Suite 2.06, Level 2 29-31 Solent Circuit Norwest NSW 2153 Tel: 61 (02) 9659 5433

e-mail: <u>hbi@hbi.com.au</u> Web: www.hbi.com.au

Deanne Forrest 18 November 2021 A/ Project Director M12

Sydney Infrastructure Development Infrastructure and Place Transport for NSW Level 7 27-31 Argyle Street

Parramatta NSW 2150 Ref: CCHMP Rev G.02

Dear Deanne,

RE: Endorsement of M12 Motorway – Construction Cultural Heritage Management Sub-plan Revision G.02

Thank you for providing the following document for Environmental Representative (ER) review and endorsement as required by the Condition of Approval A34(d)(i) of the M12 Motorway approval (SSI 9364):

 M12 Motorway – Construction Cultural Heritage Management Sub-plan Revision G.02 November 2021

I have reviewed the Overarching Construction Environmental Management Plan (OCEMP) and associated Sub-plans, which have been prepared by Transport for NSW. Previous versions of the subject document have been reviewed and updated following comments from the ER.

As an approved ER for the M12 Motorway project, I consider this OCEMP Sub-plan is consistent with the requirements under the project approval and may be submitted to the Planning Secretary for approval.

This endorsement is limited to the requirements of the Condition of Approval C4 and C5 relating to this plan. The OCEMP and associated Sub-plans are not part of this endorsement, as these endorsements will be provided separately.

Yours sincerely

George Kollias

Environmental Representative - M12 Motorway





Appendix B6

Construction Cultural Heritage Management Sub-plan

M12 Motorway

November 2021



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Document control

File Name	M12PPW-ADAP-ALL-EN-PLN-000017_F_S3_TFNSW_CCHMP
Title	M12 Motorway OCEMP
	Appendix B6 – Construction Cultural Heritage Management Sub-plan
Document Number	M12PPW-ADAP-ALL-EN-PLN-000007
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Approval and authorisation

Plan reviewed by:
Deanne Forrest
TfNSW Project Director, M12
18/11/2021
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Revision history

Revision	Date	Description		
Α	25/09/2020	First draft for TfNSW review		
В	23/10/2020	Response to TfNSW comments		
С	10/11/2020	Response to TfNSW comments		
D	19/07/2021	Updated with Final State and Commonwealth CoAs		
E 10/08/2021		Response to TfNSW and ER comments		
F	02/09/2021	Response to TfNSW and ER comments		
G	22/10/2021	Response to comments received during consultation		
G.02	15/11/2021	Updated to address TfNSW comments		



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Glossary/ Abbreviations

Abbreviations	Expanded text	
ACHAR	Aboriginal Cultural Heritage Assessment Report	
Aboriginal place	An Aboriginal Place is an area declared by the Minister administering the Act to be of special significance with respect to Aboriginal culture	
Aboriginal objects	Aboriginal objects include any deposit, object or material evidence (not being a handicraft made for sale), including Aboriginal remains, relating to the Aboriginal habitation of NSW, before or concurrent with occupation by Non-Aboriginal people, as defined in Section 5 of the NPW Act	
AHIMS	Aboriginal Heritage Information Management System	
AR	Amendment Report	
ARSR	Amendment Report to the Submissions Report	
ASO	Aboriginal Site Officers	
ССНМР	Construction Cultural Heritage Management Sub-plan	
CEMP	Construction Environmental Management Plan	
CFFMP	Construction Flora and Fauna Management Sub-plan	
CNVMP	Construction Noise and Vibration Management Sub-plan	
Commonwealth CoA	Federal Conditions of Approval under the EPBC Act	
Construction	Includes all activities required to construct the CSSI as described in the documents listed in Condition A1, including commissioning trials of equipment and temporary use of any part of the CSSI, but excluding Low Impact Work which is carried out to complete prior to the approval of the CEMP, works approved under a Site Establishment Management Plan, demolition of acquired residential houses, structures and sheds, and works specified in Appendix B and approved under an environmental management plan(s) in accordance with Condition A24.	
CSSI	Critical State Significant Infrastructure	
DAWE	Commonwealth Department of Agriculture, Water and the Environment	
DEC	Former NSW Department of Environment and Conservation, now NSW Environment, Energy and Science	
DECCW	Former NSW Department of Environment, Climate Change and Water, now NSW Environment, Energy and Science	
DITRDC	Commonwealth Department of Infrastructure, Transport, Regional Development and Communications	



Abbreviations	Expanded text		
DPC Heritage	Former NSW Heritage Department of Premier and Cabinet (Heritage), now Heritage NSW		
DPI	Department of Primary Industries		
DPIE	Department of Planning, Industry and Environment		
DUAP	Former Department of Urban Affairs and Planning, now DPIE		
EESG	Environmental, Energy and Science Group (a part of DPIE)		
EIS	Environmental Impact Statement		
Environmental Assessment Documentation	Collective reference to the M12 EIS (Oct 2019), Submissions Report (Oct 2020), and Amendment Report (Oct 2020), Amendment Report-Submissions Report (Dec 2020) and supplementary reports as detailed in NSW CoA A1.		
Environmental Representative	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of construction. A key I point of contact for the Planning Secretary in relation to environmental performance of the CSSI.		
EP&A Act	NSW Environmental Planning and Assessment Act 1979		
EPA	NSW Environment Protection Authority		
EPBC Act	Commonwealth Environmental Protection and Biodiversity Conservation Act 1999		
ER	Environmental Representative		
EWMS	Environmental Work Method Statement		
ESM	Environment and Sustainability Manager		
Federal Approval	Approval (EPBC 2018/8286) for carrying out the M12 Project under Part 8 of the <i>Environmental Protection and Biodiversity Conservation Act 1999</i> subject to specific CoA as detailed in Annexure A of the approval.		
FST	Fleurs Synthesis Telescope		
Heritage Act	NSW Heritage Act 1997		
Heritage item	A place, building, work, relic, archaeological site, tree, movable object or precinct of heritage significance, that is listed or may be eligible to be listed under one or more of the following registers: the State Heritage Register under the Heritage Act 1977 (NSW), a state agency heritage and conservation register under Section 170 of the Heritage Act 1977 (NSW), a Local Environmental Plan under the EP&A Act, the World, National or Commonwealth Heritage lists under the Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth), and/ or an Aboriginal object or Aboriginal place as defined in section 5 of the National Parks and Wildlife Act 1974 (NSW)		



Abbreviations	Expanded text
Heritage Council of Australia	Commonwealth Heritage Council
HIP	Heritage Interpretation Plan
Hold Point	A point beyond which a work process must not proceed without express written authorisation from Roads and Maritime
Infrastructure Approval	Approval (SSI 9364) for carrying out of the M12 Project under Section 5.19 of the Environmental Planning and Assessment Act 1979 subject to specific CoA as detailed in Schedule 2 of the approval.
JAJV	Jacobs Arcadis Joint Venture
ICOMOS	International Council on Monuments and Sites
KCE	Kemps Creek East
LALC	Local Aboriginal Land Council
LLEP	Liverpool Local Environmental Plan
LIWMS	Low Impact Work Method Statement
MGA	Map Grid of Australia – MGA is a metric rectangular grid system (i.e. east and north)
NASF	National Airports Safeguarding Framework
Non-Aboriginal Work	A Non-Aboriginal building or standing structure. This may include tram tracks, kerbing, historic road pavement, fences, sheds or building foundations
NPW Act	National Parks and Wildlife Act 1974
NSW CoA	NSW Conditions of Approval
ocs	Overarching Communication Strategy
OCEMP	Overarching Construction Environmental Management Plan
OEH	NSW Office of Environment and Heritage, now Heritage NSW
PACHCI	Procedure for Aboriginal Cultural Heritage Consultation and Investigation (Roads and Maritime, 2011)
PAD	Potential Archaeological Deposit
PDLP	Place, Design and Landscape Plan
Planning Secretary	Secretary of the NSW Department of Infrastructure, Planning and Environment, or delegate



Abbreviations	Expanded text	
PLEP	Penrith Local Environmental Plan	
POEO Act	NSW Protection of the Environment Operations Act 1997	
Primary CoA/REMMs	CoA/REMMs that are specific to the development of this Plan	
QA	Quality Assurance	
RAP	Registered Aboriginal Parties	
REMM	Revised Environmental Management Measures	
Relic	Evidence of past human activity which has local or state heritage significance. It may include items such as bottles, utensils, remnants of clothing, crockery, personal effects, tools, machinery and domestic or industrial refuse	
RIAR Group	Regions, Industry, Agriculture and Resources Group (a part of DPIE)	
Roads and Maritime	Former NSW Roads and Maritime Services, Now Transport for NSW	
RTA	Roads and Traffic Authority. Former NSW Roads and Maritime Services. Now Transport for NSW	
SEARs	Secretary Environmental Assessment Requirements	
Secondary CoA/REMMs	CoA/REMMs that are related to, but not specific to, the development of this Plan	
SS	Sustainability Strategy	
TfNSW	Transport for New South Wales	
Unexpected heritage find	A potential heritage item or place discovered but not identified in the documents listed in the Environmental Assessment Documentation, where assessment is required to determine if the item has heritage significance, or is an Aboriginal object or human remains. Unexpected heritage finds does not include confirmed human remains	
Work	Any physical work to build or facilitate the building of the CSSI, including low impact work, environmental management measures and utility works. However, it does not include activities that inform or enable detailed design of the CSSI and generate noise that is no more than 5 dB(A) above the rating background level at any sensitive receiver.	
WSIA	Western Sydney International Airport	
WSP	Western Sydney Parklands	

1 Introduction

1.1 Context

This Construction Cultural Heritage Management Sub-plan (CCHMP or Plan) forms part of the Overarching Construction Environmental Management Plan (OCEMP) for the M12 Motorway (the Project).

This CCHMP has been prepared to address the requirements of the Minister's Conditions of Approval (CoA), and the environmental management measures listed in the Project Environmental Assessment Documentation, all applicable legislation and Transport for New South Wales (TfNSW) Quality Assurance (QA) specifications.

1.2 Background

TfNSW is planning to construct and operate the M12 Motorway (the Project) to provide direct access between the Western Sydney International Airport (WSIA) at Badgerys Creek and Sydney's motorway network. The M12 Motorway will run between the M7 Motorway at Cecil Hills and The Northern Road at Luddenham for about 16 kilometres and is expected to be opened to traffic prior to opening of the WSIA.

The Project will be constructed in three separate stages under four separate construction contracts:

- M12 West (construct only contract) between The Northern Road, Luddenham and about 250 metres east of Badgerys Creek
- M12 Central (construct only contract) between about 500 metres west of South Creek and the Western Sydney Parklands at Duff Road, Cecil Park
- M12 East (construct only contract) Elizabeth Drive connections, south of Cecil Park
- M12 East (design and construct contract) the M7/M12 interchange.

The Project is subject to an approval under Division 5.2 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) as Critical State Significant Infrastructure (CSSI). The Project is also a controlled action under Section 75 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), requiring a separate approval from the Australian Minister for the Environment.

An EIS was prepared to describe and assess the Project and recommend management measures to address impacts. The EIS was exhibited by the NSW Department of Planning, Industry and Environment (DPIE) for 34 days from 16 October 2019 to18 November 2019 to give the community and stakeholders the opportunity to provide comment.

In accordance with Section 5.17 of the EP&A Act, the Planning Secretary requested TfNSW to provide a response to submissions. These were addressed within the Submissions Report. Due to design developments since the exhibition of the EIS, an Amendment Report has been developed to assess the impacts of these amendments. The Amendment Report was exhibited by DPIE for 14 days from 21 October 2020 to 4 November 2020. Following exhibition of the Amendment Report, an Amendment Report to the Submissions Report (ARSR) was developed in December 2020 to address the identified issues followed the ARSR in March 2021. Collectively the EIS,

Submission Report, Amendment Report, ARSR and ARSR amendment which addressed biodiversity matters only are herein referred to as Environmental Assessment Documentation.

The Project must be carried out generally in accordance with the EIS, Submissions Report, Amendment Report, Amendment Report-Submissions Report and the Amendment Report – Submissions Report (amendment) in accordance with NSW CoA A1. These documents are collectively referred to as the Environmental Assessment Documentation. The CSSI must also be carried out in accordance with all procedures, commitments, preventative actions, performance outcomes and mitigation measures set out in the Environmental Assessment Documentation as required by NSW CoA A2. Approval for the Project under the EP&A Act was granted by the Minister for Planning on 23 April 2021 (SSI 9364). Approval for the Project under the EPBC Act was granted by the Federal Minister for the Environment on 3 June 2021 (EPBC 2018/8286). The Project must be carried out in accordance with the terms of the NSW and Federal Approvals.

As part of EIS development, detailed Aboriginal and Non-Aboriginal heritage cultural heritage assessments were prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued by DPIE. The Aboriginal cultural heritage assessment was included in the EIS as Appendix I. The Non-Aboriginal heritage assessment was included in the EIS as Appendix J.

Further heritage assessment was undertaken subsequent to exhibition of the EIS as a part of the Amendment Report. Appendix E and Appendix F of the Amendment Report addressed Aboriginal heritage and Non-Aboriginal heritage respectively. Revised Environmental Management Measures (REMMs) and research and excavation methodologies were provided within the Amendment Report and ARSR. Where applicable, the REMMs from the Amendment Report and ARSR have been included in this CCHMP.

Section 2 of the Overarching Construction Environmental Management Plan (OCEMP) provides a detailed Project description.

1.3 Scope of the Plan

The OCEMP and Sub-plans are related to the construction phase only. Archaeological and cultural salvage and/or testing will be undertaken in areas identified of heritage value prior to impact of those heritage values. These will be undertaken as low impact work as identified in Section 2.4 of the OCEMP in accordance with the Archaeological Salvage Strategy or Low Impact Work Method Statement (LIWMS). Notwithstanding, where low impact works are undertaken prior to the Construction Contractors CEMP approval they will be governed by the LIWMS outlined in Section 2.4 of the OCEMP. Where low impact work is undertaken during the construction phase following approval of the Construction Contractors CEMP and Sub-plans, they will be governed by the Construction Contractors CEMP and Sub-plans.

The scope of this CCHMP is to describe how the Construction Contractors propose to manage potential Aboriginal and Non-Aboriginal heritage impacts during construction of the Project. The Construction Contractor responsible for each stage of the Project (M12 West, M12 Central, both M12 East (Elizabeth Drive connections) and M12 East (M7/M12 interchange) must use this CCHMP as the basis for their section specific CCHMP.

Early Works, as defined in the EIS Section 5.24.4 and OCEMP Section 2.4 do not fall within the scope of the OCEMP and Sub-plans. Furthermore, operational Aboriginal and Non-Aboriginal heritage impacts and operation measures do not fall within the scope of this CCHMP and therefore are not included within the processes contained within the CCHMP.

1.4 Environmental Management System overview

The overarching Environmental Management System (EMS) for the Project is described in Section 3 of the OCEMP. The Construction Contractor delivering the Project will have an EMS consistent with the overarching EMS described in the OCEMP and will develop stage-specific CCHMPs in accordance with the OCEMP, the Environmental Protection Licence (EPL) and their EMS. This overarching CCHMP forms part of the environmental management framework for the Project, as described in Section 3 of the OCEMP.

The Construction Contractor will be required to develop, as part of their stage-specific CCHMPs, detailed procedures and plans to address specific requirements of the CoA and REMMs identified in this overarching CCHMP.

In the preparation of this documentation, the Construction Contractor may reference or be informed by existing documents and strategies that describe Aboriginal heritage salvage methodology, including *Aboriginal Cultural Heritage Assessment Report (ACHAR)* (JAJV, 2019). Where appropriate, the Construction Contractor may provide TfNSW with an alternative equivalent procedure or plan that meets the requirements identified in this CCHMP and the relevant TfNSW specifications.

EWMS will be prepared by the Construction Contractor's Environmental Site Representative (ESR) and reviewed by the TfNSW Environment and Sustainability Manager (ESM) (or delegate) and independent Environmental Representative (ER) prior to the commencement of the construction activities to which they apply. Construction personnel undertaking a task governed by an EWMS will undertake the activity in accordance with the mitigation and management measures identified in the EWMS.

Used together, the OCEMP, strategies, procedures and EWMS form management guides that clearly identify required environmental management actions for reference by TfNSW and its Construction Contractor.

The review and document control processes for this CCHMP are described in Section 1.12.1 and Section 7.6.2 of the OCEMP. TfNSW will review the Construction Contractors documentation to confirm consistency with the requirements of this CCHMP and specifications.

1.4.1 CCHMP preparation, endorsement and approval

This overarching CCHMP has been prepared to satisfy the NSW CoAs in relation to the management of heritage values during construction of the Project.

This CCHMP will be reviewed by the TfNSW Project Director and the ESM and endorsed by the ER prior to submission to the Planning Secretary of DPIE for approval. This CCHMP will be submitted for the approval of the Planning Secretary no later than one month before commencement of construction of the Project, or as otherwise agreed by the Planning Secretary in accordance with NSW CoA C3 and NSW CoA C9.

In accordance with NSW CoA C10, construction of the Project will not commence before approval of the CCHMP by the Planning Secretary.

Refer to Section 1.12 of the OCEMP that details the overall revision process of OCEMP and Subplans.

1.4.2 Interactions with other management plans

This Plan has the following interrelationships with other management plans and documents:

- The Construction Flora and Fauna Management Plan detailing exclusions zone establishment and clearing and flagging protocols
- Heritage sites to be retained within construction worksites will be detailed on the Construction Contractors Sensitive Area Plans as detailed in Appendix A6 of the OCEMP
- The Sustainability Management Framework addresses the requirement to manage heritage items where reasonable and feasible
- Consultation between TfNSW and its Construction Contractor, stakeholders, the community and relevant agencies will be undertaken in accordance with the Overarching Communication Strategy (OCS) prepared by TfNSW to address the requirements of NSW CoA B1 and B2
- Unexpected Heritage Finds and Human Remains Procedure
- Results of non-Aboriginal heritage investigations and archival recordings will be included in the Archival Recording Heritage Report
- Results of the Aboriginal heritage detailed salvage program will be included in the Aboriginal Cultural Heritage Report.

1.5 Consultation

1.5.1 Consultation for preparation of the CCHMP

The following government agencies and stakeholders have been consulted through development of this CCHMP in accordance with NSW CoA C5(f):

- Heritage Council of NSW
- Heritage NSW
- WaterNSW
- Fairfield City Council (FCC)
- Penrith City Council (PCC)
- Liverpool City Council (LCC)
- Registered Aboriginal Parties (RAPs).

Additionally, the Unexpected Heritage Finds and Human Remains Procedure was provided to Registered Aboriginal Parties (RAPs) for review and comment. It is also noted that although REMM AH01 requires consultation with the Environment, Energy and Science (EES) Group, consultation is considered to have been completed through Heritage NSW. This is deemed appropriate, as at the time of EIS preparation the Aboriginal Cultural heritage regulator (Office of Environment and Heritage) was located within EES and the non-Aboriginal heritage team was within the Department of Premier and Cabinet (DPC Heritage). Both departments are now located within Heritage NSW.

In accordance with NSW CoA A5 (b), Table 1-1 provides a log of engagement or attempted engagement with the identified government agencies and stakeholders.

Table 1-1: Log of engagement with government agencies and stakeholders

Agency	Date	Person Contacted	Comment	Consultation Status
	7 September 2021	Heritage NSW Representative	TfNSW emailed CCHMP to Heritage NSW requesting comment.	Open
Heritage NSW	22 September 2021	Heritage NSW Representative	TfNSW contacted the Heritage NSW Representative via phone call, who indicated that they have no comments on the CCHMP (See Appendix A).	Closed
	7 September 2021	Water NSW Representative	TfNSW emailed CCHMP to Water NSW requesting comment.	Open
Water NSW	22 September 2021	TfNSW Representative	Response received from Water NSW via email (See Appendix A).	Open
	October 2021	Water NSW Representative	Updated plan and response table emailed to Water NSW to demonstrate how comments have been addressed.	Closed
	7 September 2021	FCC Representative	TfNSW emailed CCHMP to FCC requesting comment.	Open
Fairfield City Council	9 September 2021	TfNSW Representative	Response received from FCC via email (See Appendix A).	Open
	October 2021	FCC Representative	Updated plan and response table emailed to FCC to demonstrate how comments have been addressed.	Closed
	7 September 2021	PCC Representative	TfNSW emailed CCHMP to PCC requesting comment.	Open
Penrith City Council	7 October 2021	PCC Representative	TfNSW contacted the PCC Representative via phone and email to indicate that consultation is closed as no response has been received.	Closed
Liverpool City Council	7 September 2021	LCC Representative	TfNSW emailed CCHMP to LCC requesting comment.	Open
	29 September 2021	LCC Representative	TfNSW followed up the LCC Representative via email and received no response.	Open

Agency	Date	Person Contacted	Comment	Consultation Status
	7 October 2021	LCC Representative	TfNSW contacted the LCC Representative via phone, who indicated that will send through comments in the following week (11/10/2021).	Open
	October 2021	LCC Representative	LCC Representative notified that consultation has closed	Closed
RAPs	•	•		
All M12 Registered Aboriginal Parties (RAPs)	9 September 2021	Nominated RAPs	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Barraby Cultural Services requesting comment.	Open
	9 September 2021	Barraby Cultural Services Representative	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Barraby Cultural Services requesting comment.	Open
Barraby Cultural Services	13 September 2021	TfNSW Representative	Response received from Barraby Cultural Services via email stating that they support the CCHMP and have no comments (See Appendix A).	Closed
Mura Gadi Heritage Indigenous Corporation	9 September 2021	Mura Gadi Heritage Indigenous Corporation Representative	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Mura Gadi Heritage Indigenous Corporation requesting comment.	Open
	15 September 2021	TfNSW Representative	Response received from Mura Gadi Heritage Indigenous Corporation via email stating that they support the CCHMP and have no comments (See Appendix A).	Closed
Kamilaroi- Yankutjatjara	9 September 2021	Kamilaroi- Yankutjatjara Working Group Representative	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Kamilaroi- Yankutjatjara Working Group requesting comment.	Open
Working Group	30 September 2021	TfNSW Representative	Response received Kamilaroi- Yankutjatjara Working Group via email (See Appendix A).	Open

Agency	Date	Person Contacted	Comment	Consultation Status
	October 2021	Kamilaroi- Yankutjatjara Working Group Representative	Updated plan and response table emailed to Kamilaroi-Yankutjatjara Working Group to demonstrate how comments have been addressed.	Closed
	9 September 2021	Yurrandaali Cultural Services Representative	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Yurrandaali Cultural Services requesting comment.	Open
Yurrandaali Cultural Services	13 September 2021	TfNSW Representative	Response received from Yurrandaali Cultural Services via email (See Appendix A).	Open
	October 2021	Yurrandaali Cultural Services Representative	Updated plan and response table emailed to Yurrandaali Cultural Services to demonstrate how comments have been addressed.	Closed
Yulay Cultural	9 September 2021	Yulay Cultural Services Representative	TfNSW emailed the CCHMP and Unexpected Finds Procedure to Yulay Cultural Services requesting comment.	Open
Services	24 September 2021	TfNSW Representative	Response received from Yulay Cultural Services via email stating that they support the CCHMP and have no comments (See Appendix A).	Closed

In accordance with NSW CoA C4, A5 and E31, the consolidated evidence of consultation undertaken for the preparation of this CCHMP will be submitted to the Planning Secretary as part the document submission. The consolidated evidence of consultation includes:

- Documentation of the engagement with the parties identified above that occurred prior to submitting the document to the Planning Secretary for approval
- A log of the points of engagement or attempted engagement with the identified parties and a summary of the issues raised by them
- Documentation of the follow-up with the identified parties where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations.
- An outline of the issues raised by the identified parties and how they have been addressed and a cross reference to the section or Sub-plan of the OCEMP where the issue has been addressed

A description of the outstanding issues raised by the identified parties and the reasons why
they have not been addressed.

Refer to Appendix A for evidence of consultation undertaken with stakeholders and government agencies for the preparation of this Plan.

1.5.2 Ongoing consultation during Construction

Consultation between TfNSW and its Construction Contractor, and stakeholders, the community and relevant agencies regarding the management of Aboriginal and Non-Aboriginal heritage values within the Project area will be undertaken during the construction of the Project as required. The process for the consultation will be documented in the OCS.

Specific requirements of relevance to the management of heritage values, which have emerged through consultation under the Environmental Assessment Documentation are evident in the CoA and REMMs included in Appendix B.

Relevant outcomes from the ongoing investigation works for Item 4a, Upper Canal Air Shaft 3 will be included in the Stage-Specific CCHMP prepared by the Construction Contractor if required. The stage specific CCHMP will then be provided to relevant stakeholders for information..

In accordance with the amended REMM NAH05 (amended), prior to the commencement of construction, consultation with regards to the Fleurs Radio Telescope site will be undertaken by TfNSW with the CSIRO, Universities, amateur telescopic organisations, local heritage bodies and relevant special interest groups to determine if there is interest in retaining sub-surface cabling or other structures associated with Fleurs Radio Telescope site identified during archival recording, remote sensing or any unexpected additional cables.

2 Purpose and objectives

2.1 Purpose

The purpose of this CCHMP is to describe how Aboriginal and Non-Aboriginal heritage will be protected and managed during construction of the Project.

2.2 Objectives

The key objective of the CCHMP is to ensure that Aboriginal and Non-Aboriginal cultural heritage impacts are managed appropriately throughout the construction of the Project and consider the mitigation and management measures referred to in:

- Environmental Assessment Documentation
- NSW Conditions of Approval granted to the Project on 23 April 2021
- TfNSW QA Specifications
- All relevant legislation and other requirements described in Section 3.1 of this Plan.

To achieve this objective, the Construction Contractors will:

- Facilitate engagement with the local Aboriginal community in partnership to appropriately manage the Aboriginal cultural heritage values associated with the Project
- Undertake detailed salvage and/or test archaeological investigation of the site as required in accordance with the correct procedures and salvage or excavation methodologies
- Ensure appropriate controls and procedures are implemented during construction activities to avoid or minimise potential adverse impacts to Aboriginal and Non-Aboriginal heritage along the Project corridor
- Ensure appropriate measures are implemented to address the requirements of the CoA and the REMMs detailed in this Plan
- Ensure appropriate measures are implemented to comply with all relevant legislation and other requirements as described in Section 3.1 of this CCHMP.

2.3 Targets

Targets for the management of Aboriginal and Non-Aboriginal cultural heritage impacts during the Project include:

- Ensure full compliance with the relevant legislative requirements, CoA and environmental management measures
- Avoid or minimise disturbance, possible damage to heritage items or loss of Aboriginal and Non-Aboriginal heritage cultural heritage
- Follow correct procedures and ensure notification of any Aboriginal heritage objects/places uncovered during construction

- Provide appropriate archival photographic recording of Non-Aboriginal heritage items impacted by the Project (if not previously undertaken as Early Works)
- Ensure training is provided in the form of inductions to all Project personnel on heritage items, protection measures and unexpected heritage items procedures before they begin work on site
- Minimise impacts on, and complaints from, the community and stakeholders.

3 Environmental requirements

3.1 Relevant legislation and guidelines

3.1.1 Legislation

Legislation considered during the development of this Plan includes:

- Environmental Planning and Assessment Act 1979 (EP&A Act)
- National Parks and Wildlife Act 1974 (NPW Act)
- Heritage Act 1977 (Heritage Act)
- Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth).

Relevant provisions of the above legislation are identified in the register of legal requirements included Appendix A1 of the OCEMP.

3.1.2 Guidelines and standards

The main guidelines, specifications and policy documents relevant to this CCHMP include:

- TfNSW QA Specification G36 Environmental Protection (Management System)
- Procedure for Aboriginal Cultural Heritage Consultation and Investigation (Roads and Maritime Services, 2011)
- Cultural Heritage Guidelines (Roads and Maritime, November 2015)
- Standard Management Procedure: Unexpected Heritage Items (Roads and Maritime, November 2015)
- Significant Impact Guidelines 1.2 Actions on, or impacting upon, Commonwealth land, and actions by Commonwealth agencies (Department of Sustainability, Environment, Water, Population and Communities, 2013)
- Commonwealth Heritage Management Principles (Department of the Environment and Water Resources, 2007)
- NSW Government Policy on Aboriginal Participation in Construction (released 1 May 2015, updated 1 August 2016)
- Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (Office of Environment and Heritage (OEH), 2010)
- Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (OEH, 2010)
- Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH, 2011)
- Altering Heritage Assets (Heritage Office and DUAP, 1996)
- Archaeological Assessment Guidelines (NSW Heritage Office and NSW Department of Urban Affairs and Planning, 1996)

- Assessing Heritage Significance (NSW Heritage Office, 2001)
- Assessing Significance for Historical Archaeological Sites and "Relics" (NSW Heritage Branch, Department of Planning, 2009)
- Photographic Recording of Heritage Items Using Film or Digital Capture (Heritage Branch, 2006)
- The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance (2013).
- How to prepare archival records of heritage items (NSW Heritage Office, 1998).
- PS311 Environmental Design and Compliance, specifically:
- M12 Motorway Central Section Detailed Design Consistency Assessment Design and boundary changes between Cecil Park and east of Badgerys Creek (GHD, 2021)
- M12 Motorway Non-Aboriginal Heritage Consistency Assessment (Artefact, 2021).

TfNSW contract specifications are a key source of environmental protection management processes relevant to this CCHMP. The contract specifications set out environmental protection requirements, including Hold Points that must be complied with by the Construction Contractors during construction of the Project. A Hold Point is a point beyond which a work process must not proceed without express written authorisation from TfNSW.



3.2 Ministers Conditions of Approval

The primary NSW CoA relevant to the development of this Plan are listed in Table 3-1. Secondary conditions relevant to this Plan have been listed in Appendix B. A cross reference is also included to indicate where the CoA is addressed in this Plan or other Project management documents.

Table 3-1: Primary CoA

CoA No.	Condition Requirements	Applicability			Document Reference
		M12 West	M12 Central	M12 East	
A5	Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken and submitted to the Planning Secretary, and the terms of this approval require the document, monitoring program or review to be prepared/undertaken in consultation with identified parties, evidence of the consultation must be submitted to the Planning Secretary with the relevant document, monitoring program or review. The evidence must include:	✓	✓	*	Section 1.5.1 Appendix A
	(a) Documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;	1	1	1	
	(b) A log of the dates of engagement or attempted engagement with the identified party;	1	1	1	
	(c) Documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations;	✓	1	1	
	(d) Outline of the issues raised by the identified party and how they have been addressed; and	1	1	✓	
	(e) A description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.	✓	1	1	



CoA No.	Condition Requirements		pplicability	Document Reference	
		M12 West	M12 Central	M12 East	
C4	The following CEMP Sub-plans must be prepared in consultation with the relevant government and other agencies identified for each CEMP Sub-plan. Details of all information requested by an agency during consultation must be provided to the Planning Secretary as part of any submission of the relevant CEMP Sub-plan, including copies of all correspondence from those agencies as required by Condition A5.	*	1	1	This Plan Section 1.5.1 Appendix A
	(f) Heritage (including Aboriginal and non-Aboriginal) – Heritage Council of NSW, Heritage NSW, WaterNSW and relevant Council(s).				



3.3 Revised Environmental Management Measures

The primary REMMs relevant to the development of this Plan are listed in Table 3-2 below. Secondary REMMs relevant to this Plan are listed in Appendix B. A cross reference is also included to indicate where the REMM is addressed in this Plan or other Project management documents.

Table 3-0-2: Primary REMMs

ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
AH01	A Construction Cultural Heritage Management Plan (CCHMP) will be developed for the project in consultation with the project RAPs and EESG. The CCHMP will include:	Prior to construction	1	4	✓	This Plan Section 1.5.1 Section 6.1
	 An unexpected finds procedure for the discovery of Aboriginal ancestral remains, Aboriginal objects or new Aboriginal sites consistent with TfNSW Standard Management Procedure Unexpected Heritage Items (Roads and Maritime, 2015). This procedure will also outline requirements to manage unexpected human remains finds in accordance with NSW statutory requirements, and relevant guidelines and standards prepared by EESG. The Procedure will outline the process for consulting with the RAPs in the event that previously unidentified Aboriginal heritage is discovered. 		✓	*	·	Appendix C
	Procedures for the management and curation of salvaged Aboriginal objects		~	·	1	Aboriginal Cultural Salvage Strategy
	Detailed locations and installation procedures for fencing and protective coverings		*	~	✓	Section 6.4 Section 6.1.1 Section 6.1.3



ID	Measure/requirement	Timing	Applicability			Document	
			M12 West	M12 Central	M12 East	Reference	
0-7	Details of permissible activities inside protected Aboriginal areas		1	1	1	Section 6.4	
9:	 Procedures for consideration of heritage aspects within site inductions and toolbox talks for construction workers and supervisors. 		1	1	*	Section 7.2	
NAH01	A Construction Cultural Heritage Management Plan (CCHMP) will be prepared for the project as part of the CEMP in consultation with Heritage NSW. The CCHMP will include as a minimum:	Prior to construction	1	~	√	Section 1.5.1 Appendix A	
	A list, plan and maps with GIS layers showing the location of identified heritage items both within, and near, the construction footprint		1	*	1	Section 4.2	
	A significance assessment and statement of significance for each item		1	*	1	Section 4.2	
	 Protocols and procedures including inductions and toolbox talks for all contractors and sub-contractors working in the area to be informed of all exclusion zones, the elements and their significance, to prevent accidental damage or encroachment 		*	*	1	Section 7.2	
	Protocols and procedures to be implemented during construction to avoid or minimise impacts on items of heritage significance including protective fencing		~	~	*	Table 6-2 and Section 6.4	
	The TfNSW Unexpected Heritage Items Procedure (Roads and Maritime, 2015) which will be followed in the event that unexpected heritage finds are uncovered during construction.		1	1	✓	Appendix C	



3.4 TfNSW QA Specifications

The TfNSW QA specifications set out the minimum requirements for the detailed outcomes in terms of quality or performance expected in the finished product for construction projects and are relevant to various construction activities on work sites to minimise impacts to the environment. The TfNSW QA Specifications are Project contract documents and are not publicly accessible.

The Construction Contractor will incorporate the appropriate M12 TfNSW QA specifications into the stage-specific CCHMPs:

TfNSW G36 – Environmental Protection.

3.5 Key reference documents

The key reference documents for Aboriginal and Non-Aboriginal heritage within and adjacent to the Project corridor are:

- Aboriginal heritage Environmental Assessment Documentation specifically:
 - Exhibited EIS Section 7.5 and Appendix I Technical working paper: Aboriginal Cultural Heritage Assessment Report
 - AR Appendix E Aboriginal Heritage Supplementary Technical Memorandum
- Non-Aboriginal heritage Environmental Assessment Documentation specifically:
 - Exhibited EIS Section 7.6 and Appendix J Technical working paper: Non-Aboriginal Heritage Assessment Report
 - AR Appendix F Non-Aboriginal Heritage Supplementary Technical Memorandum.

The Project boundary and relevant heritage data is shown on the Sensitive Area Plans included in Appendix A6 of the OCEMP.

3.5.1 Additional heritage assessments

Particular heritage items were not previously captured within the Environmental Assessment Documentation, following adjustments to the construction footprint. Additional heritage assessments and investigations have therefore been undertaken following the EIS and Amendment Report exhibitions. The assessments and investigations are ongoing and are likely to be completed during construction. These currently include:

- M12 Motorway Non-Aboriginal Heritage Consistency Assessment (Artefact, 2021). The additional survey works found:
 - Fabric associated with the former location of Fleurs Synthesis Telescope antenna 'X₃'
 - Fabric associated with the former location of Fleurs Synthesis Telescope antenna 'X₄'
 - Concrete pads between antennas 'X₃' and 'X₄' likely to have been equipment for control and power
 - Sub-surface cables, power supply, and compressed air hoses
 - Sections of the former vehicle access track to antennas 'X₃' and 'X₄'



- M12, Upper Canal System Shaft 3: Stage 1 Works Heritage Impact Assessment (HIA) (Artefact, 2021) including:
 - Utility investigations to identify the location of a Jemena gas pipeline in the vicinity of the Upper Canal and establish an exclusion zone for Stage 2 Works
- M12, Upper Canal System Shaft 3: Stage 2 Works Statement of Heritage Impact (SHI) (Artefact, 2021) (in draft) including:
 - Investigations of the location of Shaft 3 aimed at confirming whether Shaft 3 is present within the M12 construction footprint
 - Preparation of a findings report that outlines the excavation work procedures and results
- TfNSW, Water NSW Upper Canal System Shaft no. 3 Heritage Investigation Minor Works Review of Environmental Factors (TfNSW, 2021)
 - To locate Air Shaft 3 within the Upper Canal Alignment.

The assessments have been incorporated into this Plan with reference to impacts on additional elements of the heritage items. This Plan will continue to be updated following the outcomes of the assessments and investigations for each heritage item.



4 Existing Environment

The following section summarises the heritage values within and adjacent to the Project corridor, based on information contained in the Environmental Assessment Documentation and Heritage assessments as detailed in Section 3.5.1.

4.1 Aboriginal cultural heritage

4.1.1 Aboriginal cultural heritage sites

Field surveys and test excavations carried out to inform the Environmental Assessment Documentation determined there is a continuous but variable distribution of Aboriginal objects across the construction footprint and detailed investigation area. While much of the landscape has been subjected to high levels of ground disturbance, resulting from excavation and quarrying activities, and intensive clearing and farming, a total of 19 Aboriginal cultural heritage sites were identified within the construction footprint, as listed in Table 4-1.

Most of the Aboriginal cultural heritage sites consist of broad distributions of Aboriginal stone artefacts associated with major creeks; these watercourses provided water, food sources, and cultural significance for Aboriginal groups. These sites are expected to extend well into comparable landscapes outside of the construction footprint. These locations are shown in Figure 4-1.

The assessment significance criteria used to determine the significance for each Aboriginal cultural heritage site was based Australia International Council on Monuments and Site (ICOMOS) Burra Charter (Australia ICOMOS, 2000) in the Environmental Assessment Documentation. The criterion includes:

- Social value
- Historical value
- Scientific value
- Aesthetic value
- Spiritual value.

These values together, provided an "overall statement of significance" for each Aboriginal cultural heritage site as detailed in Table 4-1.

Table 4-1: Aboriginal cultural heritage sites located in the construction footprint

Site Name	Description	Overall statement of significance
45-5- 3804 (Isolated artefact 4)	Stone artefact site (single artefact)	Low
45-5- 4747 (M12A1)	Surface stone artefact site	Low



Site Name	Description	Overall statement of significance
45-5- 4786	Single stone artefact, not be relocated during project	Low
(TNR-AFT-14)	fieldwork. Site is located within TNR PAD. No other artefacts were discovered in the PAD; therefore, site remains as a single stone artefact	
Cosgroves Creek West (CCW)	PAD on the western side of Cosgroves Creek in the vicinity of trotting tracks with exposed artefacts.	Moderate
Cosgroves Creek East T1 (CCE T1)	PAD on a low dividing ridge east of Cosgroves Creek. Continuous with Cosgroves Creek East T2.	Moderate
Cosgroves Creek East T2 (CCE T2)	PAD on a low rise over a second-order tributary. Continuous with Cosgroves Creek East T1 and T3.	Moderate
Cosgroves Creek East T3 (CCE T3)	PAD on high ground distant from watercourses. Continuous with Cosgroves Creek East T2.	Moderate
Badgerys West B (BWB)	PAD on a prominent hillock and low ridge overlooking South Creek. Incorporates 45-5-4747	Moderate
Badgerys Creek West (BCW)	PAD on floodplain and gentle slopes of Badgerys Creek adjacent to Elizabeth Drive	High
Badgerys Creek East (BCE)	PAD on floodplain of South Creek. Continuous with South Creek West T1.	High
South Creek West T1 (SCW T1)	PAD on floodplain on the western edge of South Creek. Continuous with South Creek West T2 and South Creek East.	High
South Creek West T2 (SCW T2)	PAD on a low rise running north–south and parallel to South Creek. Continuous with Badgerys Creek East and South Creek West T1.	High
South Creek East (SCE)	PAD on floodplain on the eastern side of South Creek. Continuous with South Creek West T1.	High
Kemps North West (KNW)	Gentle slopes on the western side of Kemps Creek.	Moderate
Kemps Creek West (KCW)	Creek flats on the western side of Kemps Creek. Continuous with Kemps Creek East	Moderate
Kemps Creek East (KCE)	Creek flats on the eastern side of Kemps Creek. Continuous with Kemps Creek West.	Low
RR	Excavation area across site on gentle slopes along a first order drainage line.	Low
PCP8	Excavation area across site on ridgeline and hillslopes exposed by a fire trail.	Moderate



Site Name	Description	Overall statement of significance
Cecil Hills Ridge PAD (CHRP)	Excavation area across site on high hillslope and ridgetop above the M7 Motorway. Incorporates 45-5-4935.	High

An additional seven Aboriginal cultural heritage sites are located outside of the construction footprint but within the detailed investigation area. These seven sites are listed in Table 4-2. The significance of these sites was not assessed (excluding PAD-OS-7 and KC/ED2), and they will not be impacted upon by construction.

Table 4-2: Aboriginal cultural heritage sites located outside of the construction footprint

Site Name	Description
CP AS1	Stone artefact site
P-CP9	Stone artefact site
PAD-OS-5	Stone artefact site: initially a PAD with artefacts discovered in test excavation
PAD-OS-7	Stone artefact site: initially a PAD with artefacts discovered in test excavation
DLC 2	Stone artefact site
M12A5	Stone artefact site
KC/ED2	Stone artefact site



4.2 Non-Aboriginal cultural heritage

4.2.1 Non-Aboriginal heritage items

Twelve registered or potential heritage sites were considered to occur within the Project corridor assessed in the EIS, and one heritage site, Item 12, is located immediately adjacent to the Project corridor.

Following a significance assessment, comparative analysis and test excavations, it was determined that nine items within or adjacent to the Project corridor were assessed as having either local, State or potentially National heritage significance.

Following further heritage assessments, an additional heritage item (Item 4a) was investigated and has been included in Table 4-3 below.

These ten items are listed in Table 4-3 and mapped in Figure 4-2.



Table 4-3: Description of heritage items of significance, within and immediately adjacent to the Project (EIS)

Heritage item name	Description and significance	Photographs			
Registered heritage	ge items				
Item 1: McGarvie Smith Farm (Penrith Local Environmental Plan (PLEP) 857)	The McGarvie Smith Farm overlaps with the study area on Lot 62 DP 1087838 and Lot 63 DP 1087838. The heritage item is located inside the Project's construction footprint. It was surveyed on 14 November 2017 (Survey Area No. 5). During the field survey, a number of farm buildings, silo, concrete remnants, timber posts, sheds, dams, earth ditches and other features were noted. The farm is assessed as being of State significance.	Example of the farms onsite (Farm 2, facing southwest)	Silo and concrete remnants, facing west		
Item 2: Fleurs Radio Telescope Site (PLEP 832)	The Fleurs Radio Telescope intersects with the study area on Lot 21 DP 258414. The South Creek 1 and 2 heritage items are about 80 metres north of the construction footprint. The site was surveyed on the 20 and 21 October 2017 by Wallis Heritage Consulting (Gorman 2018). During the field survey a number of buildings, remains of antennas, antenna footing trenches, concrete plinths, concrete pads, cabling, signal				



Heritage item name	Description and significance	Photographs				
	boxes, fabrics and demolition material were noted. Additional surveys in the South Creek 3 and 5 Antenna Complex and South Creek 4 (Lot 104 DP 1271336) and Lot 102 DP 1271336) revealed additional fabrics for antennas X ₃ and X ₄ , former access to the antennas, concrete pads and concrete plinths, cables and a high pressure hose and metal shed located within the amended construction footprint. The area around the Fleurs site is mostly grazing and farmhouses and the land is zoned low lying rural/commercial. The site is considered to have State and potentially National significance	South Creek 1 Antenna Complex signal box (Wallis Heritage Consulting, 2018)	South Creek 1 Antenna complex, antenna trench looing east (Wallis Heritage Consulting, 2018)			
Item 3: Luddenham Road Alignment (PLEP 843)	Luddenham Road bisects the study area for about 347 metres. It was surveyed on 16 November 2017 (Survey Area No. 12). The heritage item is located inside the construction footprint. Within the study area, Luddenham Road comprises modern asphalt with no remnants of the original road visible. The road is located within the original cadastral location with road reserve either side. Luddenham Road is considered to have local historical significance					



Heritage item name	Description and significance	Photographs				
		Luddenham Road, eastern road reserve, facing south				
Item 4: Upper Canal System (Pheasants Nest Weir to Prospect Reservoir) (SHR 01373)	The Upper Canal System bisects the study area in the southwestern and northeast corner of the Elizabeth Drive and M7 interchange on Lot 1 DP 603946 and Lot 51 DP811015. The heritage item is partly located inside the construction footprint. It was surveyed on 1-2 March 2018 (Survey Area Nos. 36 and 42).					
	While the canal itself is about 32 metres underground (in tunnel), the Tunnel Shaft 4 is located at the surface within the study area. The shaft was observed from The M7 eastern road reserve within the median of the M7 Motorway.					
	The Upper Canal System is assessed as being of State significance.	View of surface over northeast section of the pipeline, facing northeast	Tunnel Shaft 4 as viewed from eastern road reserve, facing southwest			
Item 4a: Upper Canal System, (Pheasants Nest Weir to Prospect	The Upper Canal System is located south-west of the intersection of Wallgrove Road and Elizabeth Drive, Cecil Hill on Lot 21 DP 1109551.					
Reservoir), Air Shaft 3 (SHR 01373)	Dilapidation survey and 3D laser survey of the canal and ground penetrating radar of the calculated position of Shaft No. 3 has been completed, and further investigations are being undertaken, as detailed in Section 3.5.1 to determine the exact position and establish the					



Heritage item name	Description and significance	Photographs				
	presence/absence of Shaft 3 within the Project footprint. The Upper Canal System is assessed as being of State significance.	Predicted location of shaft 3, facing southwest				
Identified during p	previous heritage assessments					
Item 6: McMaster Field Station/McMaster Farm	The McMaster Farm also known as McMaster Field Station, is located on Lot 101 DP848215 and was surveyed between 13 and 15 November 2017 (Survey area no. 4). The heritage item is located inside the Project's construction footprint. During the field survey a number of buildings, silos, animal pens and stockyards, dams, ditches, concrete remnants, bricks and earthworks were noted. The field station/ farm is assessed as being of State significance.	Building 3, facing south	Silo 1, facing southeast			



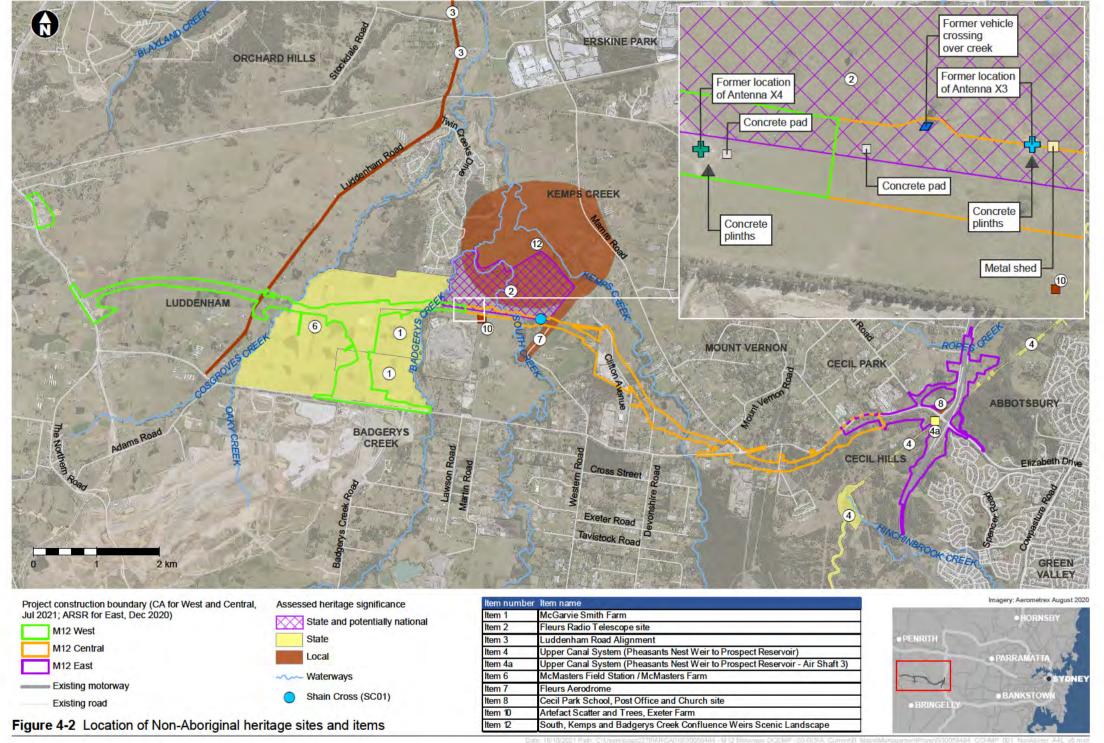
Heritage item name	Description and significance	Photographs	
Item 7: Fleurs Aerodrome	The Fleurs Aerodrome is located on Lot 2 DP88836 and was surveyed on 27 February 2018 (Survey area no. 21). The heritage item is partially located inside the construction footprint. Currently at the property there are three sections of the former airstrip: A short airstrip of bitumen that appears to be disused A grassed area south and north of the existing airstrip Building remains (north of the grassed area – outside the study area). A modern shed is also located at the southern end of the airstrip and a large metal structure is located at the northern end of the current bitumen airstrip. It is unknown if the metal structure is connected with the original aerodrome. The Fleurs Aerodrome is considered to have local historical significance.	Existing runway (disused) facing north	Metal feature at northern end of runway, facing southwest



Heritage item name	Description and significance	Photographs	
Item 8: Cecil Park School, Post Office and School Church	Cecil Park Public School is located on Lot 1 DP724970 and was surveyed on 1 March 2018 (Survey area no. 38) as well as on 1 August 2018. The heritage item is located inside the construction footprint. During the field survey bricks pieces and rubble, large exotic trees, circular depressions, bottles, vehicles tracks, levelled areas, in-situ footings and large rubbish pile were noted. Cecil Park School is considered to have local historical significance.		
		Metal object located centre, western side of property	Rubble mound in southwestern corner of property
Item 10: Exeter Farm Archaeological Site (Artefact Scatter and Trees)	This heritage item is located inside the study area and partially within the construction footprint. During the field survey, a row of trees forming a hedge that may be Osage-orange trees (Maclura pomifera) were observed. The Osage-orange was traditionally used in hedges for stock management and in colonial gardens. No buildings are visible however an angled depression is visible both on the ground and on the 1947 aerial image. East of the trees, an artefact scatter was noted, situated within a large depression in the ground. The artefact scatter comprises bricks, metal,	Area of site, facing southwest, with row of trees in background.	19th century ceramic fragment located on ground surface.



ceramic and glass across an area about 50 metres wide. Exeter Farm Archaeological Site is considered		
o have local historical significance.		
This heritage landscape is not located within the study areas, but is located immediately adjacent. Within the part of the landscape investigated mmediately adjacent to the study area (Lot 21 DP258414), no weirs were observed, and the area did not overlap with any of the three creeks. South Creek is located adjacent (west) to the study area. Badgerys Creek is located around 930 metres west of the study area and Kemps Creek is located 1.2 kilometres northeast of the study area. This heritage landscape area also overlaps with the Fleurs Radio Telescope site. Vegetation at this location comprised of grass in an open paddock environment with occasional small trees located in the vicinity of buildings associated with the eastern side of the Fleurs Radio Telescope site.	Part of the scenic landscape adjacent to the study area, facing northwest	Part of scenic landscape adjacent to the study area, facing southeast
or Con	ithin the part of the landscape investigated mediately adjacent to the study area (Lot 21 P258414), no weirs were observed, and the ea did not overlap with any of the three eeks. South Creek is located adjacent (west) the study area. Badgerys Creek is located ound 930 metres west of the study area and emps Creek is located 1.2 kilometres northeast the study area. It is heritage landscape area also overlaps with a Fleurs Radio Telescope site. Regetation at this location comprised of grass in a open paddock environment with occasional hall trees located in the vicinity of buildings sociated with the eastern side of the Fleurs	ady areas, but is located immediately adjacent. Within the part of the landscape investigated mediately adjacent to the study area (Lot 21 P258414), no weirs were observed, and the ea did not overlap with any of the three eeks. South Creek is located adjacent (west) the study area. Badgerys Creek is located ound 930 metres west of the study area and emps Creek is located 1.2 kilometres northeast the study area. Whis heritage landscape area also overlaps with the Fleurs Radio Telescope site. The egetation at this location comprised of grass in a open paddock environment with occasional hall trees located in the vicinity of buildings sociated with the eastern side of the Fleurs adio Telescope site. Whis Scenic Landscape is considered to have



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5 Environmental aspects and impacts

5.1 Construction activities

Key aspects of construction of the Project that could result in adverse impacts to Aboriginal and Non-Aboriginal heritage include:

- Early Works including non-substantial construction activities such as services relocations
- Planned salvage of Aboriginal and Non-Aboriginal heritage items
- Initial clearing and/or grubbing of vegetation
- Initial removal of topsoil
- Construction of ancillary facilities and site compounds and spoil / mulch and / or equipment stockpile areas
- Temporary access roads during construction
- Earthworks and excavations during construction
- Drainage infrastructure upgrades
- Bridge construction
- Demolition of existing structures
- Construction of pavements
- Cumulative impacts.

Refer also to the Aspects and Impacts Register included in Appendix A2 of the OCEMP.

5.2 Aboriginal heritage impacts

Twenty Aboriginal cultural heritage sites are located within the construction footprint. The impact assessment identified the following sites within the construction footprint:

- Nineteen sites will be subject to direct harm
- Eleven sites will be subjected to partial harm
- Eight sites will be subjected to total harm

A summary of the impacts on each Aboriginal cultural heritage site located within the construction footprint is provided in Table 5-1 below.



Table 5-1: Aboriginal heritage site impacts

Site Name	AHIMS ID	Registered AHIMS sites	Assessed significance of site	Type of harm	Degree of harm	Consequence of harm
Sites within	the construc	tion footprint			i e	
CCW	ТВС		Moderate	Directly harmed (5 ha)	Partial	Partial loss of value; site estimated to extend to the north and south of the construction footprint for about 1 km
CCE T1	твс	1	Moderate	Directly harmed (4.5 ha)	Partial	Partial loss of value; site estimated to extend to the north and south of the construction footprint for about 1 km
CCE T2	твс		Moderate	Directly harmed (6.6 ha)	Partial	Partial loss of value; site estimated to extend to the north and south of the construction footprint for about 1 km
CCE T3	TBC		Moderate	Directly harmed (20 ha)	Partial	Partial loss of value; very diffuse background scatter estimated to extend to the north and south of the construction footprint for about 1 km
BWB	твс	3.	Moderate	Directly harmed (1.7 ha)	Partial	Partial loss of value; site estimated to extend to the north of the construction footprint several hundred metres
BCW	ТВС	1 2	High	Directly harmed (1.4 ha)	Total	Total loss of value
BCE	TBC	45-5-0528 (Fleurs 2) 45-5-4750 (M12 A3) 45-5-4748 (M12 A2)	High	Directly harmed (5.8 ha)	Partial	Partial loss of value; site estimated to extend to the north of the construction footprint for about 0.8 km



Site Name	AHIMS ID	Registered AHIMS sites	Assessed significance of site	Type of harm	Degree of harm	Consequence of harm
SCW T1	твс	45-5-0496 45-5-4749 45-5-0528 45-5-4750	High	Directly harmed (3.6 ha)	Partial	Partial loss of value; site estimated to extend to the north and south of the construction footprint for several hundred metres
SCW T2	твс	4	High	Directly harmed (0.9 ha)	Partial	Partial loss of value; site estimated to extend to the north of the construction footprint for 0.2 km
SCE	ТВС	45-5-0496 (Fleurs 1) 45-5-4749 (M12 A4)	High	Directly harmed (5.6 ha)	Partial	Partial loss of value; site estimated to extend to the north of the construction footprint for several hundred metres; loss of silcrete source and associated quarrying evidence
KNW	TBC	-	Moderate	Directly harmed (11.4 ha)	Partial	Partial loss of value; site estimated to extend to the east and north of the construction footprint for several hundred metres
KCW	TBC	j.	Moderate	Directly harmed (3.6 ha)	Partial	Partial loss of value; site estimated to extend to the east and north of the construction footprint for several hundred metres
KCE	ТВС	1	Low	Directly harmed (1.5 ha)	Total	Total loss of value
PCP8	45-5-2308	45-5-2308	Moderate	Directly harmed (0.1 ha)	Total	Total loss of value
CHRP	45-5-4935	45-5-4935	High	Directly harmed (0.4 ha)	Total	Total loss of value



Site Name	AHIMS ID	Registered AHIMS sites	Assessed significance of site	Type of harm	Degree of harm	Consequence of harm
RR	45-5-4937 45-5-4007	45-5-4937 45-5-4007	Low	Directly harmed (0.5 ha)	Total	Total loss of value
M12A1	45-5-4747	45-5-4747	Low	Directly harmed (0.02 ha)	Total	Total loss of value
Isolated artefact 4	45-5-3804	45-5-3804	Low	Directly harmed	Total	Total loss of value
TNR-AFT- 14	45-5-4786	45-5-4786	Low	Directly harmed	Total	Total loss of value
Sites within	the detailed i	nvestigation area	(outside the con	struction footprint)		
CP AS1	45-5-4374	45-5-4374	(not assessed)	No harm	None	No loss of value as this site is located over 200 metres from the construction footprint
P-CP9	45-5-2307	45-5-2307	(not assessed)	No harm	None	No loss of value as this site is about 140 metres from the construction footprint
PAD-OS-7	45-5-2721	45-5-2721	Low	No harm	None	No loss of value as this site will be protected by an exclusion zone to avoid direct disturbance
PAD-OS-5	45-5-2723	45-5-2723	(not assessed)	No harm	None	No loss of value as this site is about 200 metres from the construction footprint
DLC 2	45-5-2563	45-5-2563	(not assessed)	No harm	None	No loss of value as this site is about 50 metres from the construction footprint and on private property that won't be impacted.



Site Name	AHIMS ID	Registered AHIMS sites	Assessed significance of site	Type of harm	Degree of harm	Consequence of harm
M12A5	45-5-4767	45-5-4767	(not assessed)	No harm	None	No loss of value as this site is about 200 metres from the construction footprint.



5.3 Non-Aboriginal heritage impacts

The Environmental Assessment Documentation found that of the nine heritage items within or adjacent to the Project corridor, five heritage items are subject to physical impacts as a result of the Project. Following the implementation of management measures, the Project will have a major impact on four items and a minor impact on one item, these are:

- Major heritage impact:
 - Item 1: McGarvie Smith Farm
 - Item 6: McMaster Field Station
 - Item 7: Fleurs Aerodrome
 - Item 8: Cecil Park School, Post Office and Church Site
- Minor heritage impact:
 - Item 2: The Fleurs Radio Telescope Site.

The Project was assessed as having a negligible impact on the remaining five heritage items, these are:

- Item 3: Luddenham Road Alignment
- Item 4: Upper Canal System
- Item 4a: Upper Canal System air shaft 3, results of the investigation works are pending.
- Item 10: Exeter Farm Archaeological Site
- Item 12: South, Kemps and Badgerys Creek Confluence Weirs Scenic Landscape.

Table 5-2 includes a summary of the anticipated impacts to Non-Aboriginal heritage items resulting from the Project.



Table 5-2: Summary of potential impacts on Non-Aboriginal heritage items

Item	Listing	Significance	Proposed activities	Potential impacts	Heritage significance and implications
Item 1: McGarvie Smith Farm	PLEP 857	Listed under Penrith LEP as Local, but assessed as State for the purpose of this EIS	Construction of dual carriageway motorway with two lanes in each direction and access road to the planned Western Sydney International Airport at Badgerys Creek	The Project will bisect the entire site and result in the demolition of five buildings and one silo: McGarvie Smith Farm 6 McGarvie Smith Farm 7 McGarvie Smith Farm 8 Shed 1 Shed 2.	Major impact The proposed works within McGarvie Smith Farm will be of medium-large scale and moderate intensity, with the demolition of the buildings and silo being permanent and irreversible. The M12 Motorway will bisect the farm resulting in ongoing impacts during the operation of the Project. The level of impact on the heritage items overall will be major.
Item 2: The Fleurs Radio Telescope Site	PLEP 832	Listed under Penrith LEP as Local, but assessed as State and potentially National for the purpose of this EIS	Construction of dual carriageway motorway with two lanes in each direction	The Project will demolish several elements of the Fleurs Radio Telescope site including the Shain Cross (SC01) and the visual components of the South Creek 3 and 5 Antenna Complex and South Creek 4 which are located within the construction footprint.	Minor impact The proposed works within Fleurs Radio Telescope site will be at a localised scale and low intensity, with the demolition of the Shain Cross, the visual components of the South Creek 3 and 5 Antenna Complex and South Creek 4 including concrete plinths, concrete pads, former access to the antennas X ₃ and X ₄ used for equipment control and power that will be permanent and irreversible. Operational impacts on the site may occur due to the proximity of vibration and traffic fumes on the significant fabric, however the specific impacts at this stage are unknown. The level of



Item	Listing	Significance	Proposed activities	Potential impacts	Heritage significance and implications
					impact on the heritage item overall will be minor.
ltem 3: Luddenham Road Alignment	PLEP 843	Listed under Penrith LEP as Local	Construction of dual carriageway motorway with two lands in each direction.	No physical impacts as there is little or no original physical road fabric or associated features within study area to be impacted.	Negligible impact
Item 4: Upper Canal System	SHR 01373, LLEP	Listed under State Heritage Register as State Listed under LLEP as Local	Construction of grade— separated interchanges including associated ramps, with M7 Motorway	The Project will not modify or otherwise cause direct or indirect damage to the Upper Canal System including the Cecil Hills Tunnel and Tunnel Shafts 3 & 4. The Project will consider the Upper Canal Pheasants Nest to Prospect Reservoir Conservation Management Plan (NSW Public Works Governments Architect's Office, 2016) and Guidelines. This includes working closely to the Upper Canal and Warragamba Pipelines. No sections of pipeline that are located underground will be impacted. The Tunnel Shaft 4, located in the M7 central road median, will not be demolished as this location will not be subject to works. 4a Air Shaft 3: The Project will not destroy any sections of tunnel that is located underground. Impact to Air Shaft 3, located in south-west will be avoided through design modification, as required.	Negligible impact



Item	Listing	Significance	Proposed activities	Potential impacts	Heritage significance and implications
Item 6: McMaster Field Station	N/A	Not currently listed but assessed in this report as State for the purpose of this EIS	Construction of grade– separated interchanges including associated ramps, with access road to the planned Western Sydney International Airport at Badgerys Creek	The Project will bisect the landscape of the McMaster Farm overall as the dual carriageway and interchange will be located within the property. Some modified landscape elements will be destroyed by the project. A potential construction laydown area overlaps with the complex of buildings on the property, and may be reused as construction offices and facilities.	Major impact The proposed works within McMaster Field Station will be of medium-large scale and moderate intensity, with some of the changes being permanent and irreversible. The landscape of the heritage item will be impacted by the construction of the project. Operational impacts will be applicable as the Project bisects the heritage item. The level of impact on the heritage item overall will be major.
Item 7: Fleurs Aerodrome	N/A	Not currently listed but assessed as local for the purpose of this EIS	Construction of dual carriageway motorway with two lanes in each direction	The proposed construction footprint will bisect the previous runway to the north of the existing runway. A remnant metal object is located 13 metres south of the construction footprint and is unlikely to be impacted by the Project.	Major impact The proposed works within the Fleurs Aerodrome will be of mediumlarge scale and moderate intensity, with the changes being permanent and irreversible. The landscape of the heritage item will be impacted by the construction of the project. Operational impacts will be applicable as the project bisects the heritage item. The level of impact on the heritage item overall will be major.



Item	Listing	Significance	Proposed activities	Potential impacts	Heritage significance and implications
Item 8: Cecil Park School, Post Office and Church Site	N/A	Not currently listed but assessed as local for the purpose of this EIS	Construction of grade– separated interchanges including associated ramps, with M7 Motorway	The Project will physically disturb and destroy the area of archaeological potential through ground disturbance activities.	Major impact The proposed works within the Cecil Park historical complex will be of medium-large scale and moderate-high intensity, with the changes being permanent and irreversible. Construction impacts on Item 8 will cause physical damage to the entire area of archaeological potential within the heritage item, with the exception of the Cecil Park school site. As the construction will remove most of the archaeological aspects of the heritage item, it will no longer be of significance and will therefore not be subject to further operational impacts. The level of impact on the heritage item overall will be major.
Item 10: Exeter Farm Archaeological Site	N/A	Not currently listed but assessed as local for the purpose of this EIS	Construction of dual carriageway motorway with two lanes in each direction	Currently located 50 metres south of the Construction Footprint and therefore no impact.	Negligible impact



Item	Listing	Significance	Proposed activities	Potential impacts	Heritage significance and implications
Item 12: South, Kemps and Badgerys Creek Confluence Weirs Scenic Landscape	N/A	Not currently listed but assessed as local for the purpose of this EIS	Construction of dual carriageway motorway with two lanes in each direction	There will be no direct impacts associated with the Project as works will not be carried out within the item's curtilage. There will be no direct impacts associated with the Project as works will not be carried out within the item's curtilage. The potential hydrological changes associated with the project are minor and localised.	Negligible impact



5.4 Cumulative impacts

Cumulative Aboriginal and non-Aboriginal heritage impacts may arise from the interaction of construction and operation activities of the Project and other approved or proposed projects in the area. When considered in isolation, specific impacts may be considered minor. These minor impacts may be more substantial however, when the impact of multiple projects on the same receivers is considered.

As detailed in the Environmental Assessment Documentation, a multitude of other projects in the area are currently being constructed with the area including:

- The Western Sydney International Airport
- Sydney Metro Western Sydney Airport
- The Northern Road
- Planned road upgrades and land releases such as Western Sydney Aerotropolis.

Cumulative Aboriginal heritage impacts during construction include the disturbance of 40 ha of archaeologically sensitive South Creek alluvium which occurs along waterways. This may cause moderate impact to Aboriginal objects, site complexes and cultural landscapes. It should be noted that this area contains a large cultural value to the Darug people. The Aboriginal Heritage Interpretation Plan will consider cumulative Aboriginal heritage impacts.

Cumulative Non-Aboriginal impacts during construction although transformative, are considered relatively minor as they are addressed and managed through the implementation of a range of environmental mitigation measures.

Interagency communication between government departments, stakeholders and RAPs undertaking Work in the area will be managed by TfNSW with the aim of combining messages when possible and minimising heritage impacts to the local community.

Consultation will be undertaken with neighbouring properties and with personnel who will be undertaking work on other projects within the vicinity of the M12 Motorway construction to ensure they are aware of any exclusion zones or sensitive areas identified for the Project.



6 Environmental mitigation and management measures

6.1 Aboriginal heritage

Aboriginal heritage sites across the Project will be managed as outlined in Table 6-1. Refer to the following sections for further detail on each management strategy.

Table 6-1: Management strategies for Aboriginal heritage sites

Management strategy	Strategy description	M12 West	M12 Central	M12 East
Active avoidance	Carry out investigations during detailed design to maximise the retention of intact cultural deposits, particularly those within the CHRP and sites located under the elevated structures over Badgerys Creek and South Creek.	• BCW	• BCE • SCW T1 • SCW T2 • SCE	• CHRP
Passive avoidance	No active protection measures required due to a lack of direct impacts or low archaeological significance.	-	KC/ED2KCEPCP9CP AS1M12A5	PAD-OS-7PAD-OS-5DLC2
Active protection	Protection provided in the form of fencing along the edge of the construction footprint closest to the site with signage notifying construction personnel to avoid ground impacts.	CCWCCE T1CCE T2CCE T3BWBBCW	BCESCW T1SCW T2SCEKNWKCW	• CHRP
Active protection	Protection will be provided in the form of an exclusion zone and appropriate barrier / fencing along the portion of AHIMS site 45-5-2721 (PAD-OS7) that extends into the construction footprint, with visible signage notifying construction personnel to avoid ground impacts.	-		AHIMS site 45-5-2721 (PAD-OS-7)
Salvage collection	Salvage collection is warranted at those Aboriginal cultural heritage sites in the construction footprint where stone artefacts were recorded on the surface. Salvage collection is to record MGA coordinates of each artefact by GPS and relevant artefact attributes consistent with the broader archaeological salvage analysis. Salvage collection will be carried	Isolated Artefact 4 TNR- AFT-14 M12A1	BCE SCW T2 KCW PCP8 RR	• CHRP



Management strategy	Strategy description	M12 West	M12 Central	M12 East
	out by a suitably qualified archaeologist.			
Salvage excavation	Salvage excavation is warranted at those Aboriginal cultural heritage sites that were assessed as having high scientific and high overall significance. Salvage excavation will be carried out by a suitably qualified archaeologist.	• CCW • BWB • BCW	• SCW T1 • SCW T2 • SCE • KCW	• CHRP
Archaeological Test excavation	If construction restrictions result in impacts to area of PAD associated with AHIMS site 45-5-2721 (PADOS-7), archaeological test excavation is required, to be conducted in accordance with Requirement 16a of the Code of Practice for Investigation of Aboriginal Objects in NSW (DECCW 2010), Stage 2 Aboriginal Cultural Heritage Consultation and Investigation (PACHCI) (Roads and Maritime 2011) and in consultation with RAPs (refer to Section 1.5.1). This will only be a requirement if avoidance cannot be achieved.			AHIMS site 45-5-2721 (PAD-OS-7)

6.1.1 Active avoidance

Active avoidance involves the retention of heritage sites located between elevated structures over Badgerys Creek and South Creek. This will be achieved through detailed design with the objective to maximise the retention of intact, cultural deposits in the zone between bridge pylons.

Active avoidance strategies to be employed in proximity of heritage sites include:

- Fencing exclusion areas (see Section 6.4)
- Minimising construction areas
- Locating and designing haulage and other access roads to minimise disturbance of soils
- Covering cultural deposits with geotextile fabric and clean fill to reduce the potential for inadvertent damage.

Maximising protection is particularly important in the zone within 100 metres of creeks. Sites for active avoidance management are listed in Table 6-1.

6.1.2 Passive avoidance

Sites nominated for passive avoidance do not require specific management measure because they are either located a sufficient distance outside of the construction footprint, or in the case of KCE, does not require active protection due to the low archaeological significance of the site.



Sites for passive avoidance are listed in Table 6-1.

6.1.3 Active protection

Sites that are partially impacted by the Project require active protection for those parts of each site that are located outside of the construction footprint, where sites are estimated to continue outside of the construction footprint.

Protection measures will include installation of temporary fencing around the portion of the site that is located outside of the construction footprint, with the erection of signage for construction personnel to avoid ground disturbance (see Section 6.4).

PAD-OS-7 occurs outside the construction footprint but will be entirely protected by exclusion zones as detailed in Section 6.4.

Sites requiring active protection through fencing and exclusion areas are listed in Table 6-1.

6.1.4 Salvage collection

Salvage collection is required at sites in the construction footprint where stone artefacts have been recorded on the surface. Salvage collection will be undertaken as low impact work by a suitably qualified archaeologist as detailed in the Aboriginal Cultural Salvage Strategy. As required by REMM AH02, the Aboriginal Cultural Salvage Strategy has been prepared in consultation with the Project RAPs and EESG. At a minimum, salvage collection will involve the recording of MGA GPS coordinates for each artefact and relevant artefact attributes. The results of the salvage collection will be documented in an Aboriginal Cultural Heritage Report which will be issued to the RAPs for information, and Planning Secretary no later than 12 months after the completion of the salvage work.

Sites requiring salvage collection are listed in Table 6-1.

6.1.5 Salvage excavation

Salvage excavation is required at Aboriginal cultural heritage sites assessed as having high scientific and overall significance. Salvage excavation will be undertaken by a suitably qualified archaeologist and nominated site officers for the relevant RAP. The details of salvage excavation methodology are included in the Aboriginal Cultural Salvage Strategy. The results of the salvage excavation will be documented in an Aboriginal Cultural Heritage Report which will be issued to the RAPs for information, and Planning Secretary no later than 12 months after the completion of the salvage work.

If impacts to PAD-OS-7 are unavoidable, salvage excavation of this site will be required.

Sites requiring salvage excavation are listed in Table 6-1.

6.1.6 Aboriginal Heritage Interpretation Plan

Two Heritage Interpretation Plans (HIP) for Aboriginal and Non-Aboriginal heritage will be prepared for the Project on behalf of TfNSW to fulfill the requirements of NSW CoA E27. The Non-Aboriginal HIP is detailed in Section 6.2.2.

The Aboriginal HIP will be prepared by Balarinji Indigenous Design and Strategy on behalf of TfNSW. Consultation will be conducted with the following organisations and agencies:

Aboriginal Cultural Heritage Advisory Committee



- Local Aboriginal Land Council/s
- Fairfield City Council
- Penrith City Council
- Liverpool City Council.

Refer to Section 1.5.2 for more information related to ongoing consultation.

The Aboriginal HIP will include interpretation measures that will improve community awareness of Aboriginal cultural heritage values. This will be an Aboriginal artwork interpretation strategy and plan for Aboriginal cultural heritage sites surrounding the Project. The Aboriginal HIPs will also be provided to WSIA and Sydney Metro Western Sydney Airport to assist in guiding opportunities for integration of heritage values into their Project design.

The design requirements related to the NSW CoA E27 will be implemented in the HIP and the detailed design of the project.

6.2 Non-Aboriginal heritage

6.2.1 Archival photographic recording

A suitably qualified heritage specialist will be engaged to prepare an archival photographic recording of heritage sites in accordance with the *Heritage Information Series: How to prepare archival records of heritage items* (NSW Heritage Office, 1998) and *Photographic Recording of Heritage Items Using Film or Digital Capture* (Heritage Branch, 2006).

Archival recording will be carried out for heritage items in accordance with the Revised Environmental Management Measures prior to commencement of work that may impact on the items. The recording will include both buildings and landscape features such as dams, and earthworks. The recording will include a detailed map showing the location of the features in an Archival Recordings Heritage Report.

Sites requiring archival photographic recording include:

- Item 1: McGarvie Smith Farm (Penrith LEP 857)
- Item 2: The Fleurs Radio Telescope Site (Penrith LEP 832). In accordance with REMM NAH05 (amended) this recording will also include detailed survey drawings, outcomes of remote sensing survey undertaken by GHD (2021) and details of sample cables collected including their original exact location by description, coordinates and mapping. Additional specific requirements relating to Antennas X3 and X4 and associated infrastructure including cabling, hoses and concrete plinths include sampling (cabling and hosing) and protection (concrete plinths). The Construction Contractor is to refer to the specific requirements as detailed within NAH05 (amended) in Appendix B and management measures detailed in Table 6-2, specifically items CH12-CH17a.
- Item 3: Luddenham Road Alignment¹

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¹ An archival photographic recording of Item 3 will only be undertaken if post and/or rail fencing is identified in the construction footprint



- Item 4a: Upper Canal System, Air Shaft 3 (if required by outcomes of additional investigation)
- Item 6: McMaster Field Station
- Item 7: Fleurs Aerodrome in accordance with REMM NAH05 (amended).

6.2.2 Non-Aboriginal Heritage Interpretation Plan

A Non-Aboriginal HIP will be prepared for the Project by Extent Heritage on behalf of TfNSW to fulfil the requirements of NSW CoA E27 as they relate to Non-Aboriginal heritage.

The Non-Aboriginal HIP will include consideration of elements to enable the continued interpretation and understanding of heritage values within the M12 corridor. This will be carried out with the following organisations and agencies:

- Heritage NSW
- Department of Defence
- Veterans Groups where the opportunity exists
- · Fairfield City Council,
- Penrith City Council
- Liverpool City Council.

The Non-Aboriginal HIP will also be provided to WSIA and Sydney Metro Western Sydney Airport to assist in guiding opportunities for integration of heritage values into their Project design.

The Non-Aboriginal HIP will include interpretation measures that will improve community awareness of the history of the Fleurs Radio Telescope and Fleurs Aerodrome as well as determine suitable locations for the presentation of information that are publicly accessible.

The Non-Aboriginal HIP will include consideration of elements to enable the continued interpretation and understanding of the airstrip at Fleurs Aerodrome as a linear and continuous element. This will be carried out in consultation with Department of Defence and consider opportunities for involvement of veteran's groups.

The design requirements related to the NSW CoA E27 will be implemented in the HIP and the detailed design of the project.

6.2.3 Archaeological salvage excavations

Archaeological excavations will be carried out with a suitability qualified archaeologist present to confirm that the significance of artefacts and remains are in line with the findings of the test excavations already completed.

Sites for archaeological salvage excavation include:

Item 8: Cecil Park School, Post Office and Church Site Thematic heritage study

A thematic heritage study of CSIRO and other agricultural research stations, including both McGarvie Smith Farm and McMaster Field Station, and other relevant agricultural research stations and similar facilities located in NSW, has been prepared by Extent Heritage on behalf of TfNSW. The thematic study includes a review of the role of such properties in veterinary research,



association with agricultural, pastoral and animal husbandry groups, use of pioneering methods and practices and contribution to the development of farming in Australia.

6.3 Unexpected Heritage Finds and Human Remains Procedure

An Unexpected Heritage Finds and Human Remains Procedure (Appendix C) will be implemented for the duration of all Works. This procedure will be prepared by a suitably qualified and experienced heritage specialist in accordance with relevant guidelines and standards through consultation with NSW Heritage and the Heritage Council of NSW. The procedure will be submitted to the Planning Secretary for information no later than one month before the commencement of construction.

Note: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.

6.4 Exclusion zones

The Construction Contractor will install exclusion zones and fencing or other means to demarcate heritage items to be retained (including those located outside of the Project boundary) or protected before salvage. These exclusion zones will restrict access by personnel and vehicles into sensitive areas. Exclusion zones will be mapped out by a qualified surveyor in accordance with the Flagging Protocol in the Construction Flora and Fauna Management Plan (CFFMP) and TfNSW G40 specification.

The Construction Contractor will install environmental protection area signage on exclusion zone fencing at regular intervals agreed to by the TfNSW ESM (or delegate). This fencing will be regularly inspected by the Construction Contractor to ensure the fencing has not been damaged, as detailed in Section 7.4. If damaged, the exclusion zone will be rectified immediately. The fencing will only be removed following agreement by the TfNSW ESM (or delegate).

Exclusion zones will be established around key Aboriginal heritage items/areas as detailed in Section 6.1.1, Section 6.1.3, Section 6.1.4 and Section 6.1.5 and for Non-Aboriginal heritage sites including:

- Item 2: Fleurs Radio Telescope site
- Item 4: Upper Canal System (Pheasants Nest Weir to Prospect Reservoir (SHR 01373))
- Item 6: McMaster Field Station
- Item 2: Fleurs Aerodrome.

The Construction Contractor will develop Sensitive Area Maps (Appendix A6 of the OCEMP) which will clearly illustrate the location of exclusion zones. Exclusion zones for Aboriginal heritage areas are mapped in Figure 6-1.

6.4.1 Safe working distances for Potential use zones

A detailed survey will be completed to determine the potential for vibration impacts on, and to define appropriate criteria, for each heritage item. Sensitive items that require survey were identified in the EIS. These include:

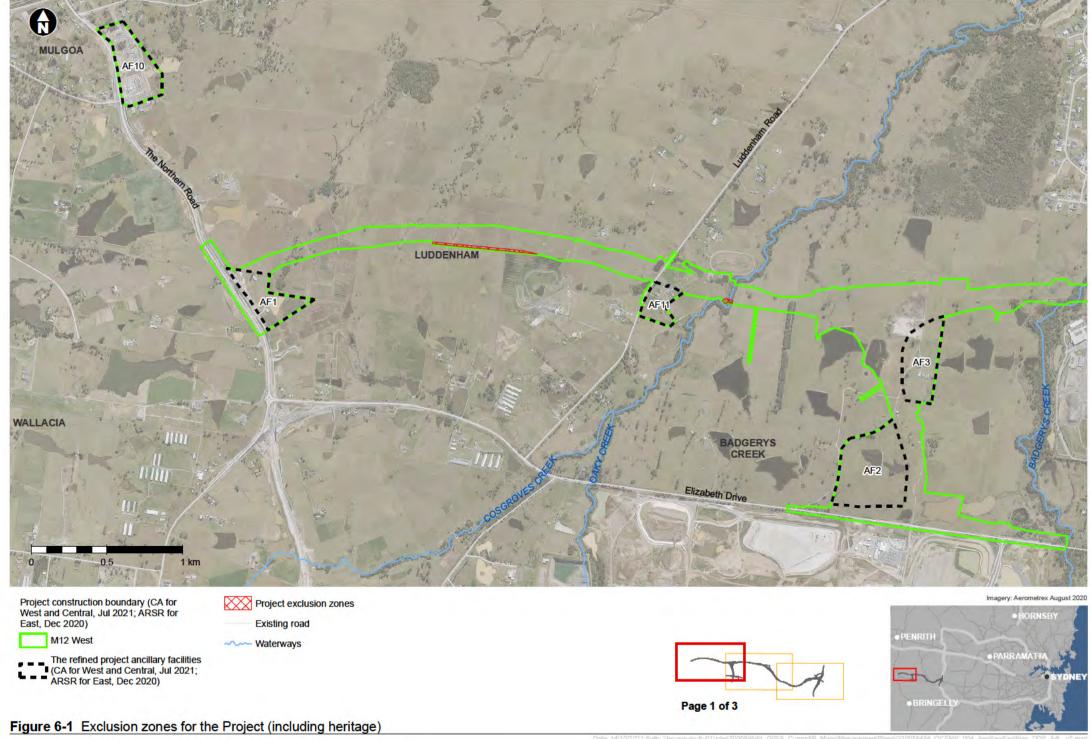
• Item 1: McGarvie Smith Farm



- Item 2: Fleurs Radio Telescope Site
- Item 4: Upper Canal System, including air shaft 4
- Item 4a: Upper Canal System, including air shaft 3 (pending outcomes of investigations)
- Item 6: McMaster Field Station
- Item 7: Fleurs Aerodrome.

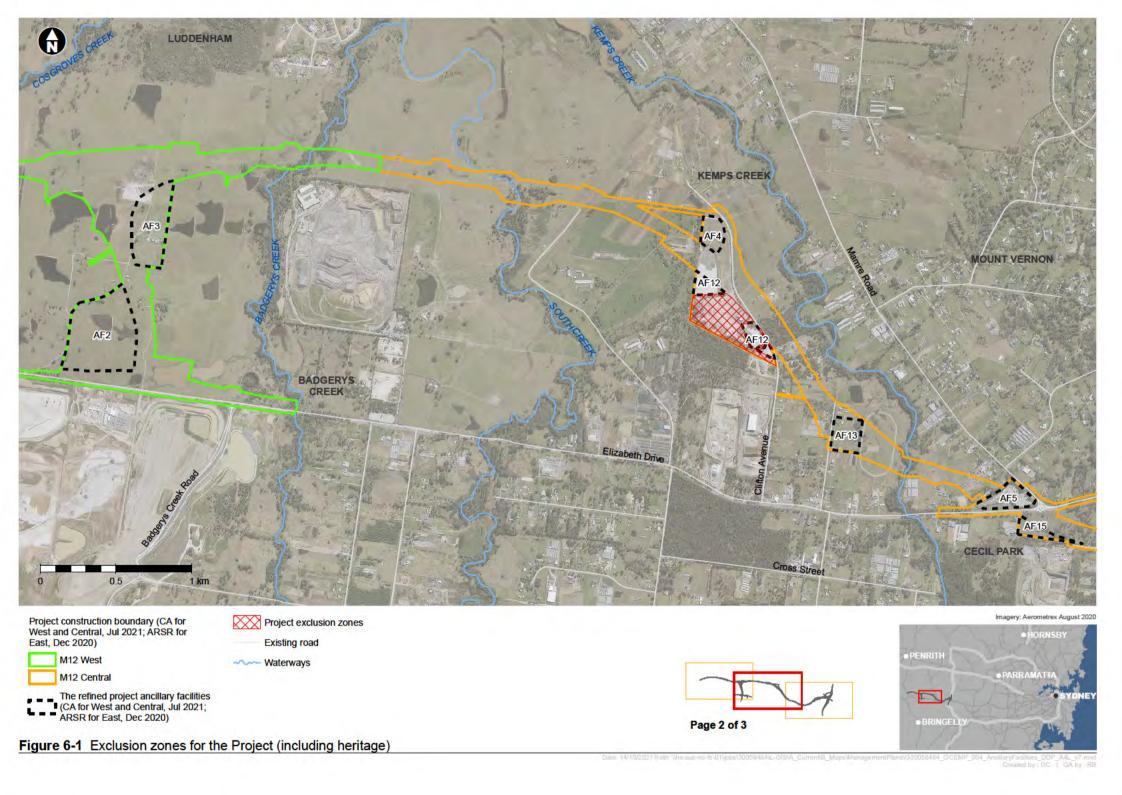
Vibration monitoring will be carried out when vibration intensive tasks are occurring within the minimum working distances to heritage structures.

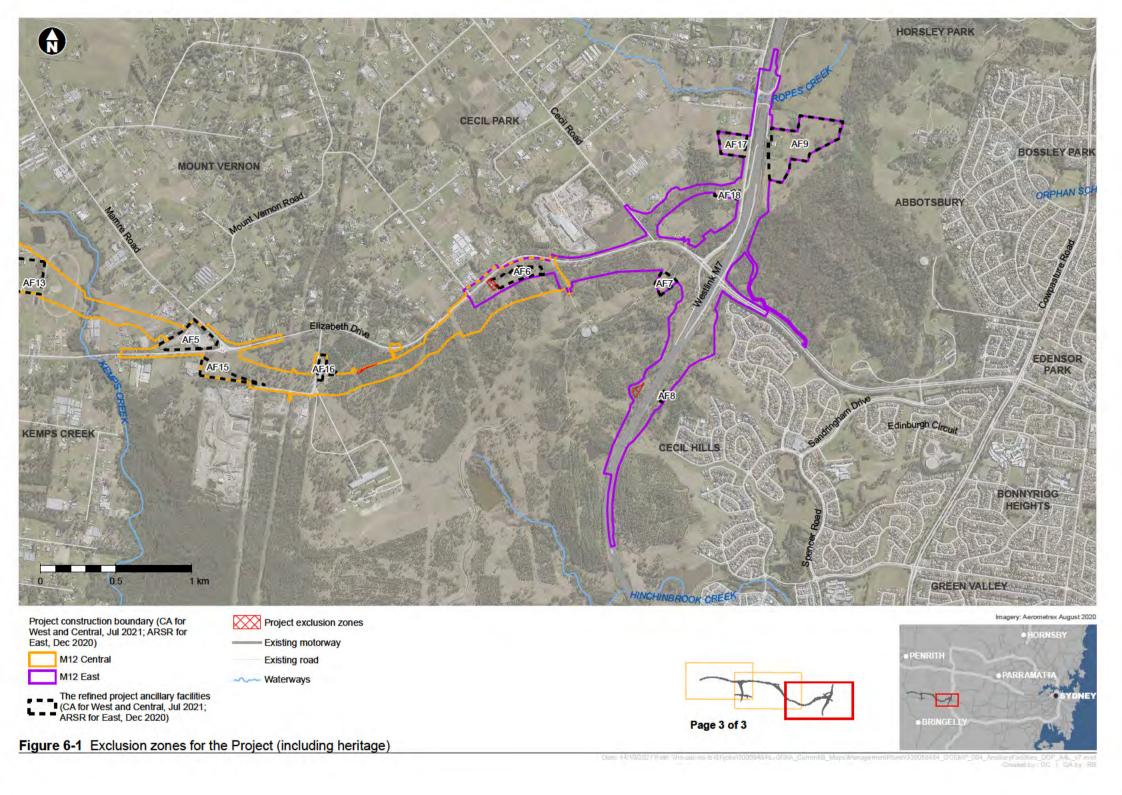
Where the monitoring identifies exceedances in the relevant criteria, or where impacts are identified, additional mitigation measures will be identified and implemented to appropriately manage impacts. These measures may include delineating additional exclusion areas around structures to restrict high-vibration activities occurring too close to sensitive structures.



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6.5 Heritage listed properties

As required by CoA E44, prior to conducting at-property treatment of any heritage item identified in this Plan, TfNSW will be responsible for engaging a suitably qualified built heritage specialist to ensure such Work that will not have an adverse impact on the heritage significance of that item.

6.6 Management Measures

Management actions prescribed by this CCHMP aim to avoid and minimise impacts on Aboriginal and Non-Aboriginal heritage values and are summarised in Table 6-2.



Table 6-2: Management and mitigation measures of relevance to heritage

ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of implementation
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	
General								
CH01.	At least 10 working days prior to commencing Physical Work on Site in or near an environmentally sensitive area (including heritage sites), prepare an EWMS which includes the details of the environmental protection measures to be implemented at that location. Clearly delineate the environmentally sensitive area and signpost the locations and boundaries.	During construction	Construction Contractor	✓	*	¥	TfNSW QA G36	Sensitive Area Plans Site inspection/ photographs
Aborigi	nal cultural heritage				*			
CH02.	A detailed Aboriginal Cultural Salvage Strategy must be prepared in consultation with the RAPs and EESG before any archaeological or cultural salvage is undertaken within the CSSI boundary. All salvage collections and excavations will be carried out by a suitability qualified and experienced Archaeologist using methods determined in consultation with the EESG and Project RAPs.	Prior to construction	TfNSW Archaeologis t	✓	*	1	AH02	Aboriginal Cultural Salvage Strategy



ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH03.	Following completion of all salvage works associated with heritage items, an Aboriginal Cultural Heritage Report must be prepared in accordance with relevant guidelines and in consultation with Project RAPs and EESG. The Report will document all results of the salvage activities including analysis of artefacts from collections and excavations and management of all artefact finds.	Prior to construction	TfNSW Heritage Consultant	*	*	*	AH02	Aboriginal Cultural Heritage Report
CH04.	Impacts on identified Aboriginal cultural heritage sites will be minimised where feasible in consultation with a suitably qualified and experienced archaeologist. Measures considered will include (but not be limited to) focusing protection measures on the zone within 100 metres of creeks and should consider opportunities to cover the original cultural deposits with temporary protective barriers such as geotextile fabric and a layer of clean fill.	Detailed design, prior to construction and during construction	Construction Contractor Archaeologis t	*	*	*	AH03	EWMS Aboriginal Cultural Heritage Report
CH05.	An Unexpected Heritage Finds and Human Remains Procedure (refer to Section 6.3) must be prepared in consultation with Heritage NSW. The Procedure must be submitted to the Planning Secretary, and be implemented for the duration of Work.	Prior to and during construction and operations	Construction Contractor	*	~	*	CoA E31, & E32	Unexpected Heritage Finds and Human Remains Procedure (Appendix C)



ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH06.	Where previously unidentified Aboriginal objects are discovered, all work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects must not recommence until Heritage NSW has been informed. The Unexpected Heritage Finds and Human Remains Procedure must detail the process of measures to process as required by Condition E31 and include registration in the Aboriginal Heritage Information Management System (AHIMS).	Prior to and during construction and operations	Construction Contractor TfNSW	✓	*	*	CoA E33	Unexpected Heritage Finds and Human Remains Procedure (Appendix C)
CH07.	If human remains are found unexpectedly during the carrying out of Work, NSW Police should be notified immediately and the Unexpected Heritage Finds and Human Remains Procedure shall be implemented.	Prior to and during construction and operations	Construction Contractor	4	4	1	CoA E31 & E32	Written correspondence
CH08.	An investigation will be carried out during detailed design to minimise impacts on the CHRP site where feasible.	Detailed design and prior to construction	Construction Contractor	✓	1	*	AH04	Aboriginal Cultural Heritage Report
CH09.	Salvage collection of surface artefacts will be carried out as detailed in Section 6.1.4 and Aboriginal Cultural Salvage Strategy.	Prior to construction	Construction Contractor Archaeologis t	✓	1	✓	AH06	Aboriginal Cultural Heritage Report



ID	Management Measure	When to	Responsibili	Д	pplicability		Reference	Evidence of implementation
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	
CH10.	Salvage excavation will be carried out as detailed in Section 6.1.5 and Aboriginal Cultural Salvage Strategy.	Prior to construction	Construction Contractor Archaeologis t	1	1	1	AH07	Aboriginal Cultural Heritage Report
CH11.	Exclusion fencing shall be implemented for heritage sites occurring within the construction footprint as detailed in Section 6.1.3 and 6.4	Prior to and during construction	Construction Contractor	✓	~	1	AH08	Sensitive Area Plans Site inspection/ photographs
Non-Ab	original heritage						*	
CH12.	Archival photographic recordings will be undertaken for Non-Aboriginal heritage sites/items as detailed in Section 6.2.1. Additionally, photographic archival recordings of remaining above-ground elements of the Fleurs Radio-telescope site will be documented and will be included in the archival recording report as per REMM NAH05 (amended).	Prior to construction	TfNSW Archaeologis t	¥	*	1	NAH04 NAH05 (amended) NAH06 NAH07 NAH08	Report provided by Archaeologist
CH13.	All extant elements of the Fleurs Radio Telescope site (Item 2, Penrith LEP 832) such as telescopes, associated infrastructure and rubbish mounds situated outside the construction footprint will be left intact.	Detailed design and prior to construction	Construction Contractor	1	~	1.3	NAH05 (amended)	Sensitive Area Plans Site inspection/ photographs



ID	Management Measure	When to	Responsibili	Applicability			Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH13a	Exclusion zones around the former location of Antenna X3 and the metal shed at South Creek 3 Antenna Complex will be established prior to the commencement of construction	Prior to ground disturbance at the Fleurs Radio Telescope Site	Construction Contractor Heritage Consultant	FC	*	, = ,c	NAH05 (amended)	Report prepared by Heritage Specialist
CH14.	Ground penetrating radar, or other remote sensing survey techniques, will be carried out under the supervision of a suitably qualified and experienced archaeologist before any ground disturbance within the heritage curtilage of the Fleurs Radio Telescope Site contained within the construction footprint to identify any sub-surface cables. A report will be prepared by the Heritage Consultant to record the outcomes of the remote sensing survey and recommend management measures for any sub-surface cables or structures found during the survey. The Construction Contractor must review the outcomes of the remote sensing survey and undertake the management measures required within the remote sensing report.	Prior to ground disturbance at the Fleurs Radio Telescope Site	Construction Contractor Heritage Consultant	~			NAH05 (amended)	Report prepared by Heritage Specialist
	Additionally, if sub-surface components are unexpectedly identified during ground penetrating radar surveys which have not been identified as part of the Non-Aboriginal Heritage Consistency Assessment, additional assessment and management will be required and undertaken by the Construction Contractor.							



ID	Management Measure	When to	Responsibili	Д	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH15.	Prior to the commencement of construction, TfNSW will consult with relevant interested parties such as CSIRO, Universities, amateur telescopic organisations, local heritage bodies and relevant special interest groups to determine if there is interest in retaining sub-surface cabling or other structures at Fleurs Radio Telescope site in accordance with REMM NAH05 (amended).	Prior to ground disturbance at the Fleurs Radio Telescope Site	TfNSW Environment and Sustainability Manager Construction Contractor	*	*	1-)	NAH05 (amended)	Consultation records
CH16.	The Construction Contractor will be responsible for (with advice from TfNSW Overarching Archival Recording Contractor) the retrieval of samples and the safe storage of samples, of each type of cable / compressed air hose along the cable alignment between antennas X3 and X4 with supervision by a heritage specialist in accordance with requirements listed in NAH05 (amended).	During construction	Construction Contractor Heritage Specialist	*	*		NAH05 (amended)	Report prepared by Heritage Specialist
CH17.	Prior to the commencement of construction, exclusion zones around the concrete plinths located at the South Creek 3 Antenna Complex and South Creek 5 Antenna Complex will be established in accordance with in REMM NAH05 (amended).	Prior to construction	Construction Contractor	V	*	10	NAH05 (amended)	Section 6.4 Sensitive Area Maps



ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH17a	Where retaining concrete plinths <i>in-situ</i> during construction is not practicable, the construction contractor will temporarily remove and store them. Survey will be undertaken providing details of their position and orientation relative to each other. Opportunities for re-establishing the concrete plinths on site close to their original location and/or as part of the interpretative display for the Radio Telescope site will be investigated. If re-established, the survey information collected prior to their removal must be used to ensure that the plinths are located in the same orientation and arrangement.	Prior to construction	Construction Contractor Heritage Consultant	•	*	I -	NAH05 (amended)	Report provided by Heritage Specialist Survey information
	Prior to removal of the concrete plinths, the construction contractor is to determine whether any of the plinths are used as state survey marks. If so, compliance with the preservation of survey infrastructure requirements in TfNSW specification G71 is required. It is noted TS7279 is located on one of the plinths at X3.							
CH18.	A potential use zone will be established around the McMaster Farm group of buildings, including a suitable buffer zone, and no construction activities will take place within this zone. The potential use zone will include safe working distances as outlined in Section 6.4.1.	Prior to construction	Construction Contractor Heritage Consultant	*	-		NAH07	Report provided by Heritage Specialist



ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH19.	Before occupying or utilising heritage buildings for potential use, a dilapidation survey will be carried out and a heritage architect will be engaged to advise on proposed modifications and management measures to avoid and minimise impact on the buildings	Prior to construction	Construction Contractor Archaeologis t	*	*	1	NAH07	Written report
CH20.	Impacts on Non-Aboriginal heritage items will be avoided or minimised where reasonable and feasible. Where impacts are unavoidable, works will be carried out in accordance with the measures for individual Non-Aboriginal heritage items outlined in REMM's NAH04 to NAH11.	Prior to construction and during construction	Construction Contractor	✓	*	1	NAH03	Sensitive Area Plans Site inspection/ photographs
CH21.	A suitably qualified archaeologist will be present during the excavation of the area occupied by the Cecil Park Archaeological site to confirm that the significance of artefacts and remains are in line with the findings of the test excavations already completed (Item 8).	Prior to construction	Construction Contractor Archaeologis t			1	NAH09	Report prepared by Archaeologist
CH22.	The following structures have the potential to be within the safe working distances for sensitive structures (Group 3 from DIN 4150): Item 1: McGarvie Smith Farm Item 2: Fleurs Radio Telescope Site Item 4: Upper Canal System Item 6: McMaster Field Station	Prior to construction and during construction	Construction Contractor Heritage Consultant Noise and Vibration Consultant	√	*	*	NV11	Report prepared by Heritage Specialist



ID	Management Measure	When to	Responsibili	A	pplicability		Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
	Item 7: Fleurs Aerodrome Item 4a: Upper Canal System, air shaft 3 (pending outcomes of investigations). A detailed survey will be completed to determine the potential for vibration impacts and to define appropriate criteria for each heritage item. Vibration monitoring will be carried out when vibration intensive tasks are occurring within the minimum working distances to heritage structures. Where the monitoring identifies exceedances in the relevant criteria, or where impacts are identified, additional mitigation measures will be identified and implemented to appropriately							
CH23.	manage impacts. Post and rail fencing of heritage significance associated with the Luddenham Road alignment within the construction footprint will be avoided. Where avoidance is not practicable, a suitability qualified heritage specialist will be consulted with.	During construction	Construction Contractor Heritage Specialist	✓	*	4	NAH11	Report prepared by Heritage Specialist
CH24.	A suitably qualified archaeologist will be present during the excavation of the area occupied by the Cecil Park Complex to confirm that the significance of artefacts and remains are in line with the initial test excavation.	Prior to construction	Construction Contractor Archaeologis t			✓	NAH05 (amended)	Report prepared by Archaeologist



ID	Management Measure	When to	Responsibili	Applicability			Reference	Evidence of
		implement	ty for implementat ion	M12 West	M12 Central	M12 East	or source	implementation
CH25.	The outcomes of the Upper Canal System Air Shaft 3 (Item 4a) investigation works will be updated in the Stage-Specific CCHMP, if required. The CCHMP will be distributed to all relevant stakeholders for information.	During construction	Construction Contractor	ě	14.	1	Consultatio n correspond ence requirement	Report prepared by Heritage Specialist CCHMP
Cumula	tive Impacts							
CH26.	Consultation will be undertaken with neighbouring land owners and with personnel who will be undertaking work on other projects within the vicinity of the M12 Motorway construction footprint to ensure they are aware of any exclusion zones or sensitive areas identified for the Project.	Prior to construction	Construction Contractor	√	*	*	CoA C5(d)	Written report



7 Compliance management

7.1 Roles and responsibilities

The Project organisational structure and overall roles and environmental responsibilities are outlined in Section 5.1 of the OCEMP. Specific responsibilities for the implementation of heritage management are detailed in Section 6 of this Plan.

All salvage collections and excavations will be carried out by a suitably qualified experienced archaeologist appointed for managing Aboriginal and Non-Aboriginal heritage items. A suitably qualified heritage specialist will also be engaged to prepare an archival photographic recording of impacted Non-Aboriginal heritage sites.

Aboriginal Site Officers (ASO) are the RAPs engaged by TfNSW in accordance with the PACHCI to undertake the excavation and salvage work for the Project. TfNSW engage the ASOs based on a selection process based on the following selection criteria:

- Demonstrated local cultural knowledge
- Previous experience
- Availability
- Capability to undertake tasks.

TfNSW's Aboriginal Cultural Heritage Advisors assist project teams liaise with the RAPs and with the engagement of ASOs for excavation and salvage work.

TfNSW's Senior Environmental Specialist (Heritage) can provide specialist advice if required.

7.2 Training

To ensure that this Plan is effectively implemented, all site personnel (including sub-Construction Contractors) will undergo site induction training relating to heritage management issues before construction commencing. The induction training will address elements related to heritage items and values, including:

- Existence and requirements of this overarching CCHMP, the Construction Contractors CCHMP and all plans and procedures prepared under the CCHMPs
- Relevant legislation, regulations
- Incident response, management and reporting
- Environmentally sensitive locations and exclusion zones
- Site flagging protocol
- Boundaries for land disturbance
- General heritage management measures
- All requirements of Appendices contained within this CCHMP.

Targeted training in the form of toolbox talks or specific training will also be provided to personnel with a key role in environmental management or those undertaking an activity with a high risk of



environmental impact. Site personnel will undergo refresher training at not less than six monthly intervals.

The ER will review and approve the induction and training program prior to the commencement of construction and monitor implementation.

Daily pre-start meetings conducted by the Construction Contractor Foreman/ Site Supervisor will inform the site workforce of any environmental issues relevant to heritage that may be impacted by, or impact on, the day's activities.

Further details regarding staff induction and training are provided in Section 5.3 of the OCEMP.

7.3 TfNSW QA Hold Points

TfNSW specifications set out environmental protection requirements and include Hold Point processes. A Hold Point is a point beyond which a work process must not proceed without express written authorisation from TfNSW. Key Hold Points relevant to this CCHMP are identified in Table 7-1.

Table 7-1: Heritage TfNSW QA Hold Points

Hold Point Clause	Description	Document Reference
TfNSW QA G36 Section 4.13	At least 10 working days prior to commencing Physical Work on Site in or near an environmentally sensitive area, prepare an EWMS which includes the details of the environmental protection measures to be implemented at that location in accordance with G40/E (Flagging Protocol). Clearly delineate the environmentally sensitive area and signpost the locations and boundaries.	Table 6-2 CH01

7.4 Inspections and monitoring

The Construction Contractor will conduct regular inspections of sensitive areas, exclusion zones and activities with the potential to impact Aboriginal and Non-Aboriginal heritage for the duration of the Project. TfNSW will also conduct independent inspections to confirm the Construction Contractors' compliance with heritage management requirements.

Requirements and responsibilities in relation to monitoring and inspections are documented in Section 7.1 and Section 7.2 of the OCEMP.

7.5 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental controls, compliance with this Sub plan, CoA and other relevant approvals, licenses and guidelines.

Audit requirements are detailed in Section 7.4 of the OCEMP.



7.6 Reporting and identified records

Reporting requirements and responsibilities are documented in Section 7.3 of the OCEMP Specific reporting requirements associated with heritage salvage are outlined in Table 7-2.

Table 7-2: Reporting requirements relevant to heritage management

Report	When to implement	Timing of submission to Planning Secretary	Responsibility
Aboriginal Cultural Heritage Report (NSW CoA E29)	Following completion of all salvage works associated with Aboriginal heritage sites	Within 12 months of completing the heritage related work described in the environmental assessment documents.	TfNSW Project Director TfNSW ESM (or delegate) Project Archaeologist through consultation with Project RAPs and Heritage NSW
Archival Recording Heritage Report (NSW CoA E29)	Prior to construction	Within 12 months of completing the heritage related work described in the environmental assessment documents.	TfNSW Project Director TfNSW ESM (or delegate) Suitable qualified heritage specialist
Aboriginal Heritage Interpretation Plan (NSW CoA E27)	Prior to the finalisation of the Place, Design and Landscape Plan	Prior to the finalisation of the Place, Design and Landscape Plan	TfNSW Project Director TfNSW ESM (or delegate) Suitable qualified heritage specialist Detailed designers
Non-Aboriginal Heritage Interpretation Plan (NSW CoA E27)	Prior to the finalisation of the Place, Design and Landscape Plan	Prior to the finalisation of the Place, Design and Landscape Plan	TfNSW Project Director TfNSW ESM (or delegate) Suitable qualified heritage specialist Detailed designers

The Construction Contractor will be required to maintain accurate records substantiating all construction activities associated with the Project or relevant to the CoAs, including measures taken to implement this CCHMP. Records will be made available to the DPIE and Commonwealth



Department of Agriculture, Water and the Environment (DAWE) upon request, within the timeframe nominated in the request.

In addition, key identified records relevant to this CCHMP as specified by TfNSW QA G36 are identified in Table 7-3.

Table 7-3: Identified Records

Identified Records Clause	Description	Document Reference
TfNSW QA G36	Construction Contractors Environmental Management	Table 6-2
Clause 3	Plan (CEMP), Plans and Sub-plans, procedures and EWMS	



8 Review and improvement

8.1 Continuous improvement

Continuous improvement of this Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement. The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- · Identify environmental risks not already included in the risk register
- Determine the cause or causes of non-conformances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any nonconformances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets.

The Construction Contractor will be responsible for ensuring Project environmental risks are identified and included in the risk register and appropriate mitigation measures implemented throughout the construction of the Project as part of the continuous improvement process. The process for ongoing risk identification and management during construction is outlined in Section 4.1 of the OCEMP.

8.2 CCHMP update and amendment

The processes described in Section 7.7 of the OCEMP may result in the need to update or revise this Plan. This will occur as needed.

Any revisions to the CCHMP and other Sub-plans will be in accordance with the process outlined in Section 1.12 and 7.6 of the OCEMP.

The outcome of the investigation works for Item 4a, Upper Canal Air Shaft 3 are pending. The Stage-specific CCHMP will be updated and amended if required by the Construction Contractor. A copy of the updated Plan and changes will be distributed to relevant stakeholders for information.

Appendix A

Consultation Correspondence

M12 Motorway

November 2021



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1 Introduction

As detailed in Section 1.5 of the CCHMP, in accordance with NSW CoA C4(f), consultation has been undertaken with the following government agencies and stakeholders during the preparation of the CCHMP:

- Heritage NSW
- WaterNSW
- Fairfield City Council
- Penrith City Council
- Liverpool City Council.

Additionally, the CCHMP and Unexpected Heritage Finds and Human Remains Procedure was provided to all M12 Registered Aboriginal Parties (RAPs) for review and comment. The Registered Aboriginal Parties (RAPs) that responded included:

- Barraby Cultural Services
- Mura Gadi Heritage Indigenous Corporation
- Kamilaroi-Yankutjatjara Working Group
- Yurrandaali Cultural Services
- Yulay Cultural Services.

A log of the dates of engagement or attempted engagement with the parties identified above has been included in Section 1.5.1 of the CCHMP in accordance with NSW CoA A5(b). Section 2 details the evidence of engagement with each party and responses.



2 Agency and Stakeholder Responses

This section provides consultation documentation undertaken during the consultation period with parties including:

- Engagement with parties identified in NSW CoA C4(c) that occurred prior to the submission of the CNVMP for approval by the Planning Secretary as required by NSW CoA A5(a)
- A copy of the responses provided during consultation with the required parties
- A summary of the issues raised during consultation and how they have been addressed as required by NSW CoA A5(d). A description of the outstanding issues raised during consultation and why they have not been addressed has also been included where required as per NSW CoA A5(e).



2.1 Heritage NSW

This section details the engagement and response from Heritage NSW regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

2.1.1 Evidence of correspondence

Evidence of correspondence between TfNSW and Heritage NSW is provided in this section. It should be noted that Heritage NSW confirmed that they had no comments via phone call as demonstrated in the log of engagement provided in Section 1.5 of the CCHMP.



07/09/2021 Print Preview

Iten	n Document No	Rev	Sts	Title	Contract No	Design Package No
1	M12PPW-TFNSW-ALL-EN- PLN-000015	F.01	S3	M12 Motorway Construction Cultural Heritage Management Plan (Rev F) - draft for consultation review	M12PPW	

Transmitted by: Suzette Graham, Transport for NSW

Attachments:

M12 - Feedback on Document Comments or Responses.xlsx(41KB), M12 - Feedback on Document Comments or Responses.xlsx(41KB)

 From:
 Hendry Wan

 To:
 Suzette Graham

 Cc:
 M12 Detailed Design

Subject: RE: M12 Motorway - Review of Cultural Heritage Management Plan and Heritage Council delegation

Date: Monday, 30 August 2021 7:11:54 AM

Attachments: <u>image001.png</u>

image002.png

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe.

Hi Suzette,

Under the *Heritage Act 1977*, the Heritage Council may delegate their function to the Executive Director or Director, Heritage NSW with respect to SSI/SSD.

Consultation on the Construction Cultural Heritage Management Plan will be delegated to Heritage NSW and the advice letter signed by the Director Operations, Heritage NSW.

Hope this helps.

Hendry

Hendry Wan | Senior Heritage Officer - Major Projects

Heritage NSW, Community Engagement, Department of Premier and Cabinet

Website Facebook Instagram LinkedIn

M T W T F

2 2 2 2 2

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.

Heritage NSW and coronavirus (COVID-19)

Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

PLEASE SUBMIT ALL APPLICATIONS VIA THE HERITAGE MANAGEMENT SYSTEM

The Heritage Management System is live. More information is available here

From: Suzette Graham <Suzette.GRAHAM@transport.nsw.gov.au>

Sent: Friday, 27 August 2021 11:02 AM

To: Hendry Wan

Cc: M12 Detailed Design

Subject: M12 Motorway - Review of Cultural Heritage Management Plan and Heritage Council

delegation

Hi Hendry,

The M12 Motorway has a requirement to consult with the Heritage Council of NSW as well as Heritage NSW on the Construction Cultural Heritage Management Plan under the NSW Planning Approval.

Could you please advise if this type of consultation is a task that the Heritage Council has delegated to Heritage NSW? Or is there a contact at the Heritage Council that we can get in touch with in regard to this?

Thanks for your assistance,

Kind regards,
Suzette Graham
Environment and Sustainability Manager
Sydney Infrastructure Development | Safety, Environment and Regulation

Transport for NSW

27 Argyle Street, Parramatta NSW 2150

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5	

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Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment, Energy and Science.

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2.1.2 How issues raised have been addressed

This section details the engagement and response from Heritage NSW regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-1: Heritage NSW comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
N/A	No comment as confirmed by Heritage NSW	No further comment required.	N/A

2.2 Water NSW

This section details the engagement and response from Water NSW regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

2.2.1 Evidence of correspondence

Evidence of correspondence between TfNSW and Water NSW is provided in this section.

From: <u>Justine Clarke</u>
To: <u>Suzette Graham</u>

Subject: WaterNSW response - M12 CEMP sub plans - Heritage & Noise and vibration

Date: Wednesday, 22 September 2021 12:52:59 PM

Attachments: <u>image001.png</u>

ARK M12 Motorway - Overarching Construction Cultural Heritage Management Plan (Rev F) For Review.msg

ARK M12 Motorway - Consultation on Construction Noise and Vibration Management Plan.msg
M12 - Feedback on Document Comments or Responses - Heritage CEMP - 22.09.21.xlsx
M12 - Feedback on Document Comments or Responses - Noise & Vibration CEMP - 22.09.21.xlsx

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe.

Hi Suzette

Please find attached WaterNSW's comments regarding the 2 CEMP sub plans submitted for WaterNSW comment with regard to the M12 project.

Comments on the CEMP Contamination will be provided by the due date.

If you have any questions please let me know.

Regards Justine

Justine Clarke

Catchment and Asset Protection Adviser

Please note: I am currently working from home. I can be reached via email or 0457 535 955





07/09/2021 Print Preview

Management Plan (Rev F) - draft for consultation review

Transmitted by: Suzette Graham, Transport for NSW

Attachments:

M12 - Feedback on Document Comments or Responses.xlsx(41KB)



2.2.2 Water NSW response

Comments from Water NSW regarding the CCHMP are provided below.

												NSW	Transport for NSW			
DESIGN PACKA	CONTRACT NI	DOCUMENT NO.	TITLE	VE.	STATI	NO .	DATE	COMPAN	RAISED BY	PEVIEW DOC. NO	TO DESIGN	REFERENCE	DEED REF	COMMENTS / RESPONSE	COMMENT CATEGOL	CLOSED OU
	M12PPW	M12PPW-TFNSW-ALL-EN- PLN-000015	M12 Motorway Construction Cultural Heritage Management Plan (Rev F) - draft for consultation review	F.01	\$3		22/09/2021	WaterNSW	Justine Clarke	M12PPW-TFNSW- ALL-EN-PLN-000015	DIGULOF	Appendix C		It is essential that if any heritage relics are found on WaterNSW land, that WaterNSW is notified. Please update Appendix C to relect this.		
														WaterNSW request to see the updated CCHMP once the investigations around the Upper Canel Air Shaft 3 have taken place. There may be actions out of this investigation work that need to be captured in this document. As such WaterNSW should be given the opportunity to ensure that these items are captured accordingly.		
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2.2.3 How issues raised have been addressed

The table below provides a summary of the issues raised by Water NSW regarding the CCHMP during consultation and how they were addressed.

Table 2-2: Water NSW comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
Appendix C	It is essential that if any heritage relics are found on WaterNSW land, that WaterNSW is notified. Please update Appendix C to reflect this.	The Unexpected Finds and Humans Remains Procedure (Appendix C) has been amended Step 3 (Preliminary assessment and recording of the find) to notify Water NSW if a heritage relic is found in proximity to Water NSW Upper Canal.	Appendix C
The CCHMP	WaterNSW request to see the updated CCHMP once the investigations around the Upper Canal Air Shaft 3 have taken place. There may be actions out of this investigation work that need to be captured in this document. As such, WaterNSW should be given the opportunity to ensure that these items are captured accordingly.	Should the outcomes of the investigation work of the Upper Canal Air Shaft 3 (Item 4a) require an update to the CCHMP, the Stage Specific CCHMP will be updated provided to Water NSW for information. It is noted that TfNSW will provide Water NSW with the outcomes of these investigations separately to the updated Stage Specific CCHMP.	Section 1.5.2 Section 6.6 Section 8.2



2.3 Fairfield City Council

This section details the engagement and response from FCC regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

2.3.1 Evidence of correspondence

Evidence of correspondence between FCC and TfNSW is provided below.

From: Kerren Ven

Sent: Wednesday, 22 September 2021 8:45 AM

To: Suzette Graham

Subject: RE: M12 Motorway - Overarching Construction Cultural Heritage Management Plan

(Rev F) For Review

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe.

Hi Suzette.

Please find attached Council's comments in relation to the Construction Cultural Heritage Management Sub Plan.

If you have any questions, please let me know. Thank you.

Kind regards,

Kerren Ven

Strategic Planner | Strategic Land Use Planning City Strategic Planning

www.fairfieldcity.nsw.gov.au mail@fairfieldcity.nsw.gov.au











We acknowledge the Cabrogal of the Darug nation who are the Traditional Custodians of this Land. We also pay our respect to the Elders both past, present and emerging of the Darug Nation.

Help stop











Wash and sanitise hands

From: Suzette Graham via InEight Document [

Sent: Tuesday, 7 September 2021 4:09 PM

To: Kerren Ven

Subject: M12 Motorway - Overarching Construction Cultural Heritage Management Plan (Rev F)

For Review

Document Transmittal



Transmittal No: M12PPW-TFNSW-TX-000427

Date: 07 September 2021 04:08 PM

Reason for Issue: Issued For Review

Subject: M12 Motorway - Overarching Construction Cultural Heritage Management

Plan (Rev F) For Review

Contract No: M12PPW - M12 - Project Wide

Message:

Dear Kerren,

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road.

The M12 Motorway is to be open by 2026 prior to the opening of the Western Sydney International Airport.

An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback.

As required by Condition of Approval (CoA) C4(f) in the M12 Motorway Infrastructure Approval (23 April 2021), TfNSW is required to consult with Fairfield City Council in relation to the following construction environmental management sub-plans:

· Construction Cultural Heritage Management Sub-Plan

Please provide your comments using the attached MS Excel spreadsheet by 22/09/2021.

If you have any questions in relation to this email, please contact me on the details below.

Kind regards,

Suzette Graham
Environment and Sustainability Manager

Sydney Infrastructure Development | Safety, Environment and Regulation

Transport for NSW

27 Argyle Street, Parramatta NSW 2150

I work flexibly. Unless it suits you, I don't expect you to read or respond to my emails outside of your normal work hours.

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Please submit your comments by 22 September 2021

Transmitted to:

Company	Name
Fairfield City Council	Kerren Ven

Transmitted cc:

Company	Name
Transport for NSW	Suzette Graham

Click here to download all Transmittal files.

Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Contract No	Design Package No
1	M12PPW-TFNSW- ALL-EN-PLN-000015	F.01	S3	M12 Motorway Construction Cultural Heritage Management Plan (Rev F) - draft for consultation review	M12PPW	

Transmitted by: Suzette Graham, Transport for NSW

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2.3.2 FCC response

Comments from FCC regarding the CCHMP are provided below.

DESIGN PACKA CONTRA	M12F	PPW-TFNSW-ALL-EN- -000015	M12 Motorway Construction Cultural Heritage Management Plan (Rev F) -	VE -	STATI	NO "	DATE	COMPAN .	RAISED BY	REVIEW DOC. NO.	ALL DUCS RELATED	The second second	electrical -	- Management designs and		Carlotte Barrier
		PPW-TFNSW-ALL-EN- -000015	Cultural Heritage				09.09.2021	Publicular -			TO DESIGN 💂	REFERENCE -	DEED REF	COMMENTS / RESPONSE	COMMENT CATEGOI -	CLOSED ON.
			management Plan (kev F) - draft for consultation review	F.01	S3			Fairfield City Council	Vanessa Holtham (Heritage Advisor)					All contractors on site working on the project should be subject to a theritage induction prepared and presented by the heritage consultant. Whilst the information in the document is very detailed, it is unlikely that every person on the ground will have access to/ read it. It will be those contractors that make 'unexpected finds'. It is important that every person on the job is aware of the significance of some areas.		
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2.3.3 How issues raised have been addressed

The table below provides a summary of the issues raised by FCC during consultation and how they were addressed.

Table 2-3: FCC comments and TfNSW response

Section Reference	Comment	TfNSW Response	Section Amended
The CCHMP	All contractors on site working on the project should be subject to a heritage induction prepared and presented by the heritage consultant. Whilst the information in the document is very detailed, it is unlikely that every person on the ground will have access to/ read it. It will be those contractors that make 'unexpected finds'. It is important that every person on the job is aware of the significance of some areas.	As outlined in Section 3.5, several environmental assessments have been undertaken to ensure heritage items are protected throughout construction. This has been detailed in the Environmental Assessment Documentation. Additional heritage assessments and investigations following exhibition of the EIS and Amendment Report exhibitions have also been undertaken to ensure any potential heritage items are captured prior to Work. Appendix C (Unexpected Heritage Finds and Human Remains Procedure) details the requirement to Stop Work should an unexpected find be uncovered. As outlined in Section 7.2 (Training), the Construction Contractor will ensure all site personnel and sub-contractors will undergo a site induction. This induction will cover any potential heritage impacts associated with the Project. All personnel will be made aware of Aboriginal archaeological sites and areas of cultural sensitivity identified in the Sensitive Area Plans (Appendix A6 of the OCEMP).	Section 7.2 Section 7.3
		As outlined in Section 7.3 (TfNSW Hold Points), an Environmental Work Method Statement (EWMS) will be prepared and conducted at least 10 working days prior to commencing Physical Work on Site in or near an environmentally sensitive area. Onsite signposting will also delineate the environmentally sensitive area locations and boundaries.	
		Targeted training in the form of toolbox talks or specific training will also be provided to personnel with a key role in environmental management or those undertaking an activity with a high risk of environmental impact. Site personnel will undergo refresher training at not less than six monthly intervals.	



2.4 Penrith City Council

This section details the engagement and response from PCC regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

2.4.1 Evidence of correspondence

Evidence of correspondence between PCC and TfNSW is provided below. It should be noted that no response was received from PCC.

 From:
 Suzette Graham

 To:
 Ari Fernando

 Cc:
 M12 Detailed Design

Subject: M12 Motorway Overarching Construction Management Plans

Hi Ari,

Just getting in touch again regarding the following plans that have been sent to Penrith City Council for review and comment in August and September 2021:

- Construction Flora and Fauna Management Plan
- Construction Cultural Heritage Management Plan
- Construction Noise and Vibration Management Plan
- Construction Contaminated Land Management Plan
- M12 Non-Aboriginal heritage interpretation plan

To date TfNSW hasn't received feedback from PCC on these plans.

I wanted to let you know that TfNSW will now be moving onto finalising the plans to address comments received from other stakeholders and they will then be sent to DPIE for approval.

Please feel free to get in touch with me if you wish to discuss.

Thanks,

Kind regards,
Suzette Graham
Environment and Sustainability Manager
Sydney Infrastructure Development | Safety, Environment and Regulation

Transport for NSW

27 Argyle Street, Parramatta NSW 2150

I work flexibly. Unless it suits you, I don't expect you to read or respond to my emails outside of your normal work hours.

OFFICIAL



07/09/2021 Print Preview

	Management Plan (Rev F) - draft for consultation review	
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Transmitted by: Suzette Graham, Transport for NSW

Attachments:

M12 - Feedback on Document Comments or Responses.xlsx(41KB)



2.4.2 How issues raised have been addressed

This section details the response from PCC regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-4: PCC comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
N/A	No comment provided.	No further comment required.	N/A

2.5 Liverpool City Council

This section details the engagement and response from LCC regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

2.5.1 Evidence of correspondence

Evidence of correspondence between LCC and TfNSW is provided below. It should be noted that no response was received from LCC.

From: Suzette Graham

To:

Cc:

Subject: M12 Motorway Interpretation Plan and Construction Environmental Management Plans

Date: Wednesday, 29 September 2021 11:13:00 AM

Hi Charles,

Following our phone call this morning, just confirming that I have re-sent the following M12 Motorway documents to you via Teambinder:

- Non-Aboriginal heritage Management Plan comments were due 3 September 2021
- Construction Cultural Heritage Management Plan comments were due 27 September 2021
- Noise and Vibration Management Plan comments were due 23 September 2021
- Contaminated Land Management Plan- Comments were due 22 September 2021
- Flora and Fauna Management Plan Comments were due 22 September 2021

Can you please advise if Council wish to make comments on these documents, and if so when comments can be expected?

Thomas – I have copied you in as an FYI as I know we sent the Interpretation plan to you as well.

Thanks,

Kind regards, Suzette Graham **Environment and Sustainability Manager** Sydney Infrastructure Development | Safety, Environment and Regulation

Transport for NSW

27 Argyle Street, Parramatta NSW 2150

I work flexibly. Unless it suits you, I don't expect you to read or respond to my emails outside of your normal work hours.

OFFICIAL

From: <u>Suzette Graham via InEight Document</u>

To: <u>Suzette Graham</u>

Subject: Resending - M12 Motorway - Overarching Construction Cultural Heritage Management Plan (Rev F) For Review

Date: Wednesday, 29 September 2021 10:46:42 AM

Attachments: <u>ATT00001.jpg</u>

M12 - Feedback on Document Comments or Responses.xlsx

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Document Transmittal



Transmittal No: M12PPW-TFNSW-TX-000430

Date: 07 September 2021 04:31 PM

Reason for Issue: Issued For Review

Subject: M12 Motorway - Overarching Construction Cultural Heritage Management

Plan (Rev F) For Review

Contract No: M12PPW - M12 - Project Wide

Message:
Dear Charles,

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road.

The M12 Motorway is to be open by 2026 prior to the opening of the Western Sydney International Airport.

An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback.

As required by Condition of Approval (CoA) C4(f) in the M12 Motorway Infrastructure Approval (23 April 2021), TfNSW is required to consult with Liverpool City Council in relation to the following construction environmental management sub-plans:

• Construction Cultural Heritage Management Sub-Plan

Please provide your comments using the attached MS Excel spreadsheet by 22/09/2021.

If you have any questions in relation to this email, please contact me on the details below.

Kind regards,

Suzette Graham

Environment and Sustainability Manager

Sydney Infrastructure Development | Safety, Environment and Regulation

Transport for NSW

27 Argyle Street, Parramatta NSW 2150

OFFICIAL

Please submit your comments by 22 September 2021

Transmitted to:

Company	Name

Liverpool City Council	Charles Wiafe
------------------------	---------------

Transmitted cc:

Company	Name
Transport for NSW	Suzette Graham

Click here to download all Transmittal files.

Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Contract No	Design Package No
1	M12PPW-TFNSW- ALL-EN-PLN-000015	F.01	S3	M12 Motorway Construction Cultural Heritage Management Plan (Rev F) - draft for consultation review	M12PPW	

Transmitted by: Suzette Graham, Transport for NSW

TeamBinder Transmittal Reference: {2132520A-9345-4D3F-A790-DCDEE974840B}



07/09/2021 Print Preview

		Management Plan (Rev F) - draft for consultation review			
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Transmitted by: Suzette Graham, Transport for NSW

Attachments:

M12 - Feedback on Document Comments or Responses.xlsx(41KB)



2.5.2 How issues raised have been addressed

This section details the response from LCC regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-5: LCC comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
N/A	No response	No further comment required.	N/A

Registered Aboriginal Parties

2.6 Barraby Cultural Services

2.6.1 Evidence of correspondence

Evidence of correspondence between Barraby Cultural Services and TfNSW is provided below.

From: M12 Motorway

To: <u>Suzette Graham; Christopher Mcbride</u>

Subject: FW: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Date: Monday, 13 September 2021 3:09:24 PM

FYI

From: Lee Field

Sent: Monday, 13 September 2021 12:45 PM

To: M12 Motorway

Subject: Re: Seeking your feedback on the M12 Overarching Construction Cultural Heritage

Management Plan

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Good afternoon,

Barraby Cultural Services has reviewed and supports the CHMP and we have no further comments to add.

Kind regards Lee Field BCS

On 9 Sep 2021, at 9:18 am, M12 Motorway

<

Good morning

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road. The M12 Motorway is scheduled for completion prior to the opening of the Western Sydney International Airport. An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback. As a Registered Aboriginal Party for the project, TfNSW is seeking your feedback on the **Overarching Construction Cultural Heritage Management Plan (CCHMP)** for the project. Please find the document attached.

Please provide your comments using the attached MS Excel spreadsheet by Thursday 23 September 2021 (also attached).

If you have any questions in relation to this email, please contact Suzette Graham, Environment and Sustainability Manager on

or Christopher McBride, Aboriginal Cultural

Heritage Officer

Kind regards

The M12 Motorway Project Team Western Sydney Program Office Transport for NSW Greater Sydney Division M 1800 517 155

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<M12 Overarching CCHMP - Feedback spreadsheet.xlsx><M12PPW-ADAP-ALL-EN-PLN-000039_F_S3_CCHMP_Rev_F_clean_complied.pdf>



2.6.2 How issues have been addressed

This section details the engagement and response from Barraby Cultural Services regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-6: Barraby Cultural Services and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
The CCHMP	Barraby Cultural Services has reviewed and supports the CCHMP and we have no further comments to add.	TfNSW acknowledges the support for the Project. No further action required.	N/A



2.8 Mura Gadi Heritage Indigenous Corporation

2.8.1 Evidence of correspondence

Evidence of correspondence between Mura Gadi Heritage Indigenous Corporation and TfNSW is provided below.

From: Suzette Graham; Christopher Mcbride To: Subject: FW: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan Date: Wednesday, 15 September 2021 2:22:39 PM FYI **From:** jesse johnson Sent: Wednesday, 15 September 2021 1:35 PM **To:** M12 Motorway Subject: Re: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan **CAUTION**: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe. Ηi I have read the project information on the overarching constructional management plan, I agree with the recommendations made. Kind regards Jesse Johnson On Thursday, 9 September 2021, 09:19:04 am AEST, M12 Motorway wrote: Good morning As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road. The M12 Motorway is scheduled for completion prior to the opening of the Western Sydney International Airport. An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback. As a Registered Aboriginal Party for the project, TfNSW is seeking your feedback on the Overarching Construction Cultural Heritage Management Plan (CCHMP) for the project. Please find the document attached. Please provide your comments using the attached MS Excel spreadsheet by Thursday 23 September 2021 (also attached).

If you have any questions in relation to this email, please contact Suzette Graham, Environment and Sustainability Manager on or Christopher McBride, Aboriginal Cultural Heritage Officer

Kind regards

Western Sydney Program Office

Transport for NSW

Greater Sydney Division

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2.8.2 How issues have been addressed

This section details the response from Mura Gadi Heritage Indigenous Corporation regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-7:Mura Gadi Heritage Indigenous Corporation comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
The CCHMP	I have read the project information on the overarching constructional management plan, I agree with the recommendations made.	TfNSW acknowledges the support for the Project. No further action required.	N/A

2.9 Kamilaroi-Yankutjatjara Working Group

2.9.1 Evidence of correspondence

Evidence of correspondence between Kamilaroi-Yankutjatjara Working Group and TfNSW is provided below.

From: M12 Motorway

To: <u>Suzette Graham; Christopher Mcbride</u>

Subject: FW: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Date: Thursday, 30 September 2021 4:40:26 PM

Attachments: Outlook-qxrnvu0g.png

3225DC2CD18C4CFAB68C5626893214B9.png

FYI

From: Philip khan

Sent: Thursday, 30 September 2021 2:36 PM

To: M12 Motorway

Subject: Re: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe

Dear Suzette and Christopher,

Thank you for your CCHMP for M12 Overarching Construction Cultural Heritage Management Plan. Here at KYWG we hold 50 years of cultural knowledge of the area. We hold a deep connection to Mother Earth, the sky, and our water ways. Aboriginal people have a spiritual connection to the land, it holds stories, history. It is for this reason we must not destroy the land or pollute it as it will become sick and so will we. Mother Earth gives to us and in return we care for her. KYWG aim to protect and conserve our sacred sites especially our burial sites and the tangible and intangible. The study area is highly significant to us Aboriginal people. The shelter itself has importance to us. the intangible aspects like being connected to land is of importance as we hold a spiritual connection to the land. The site is close to water ways that are utilised by aboriginal people.

We as Aboriginal people have an obligation to the land, to care for it to protect our sites. It is crucial that stories about place are recorded and considered when dealing with land.

Has the proponent sort a cultural interpretation for the project to recognise Aboriginal people as the owners of the land? Ways in which this can be archived is through design, art, digital displays, apps, native gardens, and native landscaping. It is important to incorporate interpretation into you project as it educates the wider community and our next generations about the traditional owners of the land. A keeping place should also be sort to keep artefacts on country.

We would like to agree with your CCHMP and we support your report, we look forward to working along side you further on this project.

Kind Regards



From: M12 Motorway <

Sent: Thursday, 9 September 2021 9:18 AM

To: M12 Motorway

Cc: Suzette Graham < Christopher Mcbride

Subject: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Good morning

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road. The M12 Motorway is scheduled for completion prior to the opening of the Western Sydney International Airport. An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback. As a Registered Aboriginal Party for the project, TfNSW is seeking your feedback on the Overarching Construction Cultural Heritage Management Plan (CCHMP) for the project. Please find the document attached.

Please provide your comments using the attached MS Excel spreadsheet by Thursday 23 September 2021 (also attached).

If you have any questions in relation to this email, please contact Suzette Graham, Environment and Sustainability Manager on or Christopher McBride, Aboriginal Cultural Heritage Officer

Kind regards

The M12 Motorway Project Team Western Sydney Program Office Transport for NSW Greater Sydney Division M 1800 517 155

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2.9.2 How issues have been addressed

This section details the response from Kamilaroi-Yankutjatjara Working Group regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-8: Kamilaroi-Yankutjatjara Working Group comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
Section 6.1.6	Has the proponent sought a cultural interpretation for the project to recognise Aboriginal people as the owners of the land? Ways in which this can be archived is through design, art, digital displays, apps, native gardens, and native landscaping. It is important to incorporate interpretation into you project as it educates the wider community and our next generations about the traditional owners of the land. A keeping place should also be sought to keep artefacts on country. We would like to agree with your CCHMP and we support your report, we look forward to working along side you further on this project.	Section 6.1.6 details that an Aboriginal Heritage Interpretation Plan (HIP) will be prepared for the Project on behalf of TfNSW to fulfil the requirements of NSW CoA E27. The Aboriginal HIP will be prepared by Balarinji Indigenous Design and Strategy on behalf of TfNSW. The Aboriginal HIP will include interpretation measures that will improve community awareness of Aboriginal cultural heritage values including implementation of an Aboriginal Artwork Strategy. The HIPs will also be provided to WSIA and Sydney Metro Western Sydney Airport to assist in guiding opportunities for integration of heritage values into their Project design. Additionally, the outcomes of the HIPs will be included in the Place, Design and Landscape Plan (PDLP) which will be publicly exhibited in November 2021 for comment.	N/A

2.10 Yurrandaali Cultural Services

2.10.1 Evidence of correspondence

Evidence of correspondence between Yurrandaali Cultural Services and TfNSW is provided below.

From: Bo Field
To: M12 Motorway

Cc: Suzette Graham; Christopher Mcbride

Subject: Re: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Date: Monday, 13 September 2021 12:31:29 PM

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Good afternoon,

Yurrandaali has reviewed and approves of the CHMP for M12 Project. We would also like an update on when the salvage excavations will be commencing as we would like the opportunity to participate with the excavations and we have already submitted our site officer applications.

Regards,

Во

Yurrandaali Pty Ltd

From: M12 Motorway

Sent: Thursday, 9 September 2021 9:18 AM

To: M12 Motorway <

Christopher Mcbride

Subject: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Good morning

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road. The M12 Motorway is scheduled for completion prior to the opening of the Western Sydney International Airport. An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback. As a Registered Aboriginal Party for the project, TfNSW is seeking your feedback on the **Overarching Construction Cultural Heritage Management Plan (CCHMP)** for the project. Please find the document attached.

Please provide your comments using the attached MS Excel spreadsheet by Thursday 23 September 2021 (also attached).

If you have any questions in relation to this email, please contact Suzette Graham, Environment and Sustainability Manager or or Christopher McBride, Aboriginal Cultural Heritage Officer

Kind regards

The M12 Motorway Project Team Western Sydney Program Office

Transport for NSW Greater Sydney Division M 1800 517 155

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2.10.2 How issues have been addressed

This section details the response from Yurrandaali Cultural Services regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-9: Yurrandaali Cultural Services comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
The CCHMP	We would like an update on when the salvage excavations will be commencing as we would like the opportunity to participate with the excavations and we have already submitted our site officer applications.	As detailed in Section 6.1.5 and Section 6.6, salvage excavation will be undertaken by a suitably qualified archaeologist and nominated site officers from relevant RAPs as determined in consultation with the EESG and Project RAPs. TfNSW will contact the RAPs listed in consultation (Section 1.5.2) to give the party the opportunity to participate in salvage excavations. The results of the salvage excavation will be documented in an Aboriginal Cultural Heritage Report which will be issued to the RAPs for information.	N/A

2.11 Yulay Cultural Services

2.11.1 Evidence of correspondence

Evidence of correspondence between Yulay Cultural Services and TfNSW is provided below.

From: M12 Motorway

To: Suzette Graham; Christopher Mcbride

Subject: FW: Seeking your feedback on the M12 Overarching Construction Cultural Heritage Management Plan

Date: Friday, 24 September 2021 11:11:36 AM

FYI

From: Arika J [mailto

Sent: Friday, 24 September 2021 10:04 AM

To: M12 Motorway <

Subject: Re: Seeking your feedback on the M12 Overarching Construction Cultural Heritage

Management Plan

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Good morning,

Yulay Cultural service's has reviewed and supports the CHMP and we have no further comments.

Kind regards,

Arika Jalomaki

Manager

On Thu, 9 Sep 2021 at 9:19 am, M12 Motorway wrote:

Good morning

As you are aware, Transport for NSW (TfNSW) is delivering the M12 Motorway Project between the M7 Motorway and The Northern Road. The M12 Motorway is scheduled for completion prior to the opening of the Western Sydney International Airport. An overarching Construction Environmental Management Plan has been drafted and is ready for stakeholder feedback. As a Registered Aboriginal Party for the project, TfNSW is seeking your feedback on the **Overarching Construction Cultural Heritage Management Plan (CCHMP)** for the project. Please find the document attached.

Please provide your comments using the attached MS Excel spreadsheet by Thursday 23 September 2021 (also attached).

If you have any questions in relation to this email, please contact Suzette Graham, Environment and Sustainability Manager on or Christopher McBride, Aboriginal Cultural Heritage Officer

Kind regards

The M12 Motorway Project Team

Western Sydney Program Office

Transport for NSW

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Arika Jalomaki



2.11.2 How issues have been addressed

This section details the engagement and response from Yulay Cultural Services regarding the CCHMP prior to submission for approval and a summary of how the issues have been addressed.

Table 2-10: Yulay Cultural Services comments and TfNSW response

Section of comment	Comments	TfNSW Response	Section Amended
The CCHMP	Yulay Cultural Services has reviewed and supports the CCHMP and we have no further comments.	TfNSW acknowledges the support for the Project. No further action required.	N/A



Appendix B

Secondary CoA and REMMs

November 2021

Transport for New South Wales



Appendix B Secondary CoA and REMMs

CoA

CoA	Condition Requirements		Applicabili	ty	Document
No.		M12 West	M12 Central	M12 East	Reference
A7	References in the terms of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this approval.	1	1	1	Section 3.1.2
C5	The CEMP Sub-plans must state how:				
	(a) The environmental performance outcomes identified in the documents listed in Condition A1 will be achieved;	V	1	✓	Section 8
	(b) The mitigation measures identified in the documents listed in Condition A1 will be implemented;	1	1	1	Section 6
	(c) The relevant terms of this approval will be complied with; and	1	~	1	Section 3.2
	(d) Issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART (Specific, Measurable, Achievable, Realistic and Timely) principles.	1	1	√	Section 6
C9	Any of the CEMP Sub-plans may be submitted to the Planning Secretary for approval along with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before the commencement of construction.	1	~	✓	Section 1.4.1
C10	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary, unless otherwise agreed by the Planning Secretary. The CEMP and CEMP Sub-plans, as approved by the Planning Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where construction of the CSSI is	ū	1	1	Section 1.4.1



CoA	Condition Requirements		Applicabili	ty	Document
No.		M12 West	M12 Central	M12 East	Reference
	staged, construction of a stage must not commence until the CEMP and sub-plans for that stage have been endorsed by the ER and approved by the Planning Secretary.				
E25	Construction and operation of the CSSI should aim to not diminish the potential of the following heritage items for nomination to the State Heritage Register beyond the impacts to significance already identified in the documents listed in Condition A1: McGarvie Smith Farm, McMaster Field Station and Fleurs Radio Telescope Site.	1	1	1	Section 6.2
E26	An experienced and qualified heritage specialist(s) must prepare and/or endorse the:	1	1	1	Section 6.1 Section 6.2
	(a) Heritage Interpretation Plan required by Condition E27				
	(b) Archival photographic digital recording required by Condition E28; and				
	(c) Heritage Report required by Condition E29.				
E27	A Heritage Interpretation Plan must be prepared that identifies and interprets the key heritage values and stories of the heritage items impacted by the CSSI. The Heritage Interpretation Plan must include but not be limited to:	1	*	*	Section 6.1.6 Section 6.2.2 Section 7.6
	(a) Integration of heritage themes and values in the design of the CSSI; design elements (form and fabric) and themes for the CSSI;	1	1	1	
	(b) Design elements (form and fabric) and themes for the CSSI;	✓	1	1	
	(c) Consideration of the design concepts for Western Sydney International Airport and Sydney Metro Western Sydney Airport	1	1	1	
	(d) Opportunities for design responses for Aboriginal and non-Aboriginal heritage.	✓	1	1	



CoA	Condition Requirements		Applicabili	ty	Document Reference
No.		M12 West	M12 Central	M12 East	
	The Heritage Interpretation Plan must be provided to Western Sydney International Airport and Sydney Metro Western Sydney Airport to assist in guiding opportunities for integration of heritage themes and values into their design.	*	1	*	
	The Heritage Interpretation Plan must be prepared in accordance with the <i>Interpreting Heritage Places and Items: Guidelines</i> (NSW Heritage Office, 2005), and in consultation with Heritage NSW, Aboriginal Cultural Heritage Advisory Committee, LALC and relevant council(s).	*	~	1	
	The Plan must be implemented and inform the Place, Design and Landscape Plan required by Condition E69.	1	1	1	
	The Heritage Interpretation Plan must be submitted to the Planning Secretary and Heritage NSW for information prior to finalising the Place, Design and Landscape Plan required by Condition E69. Note: Nothing in this condition prevents the Proponent from preparing separate Heritage Interpretation Plans for Aboriginal and Non-Aboriginal Heritage.	√	*	~	
E28	Archival photographic digital recording must be undertaken as outlined in the documents listed in Condition A1 for all listed heritage items and for all sites assessed to have heritage significance which will be affected by the CSSI. The recordings must be undertaken prior to the commencement of Work which may impact the items. The recordings must include buildings, structures and landscape features and detailed maps showing the location of features. The archival recording must be prepared in accordance with <i>How to Prepare Archival Records of Heritage Items</i> (NSW Heritage Office, 1998) and <i>Photographic Recording of Heritage Items Using Film or Digital Capture</i> (NSW Heritage Office, 2006).	*	~	•	Section 6.2.1
E29	Following completion of all Work described in the documents listed in Condition A1 in relation to heritage items, a Heritage Report including the details of archival recordings, further historical research either undertaken or to be carried out and archaeological excavation (with artefact analysis	ü	1	1	Section 6.1.4 Section 6.1.5 Section 6.2.1



CoA	Condition Requirements		Applicabili	ty	Document
No.		M12 West	M12 Central	M12 East	Reference
	and identification of a final repository for finds), must be prepared in accordance with any guidelines and standards required by the Heritage Council of NSW and Heritage NSW. Note: Nothing in this condition prevents the Proponent from preparing separate Heritage Reports for Aboriginal and Non-Aboriginal Heritage.				Aboriginal Cultural Heritage Strategy
E30	The Heritage Report must be submitted to the Planning Secretary and Heritage NSW for information within 12 months of completing all Work described in the documents listed in Condition A1 in relation to heritage items. Copies of the Heritage Report must also be provided to relevant local libraries and relevant local historical societies.	*	*	*	Section 6.1.4 Section 6.1.5 Section 6.2.1 Aboriginal Cultural Salvage Strategy
E31	An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by the Heritage Council of NSW or Heritage NSW. The Procedure must be prepared in consultation with heritage NSW and form part of the Heritage CEMP Sub-plan required by Condition C4.	*	1	1	Section 6.3 Appendix C CH05
E32	The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of Work. Note: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.	4	1	1	Section 6.3 Appendix C CH06 CH07
E33	Where previously unidentified Aboriginal objects are discovered, all work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects must not recommence until Heritage NSW has been informed. The measures to consider and manage this process must be specified in the Unexpected Heritage Finds and Human Remains Procedure required by Condition E31 and include registration in the Aboriginal Heritage Information Management System (AHIMS).	1	1	1	Section 6.3 Appendix C CH07



CoA	Condition Requirements		Applicabili	ty	Document
No.		M12 West	M12 Central	M12 East	Reference
E42	The Proponent must conduct vibration testing during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. In addition, vibration monitoring must be undertaken during construction for relevant remaining Fleurs Radio Telescope structures, the Upper Canal (in consultation with WaterNSW) and McMaster Farm and McGarvie-Smith Farm group of remaining buildings. In the event that the vibration testing and attended monitoring shows that the preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional mitigation measures.	~		~	CNVMP
E43	Advice from a heritage specialist must be sought on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures.	1	✓	V	CNVMP
E44	Before conducting at-property treatment at any heritage item identified in the documents listed in Condition A1, the advice of a suitably qualified and experienced built heritage specialist must be obtained and implemented to ensure such work does not have an adverse impact on the heritage significance of the item.	1	*	*	Section 6.1 Section 6.2 Section 7.4
E45	All Work undertaken for the delivery of the CSSI, including that undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. The Proponent must:	1	1	1	CNVMP
	(a) Reschedule any work to provide respite to impacted noise sensitive land user(s) so that the respite is achieved in accordance with Condition E47; or	1	1	1	
	(b) Where respite outlined in Condition E47 cannot be achieved, consider the provision of alternative respite or mitigation to impacted noise sensitive land user(s); and	1	1	1	
	(c) Provide documentary evidence to the ER in support of any decision made by the Proponent in relation to respite or mitigation.	√	1	1	



CoA	Condition Requirements		Applicabili	ty	Document
No.		M12 West	M12 Central	M12 East	Reference
	The consideration of respite must also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of the CSSI.	1	1	1	
E76	The Proponent must offer pre-construction surveys to the owners of surface and sub-surface structures and other relevant assets identified at risk from vibration, including all listed heritage items and buildings/structures of heritage significance as identified in the documents listed in Condition A1. Where the offer is accepted, the survey must be undertaken by a suitably qualified and experienced engineer and/or building surveyor prior to the commencement of vibration- generating works that could impact on the structure/asset. The results of each survey must be documented in a Preconstruction Condition Survey Report and the report must be provided to the owner of the item(s) surveyed no later than one (1) month before the commencement of all other potentially impacting works	*	~	*	CNVMP
E81	The Proponent must have regard to the Upper Canal Pheasants Nest to Prospect Reservoir Conservation Management Plan (NSW Public Works Governments Architect's Office, 2016) and Guidelines for development adjacent to the Upper Canal and Warragamba Pipelines (WaterNSW, 2020) when constructing the CSSI.	1	~	✓	Section 4.2 Section 6.2
E82	Construction and operation of the CSSI must not destroy, modify or otherwise cause direct or indirect damage to the Upper Canal System, including the Cecil Hills Tunnel, and Tunnel Shafts 3 and 4.	1	1	1	Section 4.2 Section 6.2



REMMs

ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
Aboriginal H	leritage					
Impacts on A	boriginal heritage during construction					
AH03	Impacts on identified Aboriginal sites will be minimised where feasible in consultation with a suitably qualified and experienced archaeologist. Measures considered will include (but not be limited to):	Detailed design, prior to construction	1	1	✓	Table 6-1 CH01 CH04
	 Designing and locating bridges (including bridge pylons), haulage routes and other access roads to minimise potential disturbance of soils where feasible 	and during construction				Section 6.1.1
	 Focusing protection measures on the zone within 100 metres of creeks including consideration of opportunities to cover the original cultural deposits in temporary protective barriers such as geotextile fabric and a layer of clean fill. 					
Impacts on id	dentified cultural deposits					
AH05	Investigations will be carried out during detailed design to determine the feasibility of retaining cultural deposits between the pylons of bridges or elevated structures at the following sites:	Prior to construction	1.50	1	1	Section 6.1.4 Aboriginal Cultural Salvage
	BCW					Strategy CH08
	BCE					
	• SCW T1					
	• SCW T2					
	SCE.					



ID	Measure/requirement	Timing		Applicabil	ity	Document
			M12 West	M12 Central	M12 East	Reference
	This will include covering the original cultural deposits beneath temporary protective barriers where feasible such as geotextile fabric and a layer of clean fill material.					
AH06	Salvage collection of surface artefacts will be carried out at the following sites: BCE SCW T2 KCW PCP8 CHRP RR M12A1 Isolated artefact 4 TNR-AFT-14.	Prior to construction	· ·	*	✓	Section 6.1.4 Aboriginal Cultural Heritage Strategy CH09
AH07	Salvage excavation will be carried out at the following sites: CCW BWB BCW SCW T1 SCW T2 KCW	Prior to construction	1	¥	✓	Section 6.1.5 Aboriginal Cultural Heritage Strategy CH10



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	CHRP. The methodology and extent of excavations required for the above sites will be in accordance with site specific requirements outlined in the ACHAR prepared for the project.					
AH08	Exclusion zones will be set up in the form of an appropriate barrier / fencing along the portion of AHIMS site 45-5-2721 (PAD-OS-7) that extends into the construction footprint, with visible signage notifying construction personnel to avoid ground impacts	Prior to construction and during construction	2		1	Section 6.1.3 Section 6.4 CH11
AH09	Archaeological text excavation will be carried out at PAD-OS-7 in the instance that construction restrictions result in impacts to that site. Test excavations will be conducted in accordance with Requirement 16a of the Code of Practice (DECCW 2010) Stage 2 PACHCI (Roads and Maritime 2011) and in consultation with RAPs.	Prior to construction	4) = "	✓	Section 6.1.5 Aboriginal Cultural Salvage Strategy
Non-Aborigin	al heritage					*
General						
NAH03	Impacts on Non-Aboriginal heritage items will be avoided or minimised where reasonable and feasible. Where impacts are unavoidable, works will be carried out in accordance with the measures for individual Non-Aboriginal heritage items outlined in measures NAH04 to NAH12.	Detailed design, prior to construction and during construction	~	V	·	CH20



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
Item 1: McGarvie Sr	nith Farm (PLEP 857)					
NAH04	A suitably qualified heritage consultant will be engaged to prepare an archival photographic recording of the site in accordance with the Heritage Information Series How to prepare archival records of heritage items (NSW Heritage Office, 1998). This will include both buildings and landscape features such as dams, and earthworks. The recording will include a detailed map showing the location of the features.	Detailed design and prior to construction	✓	✓		Section 6.2.1 CH12
	Options will be investigated to provide funding support to the property's current owner to prepare a thematic heritage study of CSIRO and other agricultural research stations, including both McGarvie Smith Farm and McMaster Field Station, and other relevant agricultural research stations and similar facilities located in NSW. The thematic study will include a review of the role of such properties in veterinary research, association with agricultural, pastoral and animal husbandry groups, use of pioneering methods and practices and contribution to the development of farming in Australia. In the event that landowners do not prepare this study, TfNSW will engage a heritage specialist to do so.	Detailed design and prior to construction	✓	*		Section 6.2.1
Item 2: The Fleurs F	Radio Telescope Site (PLEP 832)					
NAH05 (amended)	All extant elements of the radio telescopes and associated infrastructure, including rubbish mounds situated outside the construction footprint will be left intact	Detailed design and prior to construction	1	1		CH13



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	 Ground penetrating radar, or other remote sensing survey techniques, will be carried out under the supervision of a suitably qualified and experienced archaeologist before any ground disturbance within the heritage curtilage of the Fleurs Radio Telescope Site contained within the construction footprint to identify any sub-surface cables: 		1	*	-	CH14
	o If additional sub-surface Fleurs Synthesis Telescope (FST) components are unexpectedly identified during ground penetrating radar survey which have not been discussed as part of the consistency assessment, then additional assessment and management would be required. This would include, but may not be limited to, archival survey and recording		~	1	•	
	Measures will be included in the CCHMP to describe how the heritage values of the site will be conserved and managed during construction		1	1	, G-53	Section 6.2
	TfNSW will engage a suitably qualified heritage consultant to prepare an archival photographic recording of the impacted areas of the property, in accordance with Heritage NSW guidelines (Heritage Council of NSW 2006). The archival recording report will include but not be limited to:		V	1	30	Section 6.2.1 CH12
	Detailed survey drawings and photographic archival recording of remaining above-ground elements of the Fleurs Radio-telescope site. This survey will detail the exact location and orientation of remnant fabric within the landscape, including fabric associated with the former location of FST antenna X3 and antenna X4, the concrete pad between antennas X3 and X4, and the former vehicle access track Survey drawings will be included in the archival recording report	Detailed design and prior to construction	9	*		Section 6.2.1 CH12 CH14



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	 Outcomes of the remote sensing survey undertaken by GHD in 2021 to provide a comprehensive record of the site (or as comprehensive as possible prior to excavation) 			V	-	
	 Details of sample cables collected including original exact location by description, co-ordinates, and mapping. 		-	1	-	
	Prior to construction TfNSW will consult with relevant interested organisations (such as CSIRO, Universities, amateur telescopic organisations, local heritage bodies and other special interest groups) to determine if there is interest in retaining sub-surface cabling (including details on the type and length cabling to be retained) or other structures identified during archival recording, remote sensing or any unexpected additional cables found during construction.	Prior to construction	¥	¥		Section 1.5.2 CH15
	The M12 West and M12 Central Contractor will (with advice from TfNSW Overarching Archival Recording Contractor) be responsible for the following:	Prior to construction and during	1	1	•	Section 6.2.1 CH16
	Retrieval of a sample of each type of cable / compressed air hose along the cable alignment between antennas X3 and X4 with supervision by a heritage specialist. This will include retrieval of 1-2m (or a length directed by TfNSW following consultation with stakeholders) of each type of cable / compressed air hose including the relevant attachment. The selection of the types and length of cables / hose to be collected will include consideration of the following:	construction	1	*	2.	
	 Physical review of the cables / hose types visible at South Creek 3 Antenna Complex, South Creek 4 Complex, and South Creek 5 Antenna Complex 		1	1	-	



D	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	 Any additional information identified through remote sensing survey of the cable alignment 		1	1	1-1	
	 Discussion with archival recording or other relevant heritage specialists where required 		1	1	-	
	 Outcomes from the consultation undertaken by TfNSW with interested parties 		1	1	-	
	 Cable samples will be collected, with consideration given to potentially contaminated materials, such as asbestos and PCBs. Appropriate WHS measures will be implemented in accordance with the Contractor's WHS Plan 		1	1	-	
	 Cable samples will be tagged, including exact location by description and relevant coordinates of the cabling prior to its extraction 		1	4	-	
	 Safe storage of cable samples until collection by interested parties. If samples are unclaimed by interested parties within three months, they will be appropriately disposed of at a licensed landfill by the contractor 		1	1	-	
	Where cabling is not impacted by construction works, it can remain insitu, otherwise the contractor is responsible for appropriate disposal.		1	1	-	
	Oncrete plinths: Prior to construction, the contractor must establish an exclusion zone around the concrete plinths at South Creek 3 Antenna Complex	Prior to construction	1	1	-	Section 6.4



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	(Central) and South Creek 5 Antenna Complex (West) to protect against inadvertent impacts during construction.					CH17 and CH17a
	 If leaving the plinths in situ during construction is not practicable, they will be removed and stored temporarily with survey information providing details of their position relative to each other and orientation. The Contractor will then investigate opportunities for re-establishing the concrete plinths on site close to their original location and/or as part of the interpretative display for the Radio Telescope site. If re-established, the survey information collected prior to their removal must be used to ensure that the plinths are located in the same orientation and arrangement. 		¥	*	•	
	 Prior to removal of the concrete plinths, the Construction Contractor is to identify whether any of the plinths are used as state survey marks. The contractor must comply with the preservation of survey infrastructure requirements in TfNSW specification G71. It is noted TS7279 is located on one of the plinths at X3. 		·	V	-	
	Measures for M12 Central only: Prior to construction the contractor must establish an exclusion zone around the former location of antenna X3 at South Creek 3 Antenna Complex to protect against inadvertent impacts during construction.	Prior to construction	3	✓	-	Section 6.4 CH13a
	 Prior to construction the contractor must establish an exclusion zone around the metal shed at South Creek 3 Antenna Complex to protect against inadvertent impacts during construction. 			1		
	The heritage interpretation framework for the project (NAH02) will include interpretation measures that will improve community	Detailed Design	-	1		Section 6.2.2



ID	Measure/requirement	Timing		Document		
			M12 West	M12 Central	M12 East	Reference
	awareness of the history of the Fleurs Radio Telescope as well as determine suitable locations for the presentation of information that are publicly accessible.					
Item 3: Ludder	nham Road Alignment					
NAH11	Where post and rail fencing of heritage significance is identified within the construction footprint, TfNSW will seek to avoid directly impacting such features. Where avoidance is not practicable, Transport for NSW will seek to minimise and mitigate impact in consultation with a suitably qualified heritage specialist.	Detailed design, prior to construction and during construction	4	4		CH20



ID	Measure/requirement	Timing	Applicability			Document				
			M12 West	M12 Central	M12 East	Reference				
Item 4: Upper	Canal System (Pheasants Nest Weir to Prospect Reservoir (SHR 01373))									
NAH06	Relevant conservation policies outlined in the Upper Canal CMP (NSW Public Works Government Architect's Office, 2016) will be considered during detailed design and incorporated into CCHMP to ensure heritage fabric is not impacted by the project.		rê L		*	Section 6.4				
	The CCHMP will be consistent with and require implementation of relevant measures outlined in the Guidelines for development adjacent to the Upper Canal and Warragamba Pipelines (WaterNSW 2020) which sets out guidelines for designing, planning or assessing development on land adjacent to the canal at this location. Additional structures identified in the construction footprint will be investigated and measures implemented to avoid or minimise impacts.			•	✓					
	Guidelines and associated safe working distances to be adhered to for heritage structures as outlined in Appendix K of the EIS		1.5		1					
	A safe working distance exclusion zone will be established around the exposed tunnel air shaft in the M7 Motorway median in accordance with the process outlined in noise and vibration management measures NV–9 - NV10.						7.4		1	
	Transport for NSW will provide an updated report to WaterNSW on project design changes as they relate to the WaterNSW Upper Canal corridor during detailed design.			-	1					



D	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
Item 6: McMas	ster Field Station					
NAH07	A suitably qualified heritage consultant will be engaged to prepare an archival photographic recording of the impacted area, in accordance with DPC (Heritage) guidelines (Heritage Council of NSW 2006) (Heritage Council of NSW 2006). This will include both buildings and landscape features such as dams, and earthworks. The recording will include a detailed map showing the location of the features.	Detailed design, prior to construction and during construction	V	√	-	Section 6.2.1
	Options will be investigated to provide funding support to property's current owner to prepare a thematic heritage study of CSIRO and other agricultural research stations, including both McMaster Field Station and McGarvie Smith Farm, and other relevant agricultural research stations and similar facilities located in NSW. The thematic study will include a review of the role of such properties in veterinary research, association with agricultural, pastoral and animal husbandry groups, use of pioneering methods and practices and contribution to development of farming in NSW and Australia. In the event that landowners do not prepare this study, TfNSW will engage a heritage specialist to do so.	Prior to construction	*	✓	•	Section 0
	A potential use zone will be established around the McMaster Farm group of buildings, including a suitable buffer zone, and no construction activities will take place within this zone. This zone will be incorporated into the construction heritage management plan (CHMP). The potential use zone will include safe working distances to be adhered to for heritage structures as outlined in Appendix K. Before occupying or utilising the buildings, a dilapidation survey will be carried out and a heritage architect will be engaged to advise on proposed modifications.		√	✓		Section 6.4.1 CH18 and CH19



ID	Measure/requirement	Timing		Applicabil	Document	
			M12 West	M12 Central	M12 East	Reference
	and management measures to avoid and minimise impact on the buildings.					
Item 7: Fleurs	Aerodrome					
NAH08	A suitably qualified heritage consultant will be engaged to prepare an archival photographic recording of the impacted area before its disturbance and/or removal, in accordance with DPC (Heritage) guidelines (Heritage Council of NSW 2006). The recording will include a detailed map showing the location of the features.	Detailed design, prior to construction	T	*	-	Section 6.2.1
	An interpretive framework developed for the project will include consideration of elements to enable the continued interpretation and understanding of the airstrip at Fleurs Aerodrome as a linear and continuous element. This will be carried out in consultation with Department of Defence and consider opportunities for involvement of veteran's groups.	Detailed Design	•	✓	-	Section 6.2.2
	Relevant guidelines and associated safe working distances will be adhered to for remaining heritage structures as outlined in the Appendix K of the EIS	Detailed design, prior to construction and during construction	200	*	-	Section 6.4
Item 8: Cecil I	Park School, Post Office and Church Site					
NAH09	 A suitably qualified Archaeologist will be present during the excavation of the area occupied by the Cecil Park Archaeological site to confirm that the significance of artefacts and remains are in line with the 	Prior to construction	Y	1	*	CH18 Section 6.2.3 Aboriginal



ID	Measure/requirement	Timing	Applicability			Document
			M12 West	M12 Central	M12 East	Reference
	findings of the test excavations already completed. If remains with the potential to be considered 'relics' (as defined in the Heritage Act 1977) are found, the works will stop, and the unexpected find procedure (RMS, 2015) will be followed.					Cultural Salvage Strategy
Item 12: South	n, Kemps and Badgerys Creek Confluence Weirs Scenic Landscape					
NAH10	Management measures identified in the project UDLP (LVIA01) will be implemented during detailed design to minimise impacts on landscape and vistas	Detailed design, prior to	Teo	1	-7	Addressed in UDLP
	Flooding management measures (F01 to F08) and surface water quality and hydrology management measures (SWH01 to SWH13) will be implemented to reduce broader impacts on the surrounding scenic landscape	construction and during construction		1	-	CSWMP Flood Management Plan
Vibration impa	acts on heritage structures			+		
NV11	The following structures have the potential to be within the safe working distances for sensitive structures (Group 3 from DIN 4150): Item 1: McGarvie Smith Farm Item 2: Fleurs Radio Telescope Site Item 4: Upper Canal System Item 6: McMaster Field Station Item 7: Fleurs Aerodrome Item 4a: Upper Canal System, including air shaft 3. A detailed survey will be completed to determine the potential for vibration impacts and to define appropriate criteria for each heritage item. Vibration	Prior to construction and during construction	✓	*	*	CH22 CH23



ID	Measure/requirement	Timing	3	Document		
			M12 West	M12 Central	M12 East	Reference
	monitoring will be carried out when vibration intensive tasks are occurring within the minimum working distances to heritage structures. Where the monitoring identifies exceedances in the relevant criteria, or where impacts are identified, additional mitigation measures will be identified and implemented to appropriately manage impacts.					



TfNSW QA Specification G36

Section	Measure/requirement	Timing	Арр	olicability		ССНМР
			M12 West	M12 Central	M12 East	Reference
4.13	The Principal has identified the following environmentally sensitive areas:					
4.13	(c) Aboriginal heritage sites; and	Pre- construction	*	*	*	Section 5.2 Figure 4-1: Location of Aboriginal heritage sites and items
	(d) Non-Aboriginal heritage sites.	Pre- construction	1	*	V	Section 5.3 Figure 4-2: Location of Non-Aboriginal heritage sites and items
	Clearly show all identified environmentally sensitive areas and sensitive places on Sensitive Area Maps, submitted as part of the CEMP. Prepare environmentally Sensitive Area Maps using a high resolution aerial imagery and include all WUC, station markers at minimum of 500 metre intervals, a north point, a scale bar and be prepared at a scale of 1:5000, unless otherwise agreed by the Principal. The Sensitive Area Maps must clearly show vegetation clearing limits (refer to Specification TfNSW G40), exclusion / no-go zones, all locations of known threatened flora and fauna species, and ecological communities, Aboriginal heritage sites, non-Aboriginal heritage sites, weed infestations, and trees which have been	Pre- construction Construction	✓	*	~	Section 6.4 Appendix A6 of the OCEMP



ction	Measure/requirement	Timing	Арр		ССНМР	
			M12 West	M12 Central	M12 East	Reference
	marked or otherwise identified through your own Site investigations as well as extracted from details included in the Environment Assessment documents listed in Annexure G36/A3, for preservation. Review and update regularly the Sensitive Area Maps to include environmentally sensitive areas identified during the Work Under the Contract. Make the Sensitive Area Maps available to all personnel working on the Site.					
	Prepare and include in the CEMP an EWMS for working in or near the environmentally sensitive areas. Include in the EWMS environmental protection measures that are effective for minimising the risk of impacting the environmentally sensitive areas. Review these measures regularly to ensure that they are effective.	Pre- construction Construction	·	1	V	Section 1.4 CH04
	At least 10 working days prior to commencing Physical Work on Site in or near an environmentally sensitive area, prepare an EWMS which includes the details of the environmental protection measures to be implemented at that location. Clearly delineate the environmentally sensitive area and signpost the locations and boundaries in accordance with Specification TfNSW G40, Appendix G40/E Flagging Protocol.	Construction	~	*	1	CH01
	As part of the environmental induction (refer Clause 3.5) to your staff and sub- contractors working on the Site, provide an understanding of the risks associated with working in or near environmentally sensitive areas, and training on implementing the relevant environmental protection measures.	Construction	~	1	V	Section 7.2
	Clearly delineate and signpost the locations and boundaries of all environmentally sensitive areas on Site.	Construction	✓	V	✓	Section 6.4 CH11



Appendix C

Unexpected Heritage Finds and Human Remains Procedure

November 2021

Transport for New South Wales



Appendix C Unexpected Heritage Finds and Human Remains **Procedure**

The Unexpected Heritage Items Procedure (Roads and Maritime, 2015) was developed to provide a consistent method for managing unexpected heritage items (both Aboriginal and non-Aboriginal) that are discovered during TfNSW activities. The Procedure includes TfNSWs heritage notification obligations under the *Heritage Act 1977* (NSW), *National Parks and Wildlife Act 1974* (NSW), *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (Cth) and the *Coroner's Act 2009* (NSW).

The discovery of an 'unexpected heritage item' may include:

- Aboriginal objects
- · Historic (non-Aboriginal) heritage items
- Human skeletal remains

The following guidelines and policies were referenced during the drafting of the Procedure:

- Assessing heritage significance (NSW Heritage Office, 2001)
- Photographic recording of heritage items using film or digital capture (NSW Heritage Office, 2006)
- Skeletal remains: Guidelines for management of human skeletal remains (NSW Heritage Office, 1988)
- Due diligence code of practice for the protection of Aboriginal objects in NSW (OEH, 2010)
- Aboriginal cultural heritage consultation requirement for proponents (OEH, 2010)
- Code of practice for the archaeological investigation of Aboriginal objects in NSW (OEH, 2010)
- Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH, 2011)

The Procedure was prepared by two suitably qualified and experienced heritage specialists:

- Gretta Logue, former Environment Officer (Heritage) with Roads and Maritime Services.
 Gretta has a B.Sc. Hons (Archaeology), M.Sc. Hons (Forensic Anthropology, PG Diploma (Environment Law) and at the time of preparation of the procedure had 10 years professional heritage experience
- Daniel Percival, Environment Officer (Heritage) with Roads and Maritime Services. Daniel
 has a BA Hons (Archaeology) (First Class) with over 10 years professional heritage
 experience

The Procedure was prepared in consultation with the Heritage Council of NSW and Heritage NSW as part of the CCHMP for consultation purposes, as required by NSW CoA E31, E32 and E33. During the consultation process, the Heritage Council of NSW and OEH indicated their support for the Procedure as being appropriate to manage the discovery of unexpected heritage items during Construction of the Project (refer Annexure A of this CCHMP). The Procedure includes the



requirement that consultation with Registered Aboriginal Parties will be undertaken in the event that previously unidentified Aboriginal heritage is discovered.

Attachment 1 to this Unexpected Heritage Items Procedure contains additional information that describes the process to be followed in the event that suspected human remains are discovered during construction.

Attachment 2 is the procedure for handling Aboriginal human remains in accordance with NSW-CoA outlines the procedure for handling Aboriginal human remains in accordance with NSW CoA E31, E32 and E33.



Attachment 1 Unexpected Aboriginal and Non-Aboriginal heritage finds procedure

The following procedure has been prepared to accompany the CCHMP. This section outlines the tasks that will be carried out following the discovery of an unexpected heritage item. Figure D-1 outlines the procedure in summary.

This procedure has been prepared in based on the content and processes outlined in the *Unexpected Heritage Items: Heritage Procedure 02* (RMS, 2015) and has been updated to be specific to construction. The RMS procedure was prepared by suitably qualified professionals in consultation with Heritage NSW.

In accordance with the *Unexpected Heritage Items Procedure* (RMS, 2015), different procedures will be put in place dependent on the items classification. The Unexpected Heritage finds procedure identifies three types of heritage items listed and classified as follows:

- 1. Relic: Evidence of past human activity which has local or state heritage significance. It may include items such as bottles, utensils, remnants of clothing, crockery, personal effects, tools, machinery and domestic or industrial refuse
- 2. Aboriginal object: May include a shell midden, stone tools, bones, rock art or a scarred tree
- 3. Work: A building or standing structure. This may include tram tracks, kerbing, historic road pavement, fences, sheds or building foundations.

Step 1. Stop work, protect item, and inform Environmental Site Representative

If an unexpected heritage item is encountered during excavation/construction activities:

- Stop all work in the immediate area of the item and notify the Project Manager or Environmental Site Representative (or delegate)
- The Project Manager or site supervisor will be responsible for establishing a 'no-go zone' around the item, using high visibility fencing where practicable
- The item will be inspected, documented and photographed using 'Unexpected Heritage Item Recording Form 418'
- The Project Manager or Environmental Site Representative will engage a suitably qualified heritage specialist to identify whether the item is likely a 'relic', 'Aboriginal object' or 'work'.
 If the item is determined to be a 'work', and it is possible to continue works without causing further disturbance, works will continue, and the completed Form 418 will be submitted to the relevant TfNSW Staff within 24 hours
- TfNSW Environment and Sustainability Manager will advise Project Manager whether
 TfNSW has an approval or safeguard in place (apart from this procedure) to impact on the
 item. If yes, work will recommence in accordance with the approval, permit or appropriate
 safeguard and no further action will be required
- The Project Manager or Site Supervisor will liaise with Traffic Management Centre where the delay is likely to affect traffic flow

Item will be reported as a 'Reportable Event' in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure.



Step 2. Contact and engage and archaeologist and, where required, an Aboriginal site officer

- A suitably qualified and experienced archaeological consultant will be engaged to assess the find
- Where the item is likely to be an Aboriginal object, an Aboriginal Site Officer (ASO) will also be engaged to assess the find
- The archaeological consultant (and ASO, if relevant) will be provided with the photographs.

Step 3. Preliminary assessment and recording of the find

- Should the archaeologist (and ASO, if relevant) determine from the photographs that no site inspection is required because no archaeological constraint exists, such advice will be provided in writing and confirmed by the Project Manager or Site Supervisor
- Site access will be arranged for the archaeologist (and ASO, if relevant) to inspect the item as soon as practicable
- Subject to the archaeologist assessment (and ASO's assessment, if relevant), work will recommence at a set distance from the item
- Should the archaeologist (and ASO, if relevant) provide advice after the site inspection and preliminary assessment that no archaeological constraint exists, such advice should be provided in writing and confirmed by the Project Manager or Site Supervisor
- Should it be required, additional specialist technical advice will be organised

Should the item be identified as a relic, heritage item or an Aboriginal object the archaeologist will formally record them.

- Heritage NSW could be notified informally by telephone at this stage by the archaeologist or project manager. Any verbal conversations with Heritage NSW will be noted on project file for future reference
- If a relic, heritage item or Aboriginal object has been identified, the archaeologist will notify:
 - Heritage NSW (and formally register the site on the Aboriginal Heritage Information Management System (AHIMS) as required) and
 - Water NSW if a relic found is in proximity to Water NSW Upper Canal.

Step 4. Prepare an archaeological or heritage management plan

- An archaeological or heritage management will need to be prepared in the event of unexpected Aboriginal or non-Aboriginal heritage find
- Registered Aboriginal Parties will be consulted in the event of an unexpected Aboriginal heritage find
- The archaeological consultant will prepare an archaeological or heritage management plan (with input from the ASO and RAPs, where relevant) with consideration to the any heritage sub-plans, any conditions of heritage approvals, Minister's Conditions of Approval, and heritage assessment documentation
- The archaeologist will submit this plan as a letter, brief report or email to the Project Manager or Site Supervisor outlining all relevant archaeological or heritage issues



• The Project Manager or Site Supervisor will review the archaeological or heritage management plan.

Step 5. Notify Regulator (if required)

- The archaeological or heritage management plan will be reviewed to confirm if Heritage NSW notification is required
- If yes, a notification letter will be prepared
- The draft notification letter, archaeological or heritage plan and the site recording form will then be sent to TfNSW Environment and Sustainability Manager for review and amended where appropriate
- The signed notification letter, archaeological or heritage management plan and site recording form will be submitted to Heritage NSW, DPIE
- A copy of the final signed notification letter, archaeological or heritage management plan and the site recording form will be kept on file by the Project Manager or Site Supervisor and a copy sent to the TfNSW Environment and Sustainability Manager.

Step 6. Implement archaeological or heritage management plan

- The archaeological or heritage management plan will be modified to take into account any additional advice resulting from notification and discussions with Heritage NSW
- The archaeological or heritage management plan will be implemented. Where impact is
 expected, this will include such things as a formal assessment of significance and heritage
 impact assessment, preparation of excavation or recording methodologies, consultation
 with registered Aboriginal parties, obtaining heritage approvals etc, if required
- Where heritage approval is required, the Environmental Site Representative will be contacted for further advice and support material
- It will then be assessed whether heritage impact is consistent with the project approval
- Where statutory approval is not required and where recording is recommended by the archaeologist, sufficient will be allowed for this to occur.

Step 7. Review CCHMP, OCEMP and CoA

- The CCHMP will be updated as appropriate with any changes resulting from final heritage management (e.g. retention of heritage item, salvage of item). The updated CCHMP will incorporate additional conditions arising from any heritage approvals, and Aboriginal community consultation if relevant
- Any changes to the CCHMP will be included in site induction material site workers will be updated during toolbox talks
- Where statutory approval is not required and where recording is recommended by the archaeologist, sufficient time will be allowed for this to occur.



Step 8. Resume work

- The Construction Contractor will seek written clearance to resume project work from TfNSW Environment and Sustainability Manager and the archaeologist (and Heritage NSW)
- Archaeological excavation/heritage reporting and other heritage approval conditions will be completed in the required timeframes. This includes artefact retention repositories, conservation and/or disposal strategies.

All heritage/archaeological assessments, heritage location data and its ownership status will be forwarded to the TfNSW Environment and Sustainability Manager. They will ensure all heritage items in TfNSW ownership and/or control are considered for the Roads and Maritime S170 Heritage and Conservation Register.

On discovering something that could be an unexpected heritage item ('the item'), the following procedure (Figure D-1) must be followed.



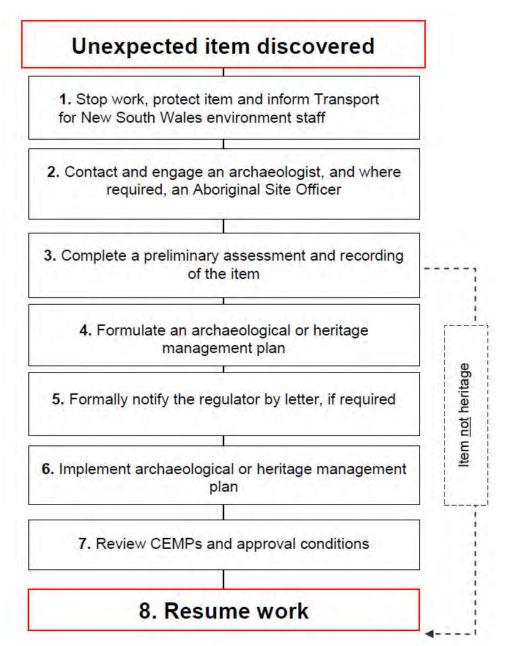


Figure D-1: Overview of steps to be undertaken on the discovery of an unexpected heritage item.



Attachment 2 Unexpected Human Remains Procedure

This attachment outlines the procedure for handling Aboriginal human remains in accordance with NSW-CoA, the *Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the Heritage Act 1977* (NSW Heritage Office 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS 1997).

If construction activity reveals possible Aboriginal human skeletal material (remains), the following procedure is to be followed:

- 1. Identify whether the remains are animal bones, ceramics or material before proceeding with this Procedure.
- 2. As soon as remains are exposed, immediately halt all work at that location and immediately notify the TfNSW Environment and Sustainability Manager (or delegate) or Construction Contractor Project Manager on site to allow assessment and management
- 3. Secure the site
- 4. Contact police as the discovery of human remains triggers a process which assumes that they are associated with a crime. The NSW Police will retain carriage of the process until such time as the remains are confirmed to be Aboriginal or historic. If the remains are identified as being non-human, skip to Step 8.
- 5. Notify DPIE, as the approval authority, when human remains are found
- 6. Once the police process is complete and if remains are not associated with a contemporary crime contact DPIE. DPIE will determine the process, in consultation with Heritage NSW and/or the Heritage Office as appropriate
- 7. If the remains are identified as Aboriginal, secure the site and DPIE and notify all RAPs or Aboriginal stakeholders in writing. DPIE will act in consultation with Heritage NSW as appropriate. Notify Heritage NSW in writing according to DPIE instructions. Work may not recommence until Heritage NSW have been notified.
- 8. If the remains are identified as Non-Aboriginal (historical) remains, secure the site and contact the DPIE. DPIE will act in consultation with the Heritage Division as appropriate. Notify the Heritage Division in writing according to DP&E instructions.
- 9. Once the police process is complete and if the remains are identified as not being human and the appropriate clearances have been given, work can recommence.