Stand down period will be determined in consultation with Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki, Heritage NZ and the Project Archaeologist in the event Taonga tuturu, archaeological or historic artefacts, features or sites become evident;
- Project Archaeologist will advise the Site Supervisor of expected stand down period.

7 Archaeological investigation and recording

7.1 Archaeology (Project archaeologist)

The following apply when archaeological or historic material/features or sites become exposed during earthworks;

- Archaeological or historic material/features/sites/Taonga tuturu are to be recorded in-situ by the Project Archaeologist;
- NOVA, Contractors and Heritage NZ will be informed of the archaeological site by the Project Archaeologist who will proceed with discussions with appropriate parties (Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki) regarding options to preserve or protect in situ material if possible. No further work is to occur in the area until decisions are made regarding preservation options;
- Archaeological or historic features/material will be cleaned back by hand to enable recording and photographing;
- Hand held GPS unit will record location of archaeological or historic material/Taonga tuturu/features or sites;
- Extent and depth of Taonga tuturu/archaeological or historic features/sites will be recorded;
- Wood/timber items are to be checked by the Project Archaeologist for evidence of modification (hand working/adzing);
- The Project Archaeologist will advise when works can continue on site.

7.2 Taonga tuturu/artefact recovery

The Project Archaeologist will be responsible for holding Taonga tuturu/artefacts and cultural material until decisions are made by Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki and Heritage NZ on where to house Taonga tuturu for long-term storage and/or conservation. Ownership lies with the Crown until decided by the Māori Land court as per the *Protected Objects Act 1975* (Sections 11-12).

Items or material not meeting the definition of Taonga tuturu are legally owned by the land owner. Transfer of ownership requires agreement and documentation.

7.3 Labelling in the field

- Taonga tuturu/archaeological artefacts or historic artefacts will be recorded then bagged and labelled with context details;
- Each archaeological artefact/Taonga tuturu or historic artefact will be logged with a unique catalogue number following consequential time of recovery;
- Wood items and organic materials considered significant will be placed in plastic bags with a little water then placed into a fish bin also containing water. A water proof label with context details and location is to be placed with each item in their separate plastic bags. If

the items are too large to be contained in plastic then a waterproof label will be tied to the item using thin cotton strips (material that do not cut into the item).

7.4 Analysis of archaeological or historic material

Archaeological artefacts/Taonga tuturu or historic items retrieved by the Project Archaeologist will be taken to the University of Otago Anthropology Laboratory for washing and analysis unless directed otherwise by Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki or HNZPT (Heritage NZ).

Archaeology students may be sub-contracted to undertake this task along with re-bagging, sorting to class of artefact, comparative identification and a full inventory of recovered items entered into a database held by the Project Archaeologist. Assemblages will be quantified and assessed to inform recommendations where the assemblage could be housed.

7.5 Discovery of human remains (Kōiwi tangata)

Bone material that becomes exposed during the works is to be investigated by the Project Archaeologist and the following will occur;

- If the Project Archaeologist identifies the bone as human (Kōiwi tangata) earthworks will stop within 20m of the site;
- If it is not clear if the bone is human works are to stop within 20m of the site until an identification can be made;
- Project Archaeologist to send a Bio-Anthropologist photos of the bone material for identification;
- If the bone is confirmed as being human appropriate parties are to be advised by the project archaeologist: Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki and Heritage NZ;
- The Kōiwi tangata site is to be secured as much as possible and Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, and Te Rūnanga o Moeraki representatives been given the opportunity to undertake appropriate tikanga (protocols);
- Kōiwi tangata will be deposited in the Kōiwi facility at the School of Biomedical Sciences, University of Otago, Dunedin, by iwi representatives or the Project Archaeologist until decisions are made regarding future research followed by transfer to South Canterbury Museum, Timaru, by iwi representatives prior to reburial;
- Care and management on the recovery of Kōiwi tangata is to follow the Te Rūnanga o Ngāi Tahu Kōiwi tangata Policy (2019);
- Works can continue on site once the all clear is given by Heritage NZ and Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki.

8 Dispute Resolution

In the event of a dispute;

- Meeting of NOVA, Project Archaeologist, Contractors and Heritage NZ to attempt to resolve the dispute;
- If the dispute is related to cultural matters Te Rūnanga o Arowhenua, Te Rūnanga o Waihao and Te Rūnanga o Moeraki representatives are included in the meeting with NOVA Energy Limited, Project Archaeologist, Contractors and Heritage NZ;
- If no resolution is achieved by the parties an independent mediator will be called in. All parties are to agree on the independent mediator appointed.

9 Contact details

Organisation	Position	Contact	Phone number
NOVA	Generation Development Lead	[REDACTED]	[REDACTED]
BTW Company	Pou Taiao/Director, Planning and Environment	[REDACTED]	[REDACTED]
Te Rūnanga o Arowhenua	Ūpoko	[REDACTED]	[REDACTED]
Te Rūnanga o Waihao	Kaihautū	[REDACTED]	[REDACTED]
Te Rūnanga o Moeraki/Otago Museum	Curator Māori & Pouhere Kaupapa Māori	[REDACTED]	[REDACTED]
Absolute Archaeology Ltd, Dunedin	Project Archaeologist	[REDACTED]	[REDACTED]
Heritage NZ, Canterbury Office	Regional Archaeologist	[REDACTED]	[REDACTED]
BioArch South Waitati Contractors Limited	Bio-archaeologist	[REDACTED]	[REDACTED]
School of Biomedical Sciences, University of Otago	Bio-archaeologist	[REDACTED]	[REDACTED]

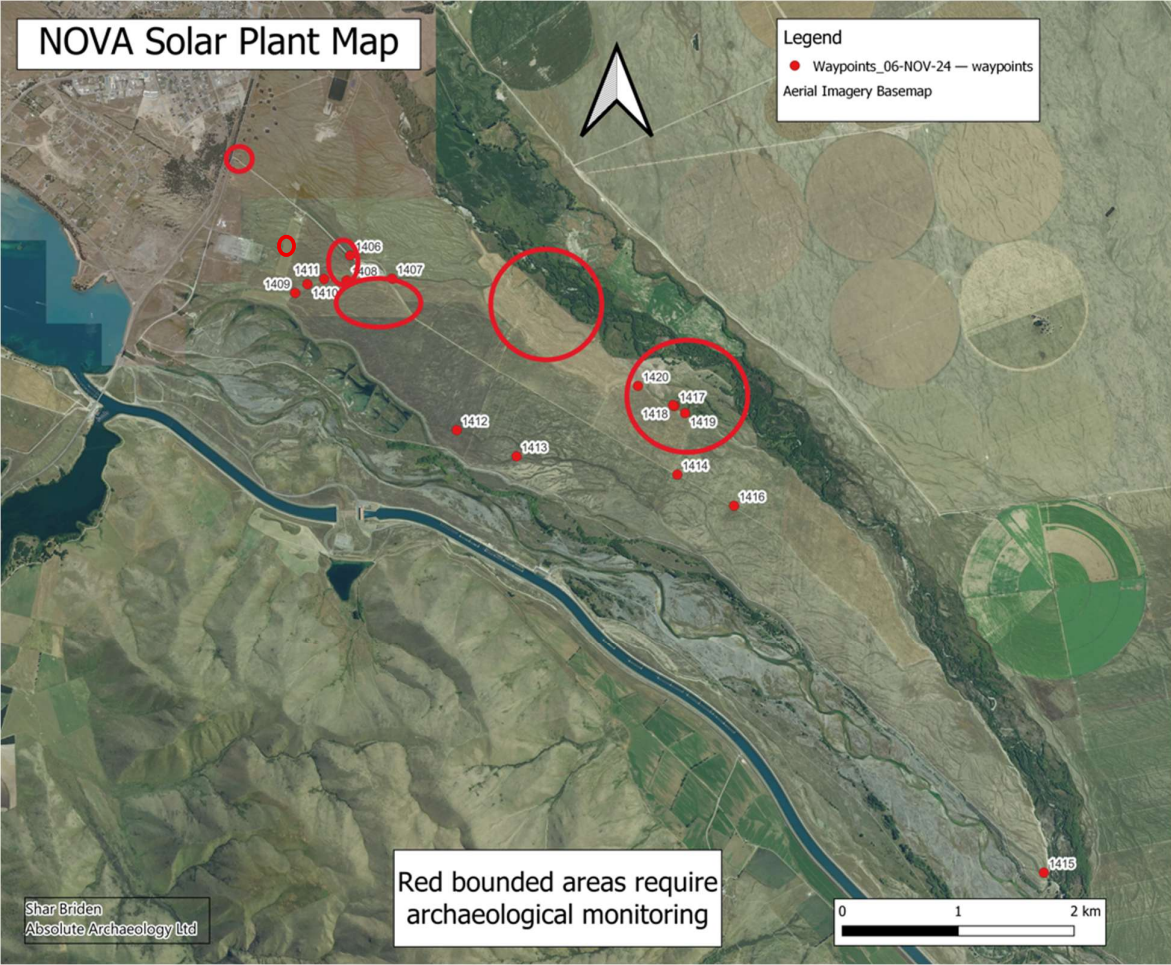


Figure 2. Earthworks within red bounded areas to be monitored by an archaeologist or cultural monitor.