



# **Western Sydney Airport**

**European and Other Heritage  
Construction Environmental Management Plan**

**July 2022**



## Document Control

File Name	Document Name	Revision
WSA00-WSA-00400-EN-PLN-000008	WSA European and Other Heritage CEMP	4

### Revision History

Revision	Date	Description	Author	Reviewer
0	24/09/2018	Approved for Early Earthworks	WSA	S Reynolds
1	14/12/2018	Revision update to include Experience Centre and Site Office phase and Material Importation phase	WSA	S Reynolds
2	18/12/2019	Approved for Bulk Earthworks	WSA	S Reynolds
3	26/10/2021	Approved for Terminal Works and SM, M12 and utilities works on WSA land.	WSA	L Laughton
4	28/07/2022	Updated to reflect Commonwealth and stakeholder comments. Approve for Use	WSA	L Laughton

### Plan Authorisation

Position	Name	Signature	Date
Environment Manager	L Laughton		28/07/2022

## Terms and Definitions

Item	Definition
<b>ABC</b>	Airport Building Controller
<b>ABC Regulations</b>	<i>Airports (Building Control) Regulations 1996</i> (Cth)
<b>ACP</b>	Airside Civil and Pavements
<b>AEO</b>	Airport Environment Officer (person appointed under the AEPR 2.01)
<b>AEPR</b>	<i>Airports (Environment Protection) Regulations 1997</i> (Cth)
<b>AHD</b>	Australian Height Datum
<b>Airport</b>	Western Sydney International (Nancy-Bird Walton) Airport (WSI). NB: The Airport is referred to in the Airports Act as Sydney West Airport and is also commonly known as Western Sydney Airport
<b>Airport Lease</b>	A lease for the Airport granted under section 13 of the Airports Act
<b>Airport Plan</b>	Means the Airport Plan for the Airport Site as determined by the Infrastructure Minister under section 96B of the Airports Act. The latest Airport Plan was determined in September 2021 and authorises Rail Development on the Airport Site.
<b>Airport Site</b>	The site for Sydney West Airport as defined by the Airports Act
<b>Airports Act (or 'the Act')</b>	<i>Airports Act 1996</i> (Cth)
<b>ALC</b>	Airport Lessee Company (the Company granted a lease over the Airport Site)
<b>Ancillary Development</b>	An 'ancillary development' as set out in section 96L of the Airports Act
<b>Approved Plan</b>	A Plan approved in accordance with the Airport Plan Conditions of Approval
<b>Approver</b>	For Condition 30 of the Airport Plan (Biodiversity Offset Delivery Plan) and any matter relating to the Biodiversity Offset Delivery Plan – the Environment Minister or an SES employee in the Environment Department For other matters – the Infrastructure Minister or an SES employee in the Infrastructure Department
<b>Apron</b>	The part of an airport used for: <ul style="list-style-type: none"> <li>a. the purposes of enabling passengers to embark/disembark an aircraft;</li> <li>b. loading cargo onto, or unloading cargo from, aircraft; and/or</li> <li>c. refuelling, parking or carrying out maintenance on aircraft</li> </ul>
<b>ARFFS</b>	Aviation Rescue and Firefighting Service
<b>AS/NZS</b>	Australian Standard / New Zealand Standard
<b>Associated Site</b>	An 'associated site for Sydney West Airport' as set out in section 96L of the Airports Act
<b>ATC</b>	Air Traffic Control
<b>ATCT</b>	Air Traffic Control Tower
<b>BEC</b>	Bulk Earthworks Contract
<b>Bulk Earthworks</b>	The large-scale earthworks required to flatten the Stage 1 Airport Development Area in preparation for further construction works as described in section 6 of the Construction Plan
<b>CASA</b>	Civil Aviation Safety Authority
<b>CASR</b>	<i>Civil Aviation Safety Regulations 1998</i> (Cth)
<b>CEMF</b>	Contractor Environmental Management Framework
<b>CEMP</b>	Construction Environmental Management Plan (required under Section 3.11.2 of the Airport Plan)

Item	Definition
<b>CIP</b>	Cumulative Impacts Plan
<b>CIZ</b>	Construction Impact Zone. The part or parts of the Airport Site or an Associated Site on which Main Construction Works are planned to occur, as detailed in the Construction Plan
<b>Condition</b>	A condition set out in Part 3 of the Airport Plan in accordance with section 96C of the Airports Act
<b>Construction Period</b>	The period from the date of commencement of Main Construction Works in any part of the Airport Site until the date of commencement of Airport Operations
<b>CRMP</b>	Cemeteries Relocation Management Plan
<b>CSEP</b>	Community and Stakeholder Engagement Plan (required under Condition 15 in Section 3.11.2 of the Airport Plan)
<b>CSR</b>	Combined Services Route
<b>D&amp;C</b>	Design and Construct
<b>DAWE</b>	Department of Agriculture, Water and the Environment (Cth)
<b>DFSI</b>	Department of Finance, Services and Innovation (Cth)
<b>DIPNR</b>	NSW Department of Infrastructure, Planning and Natural Resources (now DPIE)
<b>DITRDC</b>	Department of Infrastructure, Transport Regional Development and Communications (Infrastructure Department) (Cth)
<b>DPC</b>	NSW Department of Premier and Cabinet
<b>DPE</b>	NSW Department of Planning and Environment (formerly DPIE)
<b>DPI</b>	Department of Primary Industries (including Agriculture NSW, Fisheries NSW and NSW Office of Water) (now DPIE)
<b>DPIE</b>	NSW Department of Planning, Industry and Environment (now DPE)
<b>ECM</b>	Environmental Control Map
<b>Ecologically Sustainable Development</b>	Using, conserving and enhancing the community's resources so that the ecological processes on which life depends are maintained and the total quality of life now and in the future, can be increased (Council of Australian Governments, 1992)
<b>ECZ</b>	Environmental Conservation Zone
<b>EES</b>	The Environment, Energy and Science (EES) group within the Department of Planning, Industry and Environment, formerly known as Office of Environment and Heritage
<b>EEW</b>	Early Earthworks
<b>EIS</b>	Environmental Impact Statement prepared for WSI under the EPBC Act
<b>EMS</b>	Environmental Management System
<b>Environment Minister</b>	The Minister responsible for the EPBC Act
<b>EP&amp;A Act</b>	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
<b>EPA</b>	NSW Environment Protection Authority
<b>EPBC Act</b>	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
<b>ESA</b>	Environmentally Sensitive Area
<b>ESCP</b>	Erosion and Sediment Control Plan
<b>ETC</b>	Enterprise Technology Contract
<b>EWMS</b>	Environmental Work Method Statement
<b>FASL</b>	Final Airport Site Layout
<b>GSE</b>	Ground Support Equipment

Item	Definition
<b>Ha</b>	Hectares
<b>Identified Gravesite</b>	Grave sites identified in the European and other heritage technical report in volume 4 of the EIS which required human remains relocation.
<b>Infrastructure Department</b>	The Department responsible for administering the Airports Act, currently the Australian Government Department of Infrastructure, Transport Regional Development and Communications (DITRDC)
<b>Infrastructure Minister</b>	The Minister responsible for the Airports Act from time to time
<b>ISO 14001</b>	AS/NZS ISO 14001:2016 Environmental Management Systems
<b>Km</b>	Kilometres
<b>LCB</b>	Landside Civil and Buildings
<b>LDP</b>	Land Disturbance Permit
<b>LEP</b>	Local Environmental Plan
<b>M12 on Airport Works</b>	The physical works and infrastructure, including temporary works and infrastructure which the M12 Authority, its contractors and nominees plan, investigate, design, construct, install, commission, test, accept, complete, maintain, operate or repair within the Airport Site
<b>Main Construction Works (MWC)</b>	Substantial physical works on a particular part of the Airport Site (including large scale vegetation clearance, bulk earthworks and the carrying out of other physical works, and the erection of buildings and structures) described in Part 3 of the Airport Plan, other than TransGrid Relocation Works or Preparatory Activities
<b>MI</b>	Material Importation
<b>MTIP</b>	Major Transport and Infrastructure Projects (Cth) - a Division of DITRDC
<b>Non-conformance</b>	Failure to conform to the requirements of the Airport Plan including Approved Plans
<b>POEO Act</b>	<i>Protection of the Environment Operations Act 1997</i> (NSW)
<b>Preparatory Activities</b>	<ul style="list-style-type: none"> <li>a. day to day site and property management activities;</li> <li>b. site investigations, surveys (including dilapidation surveys), monitoring, and related works (e.g. geotechnical or other investigative drilling, excavation, or salvage);</li> <li>c. establishing construction work sites, site offices, plant and equipment, and related site mobilisation activities (including access points, access tracks and other minor access works, and safety and security measures such as fencing but excluding bulk earthworks);</li> <li>d. enabling preparatory activities such as: <ul style="list-style-type: none"> <li>i. demolition or relocation of existing structures (including buildings, services, utilities and roads);</li> <li>ii. the disinterment of human remains located in grave sites identified in the European and other heritage technical report in volume 4 of the EIS; and</li> <li>iii. application of environmental impact mitigation measures; and</li> </ul> </li> <li>e. any other activities which an Approver determines are Preparatory Activities for this definition</li> </ul>
<b>RAP</b>	Remediation Action Plan
<b>SEMF</b>	Site Environmental Management Framework (Construction Plan, Appendix 2)
<b>SEPP</b>	State Environmental Planning Policy
<b>SES</b>	Senior Executive Service
<b>SES Officer</b>	An SES employee under the <i>Public Service Act 1999</i> (Cth)
<b>Stage 1 Airport Development</b>	The Airport development described in Part 3 of the Airport Plan
<b>Sustainability Plan</b>	Plan required by Condition 29, Section 3.11.5 of the Airport Plan

Item	Definition
<b>Sydney West Airport</b>	The Airport. NB: this is the name used in the Act. The Airport is known as Western Sydney International (Nancy-Bird Walton) Airport, or, more commonly, Western Sydney International
<b>TfNSW</b>	Transport for New South Wales
<b>the Project</b>	Western Sydney Airport – Stage 1 Airport Development
<b>TSS</b>	Terminal and Specialty Services
<b>WSA</b>	WSA Co Limited (ACN 618 989 272), the entity responsible for constructing and operating the Airport in accordance with the Airport Plan. For the purposes of the Airports Act, WSA is the “Airport Lessee Company” for WSI.
<b>WSI</b>	Western Sydney International (Nancy Bird Walton) Airport. The Airport. NB: Under the Airports Act, the Airport is referred to as Sydney West Airport

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# 1 Introduction

## 1.1 Background/Context

This European and Other Heritage Construction Environmental Management Plan (European and Other Heritage CEMP) (this Plan) has been prepared to satisfy the requirements of the European and Other Heritage CEMP set out in the Conditions for the Stage 1 Development of the Western Sydney International (Nancy-Bird Walton) Airport (**WSI**) detailed in Section 3.11.2 of the Airport Plan. Specifically, Section 3.11.2 Condition 12(1) of the Airport Plan requires that a European and Other Heritage CEMP be approved under the Airport Plan prior to the commencement of Main Construction Works.

This European and Other Heritage CEMP provides the management approach and requirements (including environmental mitigation measures, controls, monitoring and reporting) for managing European and Other Heritage matters during construction of the Stage 1 Airport Development. This Plan forms one of nine CEMPs which are collectively covered by the WSA Site Environmental Management Framework (SEMF). To ensure the environmental resources, responsibilities and management measures are implemented during the construction activities, the SEMF is contained within the Construction Plan (included as Appendix 2). The implementation of the Construction Plan, including the SEMF, sit adjacent to other Project level management plans including the Community and Stakeholder Engagement Plan (CSEP) and the Sustainability Plan as illustrated in Table 1.

The Construction Plan, including the SEMF, and nine CEMPs provide the environmental management approach and requirements and therefore should not be read in isolation to each other due to interconnecting management outcomes and objectives. Specifically, for the European and Other Heritage CEMP, it is considered that the following management plan linkages can be made:

- Aboriginal Cultural Heritage CEMP – Management of European heritage works will need to take into account the controls provided in this CEMP.
- Visual and Landscape CEMP – European heritage items have the potential to be impacted by changes to visual amenity.
- CSEP – It is anticipated that the surrounding community and stakeholders will be sensitive to heritage impacts.
- Sustainability Plan – Management of heritage impacts about quality of life for surrounding communities. This linkage with the WSA Sustainability Plan extends to IS Rating discharge credit Heritage Her-1 and Her-2, where compliance with this CEMP will ensure the project will meet credit requirements.

Where relevant, linkages to other CEMPs and management objectives have been included in the risk assessment and the environmental control measures (Section 6.1 and Section 7 respectively).

Table 1 highlights relationships and linkages of this European and Other Heritage CEMP with other CEMPs and Plans, including key cross-referencing to Airport Plan and Environmental Impact Statement (EIS) requirements.

**Table 1: European and Other Heritage CEMP Relationship with other Plans**

CEMP or Plan	Airport Plan Condition (3.11.2)	EIS Chapter 28 Table: Management area	EIS Chapter 28 Table: Mitigation measures
Aboriginal Cultural Heritage	11	28-12	28-13
Air Quality	10	28-10	28-11
Biodiversity	7	28-04	28-05
Community and Stakeholder Engagement Plan	15	28-20	28-21
<b>European and Other Heritage (this Plan)</b>	12	28-14	28-15
Noise and Vibration	6	28-02	28-03
Soil and Water	8	28-06	28-07
Sustainability	29	28-37	28-38
Traffic and Access	9	28-08	28-09
Visual and Landscape	14	28-18	28-19
Waste and Resources	13	28-16	28-17

Key
Moderate to high relevance to this CEMP
Some relevance to this CEMP

The review and document control process for this Plan are described further in Section 10 of the SEMF.

The context of this Plan in relation to the WSA Environmental Management System (EMS) is presented in Figure 1.

## 1.2 Document Purpose

The purpose of this Plan is to avoid/mitigate European and other heritage impacts and provide the foundation for the management of all European and Other Heritage impacts for all construction activities as per the approved Construction Plan; in accordance with best practice and legal requirements (including environmental mitigation measures, controls, monitoring and reporting). Objectives, targets and performance criteria are set out in Section 3 of this CEMP.

This Plan details the European and Other Heritage management requirements that must be satisfied in order to demonstrate compliance with Condition 12 of Section 3.11.2 of the Airport Plan for the construction of the Stage 1 Airport Development.

Legal and other requirements are identified and maintained in a register within the SEMF (refer SEMF Appendix L). Specific European and other heritage mitigation measures are included within this CEMP (refer Section 7), are derived from the EIS (refer Section 4.5) and are required to be satisfied as well as assessed through risk assessment processes (refer Section 6.1).

Section 7 outlines how mitigation measures will be implemented, by who and at which phase of construction. Implementation of these measures is ensured through a program of work activities, monitoring, training and competence, inspection, auditing and reporting actions (refer Sections 10 and 11), with the responsibilities for implementation identified in Section 9. Continual improvement processes in relation to compliance with regulatory requirements are detailed in the SEMF Section 10.

In summary, this Plan sets out to achieve the following:

- Provision of details for the management and mitigation measures to be implemented, including timing and responsibilities;
- Ensuring the commitments of the Conditions (as set out in the Airport Plan) and regulatory requirements are met and satisfied by both WSA and contractors;

- Provision of process for monitoring implementation, reporting, and auditing of European and Other Heritage related management and compliance related issues;
- Commitment to meeting the requirements of AS/NZS ISO 14001:2016 Environmental Management Systems, including the need for continual improvement;
- Provision of a process to be implemented for the management of complaints, for stakeholder engagement, and for the management of emerging environmental issues as they arise; and
- Provision of a system including procedures, plans and documentation for implementation by WSA personnel and contractors to enable Project completion in accordance with the environmental requirements.

Effective implementation of this Plan will assist WSA and relevant contractors to achieve compliance with necessary environmental regulatory and policy requirements in a systematic manner with an outcome of continual environmental management performance.

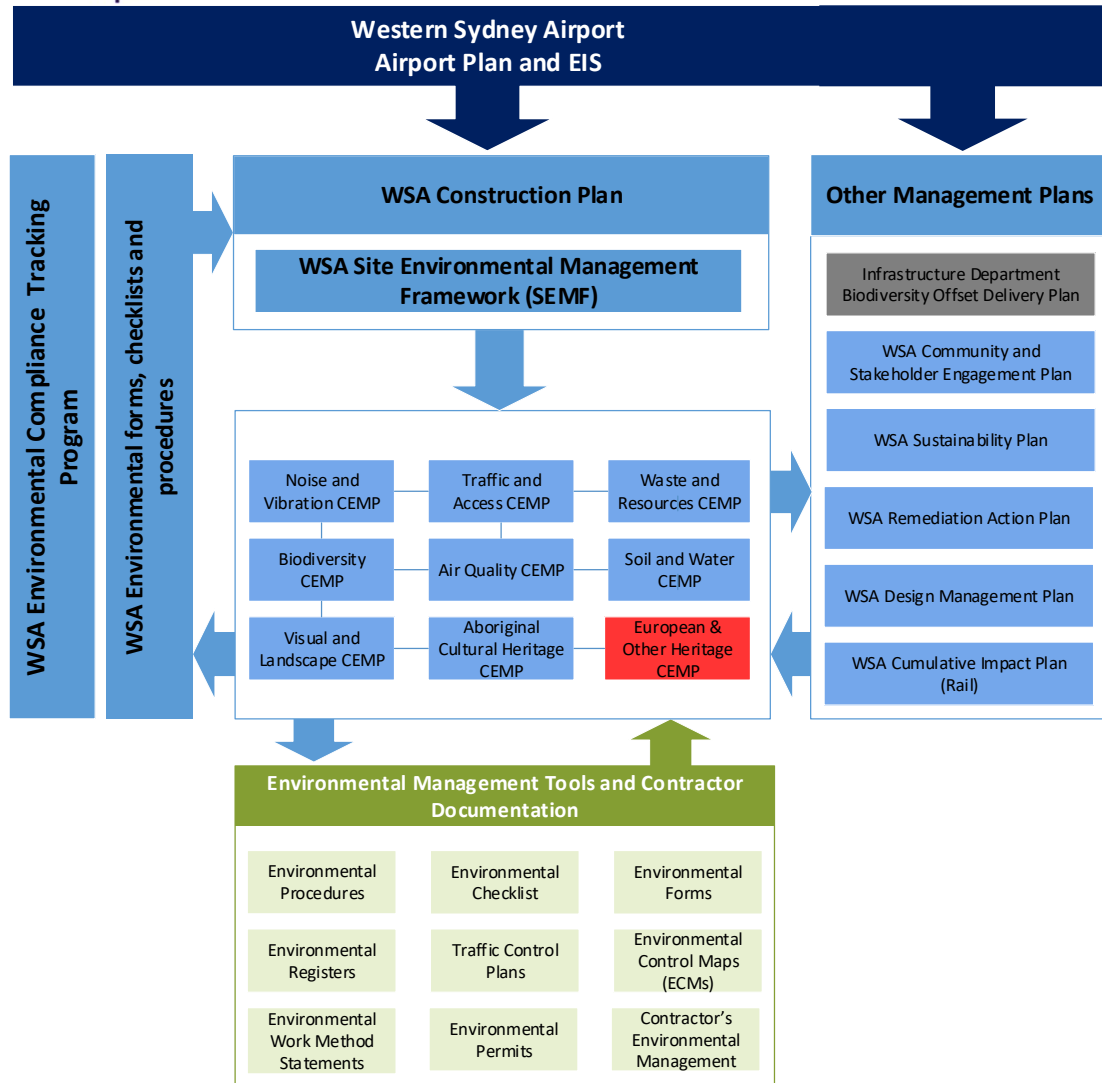
### **1.3 WSA EMS Overview**

WSA operates in general accordance with AS/NZS ISO 14001:2016 – Environmental management systems. A copy of the WSA Environmental Policy is provided in Appendix H of the SEMF.

The Stage 1 Airport Development will be undertaken in accordance with the Construction Plan including the SEMF and the associated CEMPs (including this Plan).

The SEMF forms an appendix to the Construction Plan and is the overarching management plan for the implementation of the nine CEMPs. It provides a structured and systematic approach to environmental management and provides an expectation and guidance with regards to environmental management for the construction of the Stage 1 Airport Development.

The structure of the EMS for the Project is shown in Figure 1.



**Figure 1: WSA EMS and CEMP Context**

## 1.4 Consultation Requirements of this Plan

Airport Plan Condition 35 outlines the consultation requirements during the preparation of the CEMP documentation and requires consultation with any NSW Government agencies as specified by the NSW Department of Premier and Cabinet (DPC) as well as the NSW Department of Planning, Industry and Environment (DPIE) for specific CEMPs. NSW Government agencies specified by DPC for consultation on this CEMP include DPIE, Penrith and Liverpool City Councils.

Further, Airport Plan Condition 12(3) requires that this CEMP take into account Table 28-14 of the EIS which states the CEMP should also be prepared in consultation with the DPIE and other relevant Australian and local government bodies.

Consultation has been completed during the development of this CEMP during the review and update of Revision 0 and 1 in 2018 and , Revision 2 in 2019, Revision 3 in 2021, and this Revision 4 in 2022. A summary of the stakeholder and government agency consultation completed and used to inform the review and finalisation of Revision 4 is presented in Table 2.

Consultation will continue with government agencies and other relevant stakeholders throughout the Project where there is a change to a CEMP. The outcomes of this consultation will be documented in subsequent revisions of the relevant CEMPs, with details of such consultation included in the applicable document.

### 1.4.1 Consultation to Inform Revision 4

A Community and Stakeholder Engagement Plan (CSEP) outlining the process for engaging with stakeholders was prepared by the WSA Community and Engagement team. The CSEP and a scoping document outlining the works in the Construction Plan and potential modification of the CEMPs was provided to the stakeholders as required by the Airport Plan Conditions.

Details of the construction phases were described in the correspondence to provide context to stakeholders on the level of impact that would result from the next phase of construction activities. Upcoming phases of construction captured in Revision 4 of the CEMPs include the Airside Civil and Pavement (ACP) and Landside Civil and Building (LCB) scopes, along with the M12 on Airport works, fuel farm (being constructed by the Terminal and Speciality Services contractor), permanent utilities, and ancillary buildings. Stakeholders were invited to attend a site visit and briefing presentation at the WSI Experience Centre on 29 March 2022 to assist the stakeholders to understand the size and scale of the site elements. The briefing presentation was offered to stakeholders to attend in one of three ways:

- Face-to-face followed by a tour of the Airport site precinct;
- Via videoconference; or
- Face-to-face without participating in the site precinct tour.

On 8 April 2022, stakeholders were provided with the Construction Plan, the nine draft CEMPs and the CSEP to review and were asked to provide comment. A summary of the consultation is provided in Table 2

**Table 2: European and Other Heritage CEMP Consultation**

Activity	Date	Invitees	Summary
<b>Consultation Summary</b>			
Briefing presentation for stakeholders	29 March 2022	<ul style="list-style-type: none"> <li>• Department of Agriculture, Water and the Environment (DAWE)</li> <li>• Greater Sydney Commission</li> <li>• Infrastructure Department</li> <li>• Liverpool City Council</li> <li>• NSW Aboriginal Affairs</li> <li>• NSW Ambulance</li> <li>• NSW Department of Customer Service</li> <li>• NSW DPIE</li> <li>• NSW EPA</li> <li>• NSW Health</li> </ul>	As part of the continuous improvement of the consultation process, a site visit and briefing presentation for stakeholders was organised.
CEMPs provided to stakeholders for comment	8 April 2022	<ul style="list-style-type: none"> <li>• NSW Department of Customer Service</li> <li>• NSW DPIE</li> <li>• NSW EPA</li> <li>• NSW Health</li> <li>• NSW Government Architect</li> <li>• NSW National Parks and Wildlife Service</li> <li>• Penrith City Council</li> <li>• Property NSW</li> <li>• Resilience NSW</li> <li>• Rural Fire Service</li> <li>• South Western Sydney Local Health District</li> <li>• Sydney Metro</li> <li>• Transport for NSW</li> <li>• Transport Management Centre</li> <li>• Western Parkland City Authority</li> <li>• WSA Community Commissioner</li> </ul>	It is a useful element to assist stakeholders to understand size and scale and also have discussions related to site elements as they are seen during the site visit

## 1.5 Certification and Approval

This European and Other Heritage CEMP has been reviewed and approved for issue by the WSA Environment Manager prior to submission to the Commonwealth Department of Infrastructure, Transport, Regional Development and Communications (Infrastructure Department) for approval in accordance with the EIS Table 28-14 (refer Table 8).

## **1.6 Distribution**

All WSA personnel and contractors will have access to this European and Other Heritage CEMP via the Project document control management system. Unless otherwise agreed by the Approver, the Approved Plan must be published on WSA's website within one month of being approved and be available until the end of the Construction Period. An electronic copy can be found on the Project website - <https://westernsydney.com.au>

This document is uncontrolled when printed. One controlled hard copy will be maintained by the Quality Manager at the Project office.

## 2 Scope of Works

The Construction Plan details the construction staging of the Stage 1 Airport Development. The delivery of the Stage 1 Airport Development will be through a packaging strategy with a wide variety of package sizes, risk profiles and contracting entities. Each package (scope of work allocated to one contractor) will have different levels of environmental risk and environmental obligations, depending on the scope of works, location of works and sensitivity of the receiving environment and cultural heritage issues and relevant statutory requirements and obligations.

Stage 1 Airport Development of the Project comprises the following key features as described in the Construction Plan (which is consistent with the Airport Plan and EIS Chapter 5):

- Site preparation
- Utilities
- Ancillary developments
- Terminal
- Airside
- Ground transport
- Other building activities
- Aviation support facilities

Details of the Project construction packages, activities, staging and programming including the phases of works for each package are described in Section 6 of the Construction Plan (WSA00-WSA-00000-CN-PLN-000001) as required by the Airport Plan Condition 1(5).

This Plan applies to all phases of works as described in Section 6 of the Construction Plan.

A variation to this Plan will be submitted before work other than Preparatory Activities is undertaken on any other phases of works.



## 3 Objectives and Targets

### 3.1 Objectives

The key objective of this Plan is to ensure European and Other Heritage is managed and protected during construction of the Project.

To achieve this objective, the following will be undertaken:

- Implement agreed management measures for elements of European and Other Heritage;
- Treat all heritage items with respect to their identified values;
- Ensure appropriate measures are implemented to address the mitigation measures detailed in Table 28-14 and Table 28-15 in Chapter 28 of the EIS; and
- Ensure appropriate measures are implemented to comply with all relevant legislation and other requirements as described in Section 4 of this Plan.

### 3.2 Targets and Performance Criteria

Targets and performance criteria have been established for the management of European and Other Heritage impacts during the construction phase of the works which have been derived from the framework and performance criteria identified in the EIS Table 28-14, as presented in Table 3.

**Table 3: European and Other Heritage Objectives, Targets and Performance Criteria**

Objective	Target	Performance Criteria	Document Reference
Minimise disturbance and loss to European or Other Cultural Heritage values	Compliance with objectives to ensure that environment and heritage items are appropriately considered as outlined in the Land Use Plan in the Airport Plan.	Ensure full compliance with statutory requirements (including general duty to preserve heritage under the <i>Airports (Environment Protection) Regulations 1997 (AEPR)</i> .	Environmental inspection checklist Site Diary Environmental reporting
Enhance public knowledge of the heritage values in the local area	Recognising the European and other heritage values of the site in the detailed design of the airport.	Treating heritage items with respect to their identified values.	CSEP
Implement agreed management measures for elements of European and other heritage	Compliance with the general duty to preserve heritage under the AEPR.	Compliance with the approved European and Other Heritage CEMP.	This CEMP

The above targets in Table 3 have been set to provide a benchmark performance objective to which WSA will endeavour to achieve. Failure to achieve the targets will not be considered a non-conformance, however will prompt internal review of environmental management and the consideration of potential improvement opportunities.

## 4 Environmental Legal and other Requirements

Relevant environmental legislation and other requirements are identified below.

### 4.1 Relevant Legislation and Guidelines

As WSI is to be developed under the Airport Plan determined under the Commonwealth *Airports Act 1996* (Airports Act), some state laws will not be applicable to the Project (refer s112 Airports Act). Where state law is applicable, this Plan will set out the relevant applicable state legislation and requirements and demonstrate how compliance with those laws, including obtaining relevant permits will be achieved. Where state laws are not applicable, there may nonetheless be a requirement to have regard to those laws, for example, through mitigation measures to be incorporated in CEMPs to satisfy conditions under the Airport Plan.

### 4.2 Legislation

Relevant environmental legislation and regulations to this Plan are summarised in Table 4. Further legislative details can be found in Section 3.2 of the SEMF and its Appendix L – Legal and other Requirements Register.

**Table 4: Principal Environmental Legislation and Relevance**

Legislation or Regulation	Relevance	CEMP Compliance Provisions
<b>Commonwealth</b>		
Airports Act 1996 (Airports Act)	<p>The Airports Act and AEPRs set out the framework for the regulation and management of activities at airports that could have potential to cause environmental harm.</p> <p>This includes offences related to environmental harm, environmental management standards, monitoring and incident response requirements.</p> <p>The Airport Plan prepared under the Airports Act covers several environmental matters and, in particular, details specific measures to be carried out for the purposes of preventing, controlling or reducing the environmental impact associated with the airport.</p> <p>Criminal offences may be applicable if these measures are not complied with.</p>	<p>This CEMP forms part of the overall WSA EMS which has as a target of full compliance with the Airport Plan.</p> <p>Relevant mechanisms within this CEMP that will contribute to this include but are not limited to:</p> <ul style="list-style-type: none"> <li>• Section 3.1 – Objectives</li> <li>• Section 4.4 – Airport Plan Conditions</li> <li>• Section 4.5 – Environmental Impact Statement Requirements</li> <li>• Section 6.1 – Risk assessment</li> <li>• Section 7 – Environmental control measures</li> <li>• Section 9 – Roles and responsibilities</li> <li>• Section 10 – Inspection, Monitoring and Auditing</li> <li>• Section 10.6 – Environmental Incidents and complaints management</li> <li>• Section 10.5 – Review of approved plans</li> </ul>
Airports (Building Control) Regulations 1996 (ABC Regulations)	Any conditions imposed on the ABC and ALC on their consents must be satisfied by the applicant. These conditions are additional to any requirements identified under the CEMPs.	This CEMP
Airports (Environment Protection) Regulations 1997 (AEPR)	Imposes various duties including a general duty to preserve existing aesthetic, cultural, historic and social values and a duty to give notice of unexpected finds.	Refer to commentary for Airports Act above.

Legislation or Regulation	Relevance	CEMP Compliance Provisions
Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)	<p>National environment law that provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places, defined in the Act as matters of national environmental significance.</p> <p>Relevant heritage items listed on the National Heritage List include the Greater Blue Mountains World Heritage Area.</p> <p>There are no relevant places listed on the Commonwealth Heritage list</p>	<p>Section 7 – Environmental control measures</p> <p>Section 10 – Inspection, monitoring, auditing and reporting</p>
<b>NSW</b>		
Environmental Planning and Assessment Act, 1979 (EP&A Act)	<p>Objects of the Act include the encouragement of proper management and conservation of natural and artificial resources and the promotion of the orderly and economic use and development of land in NSW. The EP&amp;A Act also provides for the making of environmental planning instruments including State Environmental Planning Policies (SEPPs) and Local Environmental Plans (LEPs), which include land use controls, such as development standards applicable to the land within the area covered by each instrument.</p>	<p>This Project has been authorised under the Airports Act; however, a range of matters arising from the EP&amp;A Act have been considered.</p> <p>Section 7 – Environmental control measures</p>
Heritage Act 1997	<p>The Heritage Act makes provisions for the conservation of NSW's non-Aboriginal environmental heritage.</p>	Section 7 – Environmental control measures
Liverpool Local Environmental Plan 2008 (Liverpool LEP)	<p>The Liverpool LEP provides local environmental planning controls and standards for land in the Liverpool LGA in accordance with the relevant standard environmental planning instrument under section 33A section 3.20 of the EP&amp;A Act.</p>	Section 7 – Environmental control measures
Penrith Local Environmental Plan 2010 (Penrith LEP)	<p>The Penrith LEP provides local environmental planning controls and standards for land in the Penrith LGA in accordance with the standard environmental planning instrument under section 33A section 3.20 of the EP&amp;A Act.</p>	Section 7 – Environmental control measures
State Environmental Planning Policy (Precincts – Western Parkland City) 2021	<p>Formerly the Aerotropolis SEPP, this SEPP was made in accordance with division 3.3 of the EP&amp;A Act and provides planning controls for development within the Western Sydney Aerotropolis (the land immediately surrounding WSI). The SEPP overrides any LEP provisions that apply to that land.</p>	Section 7 – Environmental control measures

Legislation or Regulation	Relevance	CEMP Compliance Provisions
Work Health and Safety Act 2011 (WHS Act) & Work Health and Safety Regulation 2017 (WHS Regulation)	<p>The WHS Act provides a framework to protect the health, safety and welfare of all workers and others in relation to NSW workplaces and work activities.</p> <p>The WHS Regulation sets out specific requirements for particular hazards and risks, such as noise, machinery, and manual handling.</p>	WSA Work Health and Safety (WHS) Plan

## 4.3 Guidelines and Standards

Guidelines and standards that are relevant to European and Other Heritage management and this plan are summarised in Table 5.

**Table 5: Relevant Guidelines and Standards**

Guidelines and Standards	Relevance to this CEMP
Archaeological Assessment Guidelines (NSW Heritage Office and NSW Department of Urban Affairs and Planning 1996)	Section 8.4 - Items of heritage significance could be affected by the works
Assessing Heritage Significance (NSW Heritage Office 2001)	Section 8.4 - Items of heritage significance could be affected by the works
Assessing Historical Association: A Guide to State Heritage Register Criterion B (Heritage Office 2000)	Section 8.4 - Items of heritage significance could be affected by the works
Assessing Historical Association: A Guide to State Heritage Register Criterion A (Heritage Office 2006)	Section 8.4 - Items of heritage significance could be affected by the works
Assessing Significance for Historical Archaeological Sites and 'Relics' (Heritage Council of NSW 2009)	Section 8.4 - Items of heritage significance could be affected by the works
Charter for Places of Cultural Significance ('the Burra Charter') (Australia ICOMOS 2013)	Section 8.4 - Items of heritage significance could be affected by the works
Guidelines for Photographic Recording of Heritage Items Using Film or Digital Capture (NSW Heritage Office 2006)	Section 5.4.1 - Archival record of European Heritage items report
Historical Archaeology Code of Practice (Heritage Office, Department of Planning 2006)	Section 8.4 - Items of heritage significance could be affected by the works
How to Prepare Archival Records of Heritage Items (NSW Heritage Office, 1998)	Section 8.4 - Items of heritage significance could be affected by the works
NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996)	Section 8.4 - Items of heritage significance could be affected by the works
Photographic Recording of Heritage Items Using Film or Digital Capture (Heritage Branch 2006)	Section 8.4 - Items of heritage significance could be affected by the works
Western Sydney Aerotropolis Development Control Plan 2020 Phase 1	Section 4.1 - Legislation

## 4.4 Approvals and Other Specifications

Approvals relevant to European and Other Heritage management in this plan are summarised in Table 6.

**Table 6: Approvals Relevant to European and Other Heritage Management**

Approvals	Relevance to this CEMP
Western Sydney Airport Plan	Provides the Conditions of Approval relevant to European and other heritage management during construction.
Western Sydney Airport EIS	The requirements of European and other heritage management to be taken into account and addressed during the construction phase of the Stage specifically EIS Table 28-15.

In addition to the above approvals, the following specifications are relevant to European and other heritage management and this CEMP:

- Functional Specifications;
- WSA Sustainability Plan;
- WSA CSEP; and
- WSA Construction Plan, including the SEMF.

## 4.5 Airport Plan Conditions

Conditions relevant to the management of European and Other Heritage during construction of the Stage 1 Airport Development are documented in Section 3.11.2 of the Airport Plan and summarised in Table 7. Compliance with the Airport Plan conditions is a statutory requirement and as such, failure to comply may constitute a criminal offence liable to criminal prosecution under the Airports Act.

**Table 7: Airport Plan Conditions relevant to European and Other Heritage Management**

Condition No.	Condition	Timing	Responsibility	Ref in this CEMP
1.4	The Site Occupier must ensure that no CEMP is inconsistent with the approved Construction Plan	Ongoing	WSA	This CEMP
1.5	The approved Construction Plan may provide for Main Construction Works to be carried out in phases that commence at different times for different parts of the Airport Site or an Associated Site. If it does, the Site Occupier may prepare a CEMP in relation to one or more phases, and the criteria for approval of such a CEMP are taken to exclude any matter irrelevant to the phases for which approval is sought. A variation of the CEMP must be submitted for approval in accordance with condition 49 (Variation of Approved Plans) prior to commencement of any new phase.	Ongoing	WSA	This CEMP
5.3	In carrying out a Preparatory Activity for the Airport Stage 1 Development, the Site Occupier must:  a) implement any plan approved in accordance with sub condition (1) or (2), except to the extent that the plan is inconsistent with any subsequently approved CEMP or the approved Construction Plan; and  not act inconsistently with any approved CEMP or the approved Construction Plan.	Ongoing	WSA	SEMF
<b>Disinterment of human remains</b>				

Condition No.	Condition	Timing	Responsibility	Ref in this CEMP
3.1	<p>The Site Occupier must not disinter any of the human remains located in grave sites identified in the European and other heritage technical report in volume 4 of the EIS:</p> <ul style="list-style-type: none"> <li>b) until a Cemeteries Relocation Management Plan has been prepared and approved in accordance with this condition; or</li> <li>c) inconsistently with the approved Cemeteries Relocation Management Plan.</li> </ul>	Prior to Main Construction Works	Commonwealth Preparatory Activity	Completed in accordance with the Cemeteries Relocation Management Plan (standalone document)
3.2	<p>The Infrastructure Department must prepare and submit to an Approver for approval a Cemeteries Relocation Management Plan, dealing with:</p> <ul style="list-style-type: none"> <li>a) Preparatory Activities to assist with determining the scope of the process involved in relocating the human remains located in grave sites identified in the European and other heritage technical report in volume 4 of the EIS;</li> <li>b) The disinterment of the remains; and</li> <li>c) The reinterment of the remains at another cemetery or other cemeteries.</li> </ul>	Prior to Main Construction Works	Commonwealth Preparatory Activity	Completed in accordance with the Cemeteries Relocation Management Plan (standalone document)
3.3	<p>In preparing the Cemeteries Relocation Management Plan, the Infrastructure Department must take into account the following principles:</p> <ul style="list-style-type: none"> <li>a) consultation with relatives and stakeholders;</li> <li>b) reasonable public notice prior to the commencement of exhumation activities;</li> <li>c) reasonable endeavours to contact surviving relatives;</li> <li>d) consideration of public health and heritage matters; and</li> <li>e) carrying out activities sensitively with due respect and reverence.</li> </ul>	Prior to Main Construction Works	Commonwealth Preparatory Activity	Completed in accordance with the Cemeteries Relocation Management Plan (standalone document)
<b>European and Other Heritage management</b>				
12.1	<p>The Site Occupier must not:</p> <ul style="list-style-type: none"> <li>a) commence Main Construction Works until a European and Other Heritage CEMP has been prepared and approved in accordance with this condition; or</li> <li>b) carry out any Preparatory Activities inconsistently with Table 28–15 in Chapter 28 of the EIS; or</li> <li>c) carry out any development described in Part 3 of the Airport Plan inconsistently</li> </ul>	Prior to Main Construction Works	WSA	This CEMP



Condition No.	Condition	Timing	Responsibility	Ref in this CEMP
	with the approved European and Other Heritage CEMP.			
12.2	The Site Occupier must: a) prepare; and b) submit to an Approver for approval; a European and Other Heritage CEMP in relation to the carrying out of the developments which are part of the Airport Stage 1 Development.	Prior to Main Construction Works	WSA	This CEMP
12.3	The criteria for approval of the European and Other Heritage CEMP are that an Approver is satisfied that: a) in preparing the European and Other Heritage CEMP, the Site Occupier has taken into account Table 28–14 in Chapter 28 of the EIS; and b) the European and Other Heritage CEMP complies with Table 28–15 in Chapter 28 of the EIS and is otherwise appropriate.	Prior to Main Construction Works	The Approver	This CEMP Section 4.5, 6, 7, 8, 9 and 10
35	An Approver must not approve a plan referred to in Chapter 28 of the EIS unless he or she is satisfied that the Plan Owner: a) in preparing the plan, has consulted with any NSW Government agencies specified by the NSW Department of Premier and Cabinet; and b) has provided: I. the Approver; and II. each consulted agency, with an explanation of how any responses have been addressed.	Ongoing	The Approver	This CEMP Section 1.4.1
45 to 50	Sets out the requirements in relation to informing other parties of conditions, keeping records, publishing reports, independent audits, variation to approved plans and publication of approved plans	Ongoing	WSA and Approver	This CEMP
42	Cumulative Impacts Plan 1) The Rail Authority must not commence Rail Construction Works until a Cumulative Impacts Plan has been approved in accordance with this condition. 2) The ALC must: (a) prepare; and (b) submit to an Approver for approval; a Cumulative Impacts Plan in relation to cumulative impacts arising from the concurrent construction of the Airport Stage 1 Development and the Rail Development.	Prior to rail construction works occurring	WSA and the Approver	Cumulative Impacts Plan (Rail) WSA00-WSA-00400-EN-PLN-000013

Condition No.	Condition	Timing	Responsibility	Ref in this CEMP
	<p>3) The criteria for approval of the Cumulative Impacts Plan are that an Approver is satisfied that the Cumulative Impacts Plan:</p> <p>a) sets out:</p> <ul style="list-style-type: none"> <li>I. co-ordination and consultation requirements between the following stakeholders as relevant to manage the interface of projects under construction at the same time: the ALC, the Rail Authority, Transport for NSW, Western Parkland City Authority, Sydney Water, emergency service providers and utility providers;</li> <li>II. the responsibility for management of the impacts set out in the Cumulative Impacts Plan;</li> <li>III. the relevant environmental management framework relating to construction of the Airport Stage 1 Development and the Rail Development; and</li> <li>IV. the process for proactively identifying and managing cumulative impacts;</li> </ul> <p>b) has been prepared in consultation with the Rail Authority; and</p> <p>c) is otherwise appropriate.</p> <p>4) Each of the Rail Authority and the ALC must not act inconsistently with the approved Cumulative Impacts Plan.</p>			

## 4.6 EIS Requirements

The requirements of European and Other Heritage management to be considered and addressed during the construction phase of the Stage 1 Airport Development are included in the EIS, Table 28-14 and 28-15.

A summary of these requirements and how they have been addressed in this European and Other Heritage CEMP is presented in Table 8.

**Table 8: Summary of European and Other Heritage Management Requirements**

EIS Reference	Topic	Summary	European and Other Heritage CEMP Reference
Table 28-14	Performance Criteria	Compliance with the approval European and Other Heritage CEMP	Section 3 – Objectives and targets
		Compliance with the general duty to preserve heritage under the AEPR	Section 3 – Objectives and Targets Section 4.1.1 Legislation & Table 4 Relevant Environmental Legislation
		Compliance with objectives to ensure that environment and heritage items are appropriately considered as outlined in the Land Use Plan in the Airport Plan	Section 3 – Objectives and Targets Section 4.1.1 Legislation & Table 4 Relevant Environmental Legislation
		Treating all heritage items with respect to their identified values; and	Section 3 – Objectives and Targets Section 4.1.1 Legislation & Table 4 Relevant Environmental Legislation
		Recognising the European and other heritage values of the site in the details design of the airport, for example, through onsite archiving and curation of heritage items, and public display materials	Section 3 – Objectives and Targets Section 4.1.1 Legislation & Table 4 Relevant Environmental Legislation
Table 28-14	Implementation framework	A European and Other Heritage CEMP will be approved prior to Main Construction Works for the proposed airport. The CEMP will collate measures to mitigate and manage potential upon European and Other Heritage, including cross-reference to other environmental management plans where they are relevant.	Section 1.6 Certification & Approval Section 7 - Environmental control measures
		The European and Other Heritage CEMP will as a minimum.	
		Detail the management and mitigation measures to be implemented, including those outlines in Table 28-15.	Section 4.5 - EIS Requirements Table 8 - Summary of European and Other Heritage Management Requirements Section 7 - Environmental control measures Section 4.5 - Environmental Impact Statement requirements

EIS Reference	Topic	Summary	European and Other Heritage CEMP Reference
		Describe the process for managing complaints, stakeholder engagement and emerging environmental management issues as they arise.	Section 10.6 – Incidents and Complaints management
		Specify the process for monitoring implementation, reporting and auditing.	Section 10 – Inspection, monitoring and auditing
		Details of the party responsible for implementing the European and Other Heritage CEMP.	Section 9 – Roles and responsibilities Section 10.5 Review of Approved Plans
Table 28-14	Monitoring	The overarching approach to management of European cultural heritage values at the airport is to appropriately record and, where practical, salvage a portion of the identified heritage items through mitigation and management measures such as archival recording, staged demolition and/or relocation. All identified European heritage structures and items on the airport site are expected to be removed prior to or during construction of the proposed Stage 1 airport development. Accordingly, ongoing monitoring would not form a significant aspect of the European and Other Heritage CEMP.	Section 10 – Inspection, monitoring, auditing, and reporting
Table 28-14	Auditing and reporting	An annual report will be prepared and submitted to the Secretary of the Infrastructure Department in relation to compliance with the European and Other Heritage CEMP for the period until the airport commences operations.	Section 10.4 - Environmental reporting
		General reporting requirements are set out under the AEPR	Section 10.4 - Environmental reporting
Table 28-14	Responsibility	Responsibilities include:	-
		The European and Other Heritage CEMP will be prepared in consultation with the Department of Planning, Industry and Environment and other relevant Australian and local government bodies	Section 1.4 – Consultation requirements of this Plan
		The European and Other Heritage CEMP will be submitted for approval to the Infrastructure Minister or an SES Officer in the Department of Infrastructure and Regional Development	Section 1.6 – Certification and approval
		The design and construct (D&C) contractor will be responsible for implementing site specific environmental procedures and work method statements applicable to the proposed works in accordance with the requirements of this European and Other Heritage CEMP	Section 1.2 – Document Purpose SEMF Section 4 – Roles and Responsibilities
		Works in accordance with the requirements of the European and Other Heritage CEMP	Section 1.2 – Document Purpose SEMF Section 4 – Roles and Responsibilities

EIS Reference	Topic	Summary	European and Other Heritage CEMP Reference
Table 28-15	European Heritage management	<p>The following measures are to be implemented in the manner identified in Chapter 6 of the Appendix O of the EIS for the respective European and Other heritage items (i.e. not all measures will apply to each item) under the supervision of a suitably qualified archaeologist:</p> <ul style="list-style-type: none"> <li>• Further targeted archaeological investigation will be undertaken to record subsurface remains and infer the layout, occupants and activities of certain European heritage places</li> <li>• Archival recording will be undertaken, including photographic records and measured drawings in their local context for future reference, having regard to the guidelines How to Prepare Archival Records of Heritage Items (NSW Heritage Office 1998) and Guidelines for Photographic Recording of Heritage Items Using Film or Digital Captures (NSW Heritage Office 2006)</li> <li>• An inventory of moveable items will be prepared to record information such as the location, designer, creator, use and owner of items such as tools of trade or machinery</li> <li>• Cultural plantings will be investigated to identify and collect samples of plant varieties that have local or historic botanical significance, including plant varieties that are characteristic of the area or not otherwise broadly planted. A list of relevant identified plant species would need to be identified and consideration given to future landscaping (refer to the Visual and Landscaping CEMP). Other considerations include weed mitigation and not attracting birdlife.</li> <li>• Options will be explored for potential relocation of identified European heritage structures to preserve intact surface structures</li> <li>• Identified European heritage structures will be demolished in a staged and careful manner that reveals information about their construction, renovation, finishes and so on, which would be recorded</li> </ul>	Section 7 - Environmental control measures
Table 28-15	Cemeteries relocation	A Cemeteries Relocation Management Plan will be submitted for approval by the Infrastructure Minister or an SES Officer in the Infrastructure Department prior to the disinterment (removal) and reinterment (relocation) of grave sites from the airport site.	Cemeteries Relocation Management Plan has been prepared by the Infrastructure Department
Table 28-15	Heritage awareness	Heritage awareness training will be provided to all works involved in site preparation and construction of the proposed airport.	<p>Section 7 - Environmental control measures</p> <p>Section 11 - Competence, training and awareness</p>
Table 28-15	Unexpected finds	<p>A procedure will be developed and followed if European heritage items are discovered during construction.</p> <p>Recognising the possibility of unmarked graves occurring, a procedure will be developed and followed if human remains are discovered at the airport site during construction.</p>	<p>Section 7 - Environmental control measures</p> <p>WSA Unexpected Finds Protocols Procedure (SEMF Appendix I)</p>

EIS Reference	Topic	Summary	European and Other Heritage CEMP Reference
Table 28-15	Cultural significance of the Airport Site	<p>An oral history will be prepared as measure to preserve the heritage value of the airport site. This could include descriptions and reminiscences by people closely associated with the site.</p> <p>The European and Other Heritage values of the site will be recognised in the detailed design of the airport, for example, through onsite archiving and curation of heritage items, and public display materials.</p>	Section 7 - Environmental control measures

## 5 Existing Environment

The following information is summarised from the European and Other Heritage Assessment in Chapter 20 of the EIS Volume 2A. In addition, Section 5.3 includes a summary of works / assessments completed since the preparation of the EIS including:

- Cemeteries relocation plan; and
- Archival recordings of European heritage items.

It should be noted that for the purpose of the Stage 1 Airport Development works covered by this CEMP (the existing environment described herein is considered consistent and acceptable for consideration in the risk assessment process and the identification of suitable environmental mitigation measures and controls. Details of environmental mitigation measures and controls for the management of European and Other Heritage impacts is provided in Section 7.

### 5.1 European Heritage

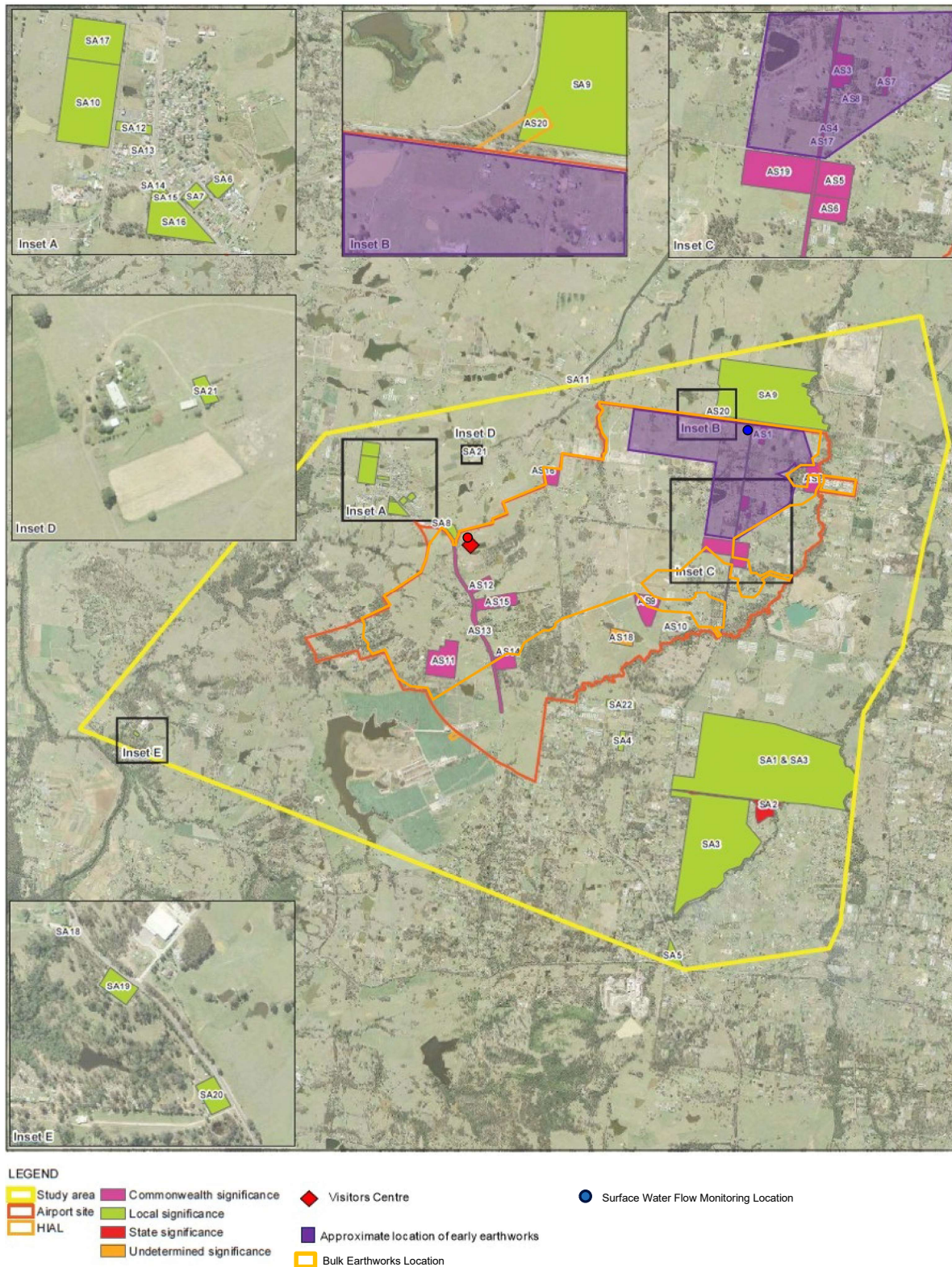
There were 20 European heritage items located at the airport site and an additional 22 heritage items located within the surrounding area. No known European heritage items were located within the Experience Centre and Site Office area. Heritage items identified within the construction footprint were appropriately surveyed, archived and removed and/or demolished as detailed in Section 5.3. This includes the relocation of the identified cemeteries. The former locations of these heritage items is shown in Figure 2 and Table 9,.

None of the European heritage items identified within the airport site were listed on the World Heritage List, National Heritage List or Commonwealth Heritage List.

No European heritage items of State significance were identified within the airport site.

Appropriate requirements for additional awareness and vigilance in the areas of known previous heritage items are included in Section 7.





**Figure 2: Former Locations of European and Other Heritage Items Plan**

**Table 9: Former European Heritage Items Within the Airport Site and Associated Site**

Item (EIS Ref)	Former Location	Description	Significance
Pennell's property (AS1)	2170 Elizabeth Drive, Badgerys Creek	Pennell's property is likely to contain subsurface remains of an early farm homestead	Local
Gardiner Road farm complex (AS2)	5 Gardiner Road, Badgerys Creek	Gardiner Road farm complex comprises an early 20 <sup>th</sup> century farm cottage and outbuildings	Local
Badgerys Creek Public School (AS3)	Corner of Pitt Street and Badgerys Creek Road, Badgerys Creek	Badgerys Creek Public School is a small rural school containing elements from the early 20 <sup>th</sup> century. The school has been damaged by vandalism following its closure in 2014.	Local
Badgerys Creek butchery (AS4)	Lot 51A Badgerys Creek Road, Badgerys Creek	Badgerys Creek butchery was one of two retail outlets in Badgerys Creek and had been operating for over a hundred years prior to demolition in the 1990s.	Local
Badgerys Creek post office (AS5)	Lot 52 Badgerys Creek Road, Badgerys Creek	Badgerys Creek post office operated between 1894 and 1989. No surface elements of the post office remain; however, subsurface remains are likely.	Local
Saw pit (AS6)	61 Badgerys Creek Road, Badgerys Creek	Although marked on the 1859 map of Luddenham, there is very little observable evidence of the saw pit due to overgrowth and use of the site as a dam.	Local
Badgerys Creek Uniting Church and cemetery (AS7)	15 Pitt Street, Badgerys Creek	Badgerys Creek Uniting Church was the first formal place of worship at Badgerys Creek, opening in 1898 followed by the cemetery in 1927. The church was removed from the site in the early 1990s. The cemetery has two marked graves and could contain further unmarked graves.	Local (Commonwealth)
St John's Anglican Church and cemetery (AS8)	30 Pitt Street, Badgerys Creek	St John's Anglican Church was built in the early 1900s. The church was removed or demolished after 1992. The cemetery contains at least 27 graves, which the church yard retains a small monument comprising a plaque, small brick base and corrugated iron roof.	Local
Braeburn homestead (AS9)	55 Longleys Road, Badgerys Creek	Braeburn was a farm homestead circa 1910. The homestead and associated shed were demolished in the late 1990s.	Local
Orange Hill homestead (AS10)	5 Jagelman Street, Badgerys Creek	Orange Hill was a farm homestead thought to be a predecessor to Braeburn. Two wells and a number of subsurface sandstone bricks were identified by test excavation at the site.	Local
Vicary's Winery (AS11)	1935 The Northern Road, Luddenham	Vicary's Winery was a farm property in the late 19 <sup>th</sup> century. The site features a slab homestead circa 1860s and woolshed circa 1880s. The site was converted to a dairy and vineyard in the early 20 <sup>th</sup> century.	Local

Item (EIS Ref)	Former Location	Description	Significance
Well (AS12)	1972 The Northern Road, Luddenham	The undated sandstone well sits within a more recently constructed homestead. The presence of such a well is rare in the local area.	Local
The Northern Road alignment within the airport site (AS13)	The Northern Road, Luddenham	The Northern Road is a very early road alignment. The route is recorded in an edition of the <i>Sydney Gazette</i> dated 1821 and a map of Bringelly dated 1834. The alignment of the Northern Road has deviated in some areas of the airport site since that time.	Local
Anschau Vineyard, Steinberg and grave(s) (AS14)	1845-1875 The Northern Road, Luddenham	Anschau Vineyard operated from the late 1800s. No evidence of the vineyard remains; however, blacksmith tools and remains of a homestead has been identified. A possible grave suspected to belong to a member of the Anschau family is also present at the site.	Local
St Francis Xavier Church and cemetery (AS15)	1966 The Northern Road, Luddenham	St Francis Xavier Church was built in 1912 while it is probable that the associated cemetery was established earlier. The contents of the church and graves were relocated to a new site at Greendale in the 1990s.	Local
Jackson Road cottage (AS16)	Lot 2 Jackson Road, Luddenham	Jackson Road hosted a farm cottage and several ancillary structures circa 1890. The cottage and structures remain at the site.	Local
Badgerys Creek Road alignment within the airport site (AS17)	Badgerys Creek Road, Badgerys Creek	Badgerys Creek Road alignment has been noted on maps since the 1850s and has not changed substantially since that time.	Local
Spredenber (AS18)	55 Longleys Road, Badgerys Creek	Spredenber features in a map of Luddenham Estate dated 1859 with a house visible in an aerial photograph dated 1947. The site is overgrown, confounding validation of its heritage.	Unknown
Howe residence (AS19)	Corner Badgerys Creek Road and Longleys Road, Badgerys Creek	The Howe residence is thought to have been occupied from the early 19 <sup>th</sup> century. Potential homestead remains were identified at the site including wooden posts, bricks, corrugated iron and a potential well site. Refer to the Archival Record of European Heritage Items Report for more information.	Local
Part McGarvie Smith University Farm (AS20)	124 Elizabeth Drive, Badgerys Creek	The McGarvie Smith University Farm is considered to have heritage significance for its historic, associative and technical values. The farm was established as a place to teach animal husbandry to veterinary students at the University of Sydney and has associations with Sir Frederick Tout.	Local

Note: highlight denoting within the construction footprint of works covered by this CEMP, however as noted above, all items were removed prior to construction commencing.



## 5.2 Greater Blue Mountains World Heritage Area

The Greater Blue Mountains World Heritage Area (**GBMWA**) constitutes one of the largest and most intact tracts of protected bushland in Australia. The GBMWA is included on both the World Heritage List and the National Heritage List and is therefore a matter of national environmental significance under the EPBC Act.

The GBMWA was inscribed on the United Nations Educational, Scientific and Cultural Organisation (**UNESCO**) World Heritage List in 2000 for its outstanding universal value, including representative examples of the evolution of Eucalyptus species and diversity of habitats and plant communities. It also has other important values including recreation, tourism, wilderness, scenic, cultural heritage, scientific and aesthetic values.

There is seven kilometres between the airport and the closest point of the Greater Blue Mountains World Heritage Area, and therefore it is not expected that construction of the airport would result in any direct or indirect impacts to the Greater Blue Mountains World Heritage Area.

A portion of the Greater Blue Mountains World Heritage Area fronts the Nepean River downstream of its confluence with Duncan's Creek. The Duncan's Creek catchment only covers approximately 11 per cent of the Airport Site and the best-practice water quality control measures proposed for construction of the airport site means there is very low potential to impact water quality in the creek and Nepean River. The remainder of the site discharges to the South Creek catchment which joins the Nepean River downstream of the Greater Blue Mountains World Heritage Area. Refer to the Soil and Water CEMP for more information.

Potential indirect impacts were assessed and considered noise, air quality and visual amenity from aircraft overflights, lighting and traffic. The assessment found that the impacts from the proposed airport would not have a significant impact on the World Heritage and other values of the GBMWA.

As the GBMWA is located approximately seven kilometres from the airport site at its closest point, no direct impacts are expected on the GBMWA.

## 5.3 Additional Works Completed Post - EIS

The following sections provide details regarding additional works that have been completed on the Airport Site since the completion of the EIS with regards to European and Other Heritage management.

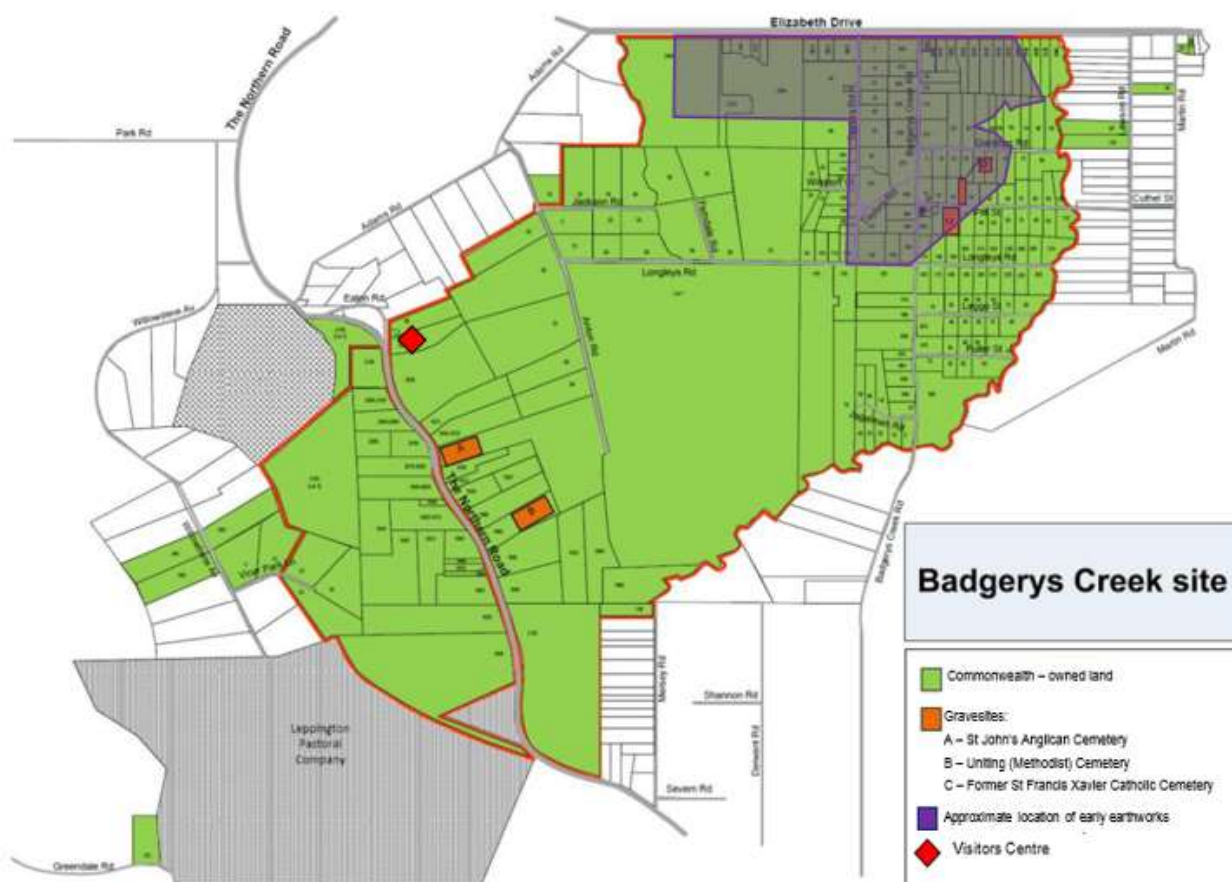
### 5.3.1 Cemeteries Relocation Plan

A Cemeteries Relocation Management Plan (**CRMP**) for the Airport Site was completed in 2017. The CRMP was prepared to address the relevant Airport Plan conditions as provided for in Section 3.11.2 of the Airport Plan Condition 3 which required that the CRMP addresses the following:

- Preparatory Activities to assist with determining the scope of the process involved in relocating the human remains located in the Identified Gravesites;
- The disinterment of the remains at the Identified Gravesites; and
- The reinterment of these remains at another cemetery or other cemeteries.

The CRMP included the preparatory, disinterment and reinterment activities associated with the relocation of gravesites. A map of the WSA site showing the location of the Identified Gravesites is provided in Figure 3.

Cemeteries relocation has been completed in accordance with the CRMP. Due to the personal nature of the information contained in the CRMP, it was not published.



**Figure 3: Former Gravesite Location Plan**

## 5.3.2 Archival Record of European Heritage Items Report

### 5.3.2.1 Background

As part of site preparation activities required to be undertaken before commencement of construction of the Stage 1 Airport Development, the removal of these European heritage items from the airport site was required. This included implementation of mitigation and management measures such as further archaeological investigations, archival recording, creating an inventory of moveable items, cultural planting investigations, identification of structures that could potentially be relocated, relocation of remains located in grave sites (refer to Section 5.4) and the staged demolition of European heritage structures.

An archival record of European heritage items report covers the archival recording of six European heritage sites. These are the Gardiner Road farm complex - Homestead and outbuildings, the Badgerys Creek Public School, the Vicary's Winery and Woolshed, the Jackson Road cottage, the Badgerys Creek Uniting Cemetery, and the St John's Anglican Cemetery. One site identified as 'The Well' was found to not have the heritage significance that was first thought it had once the archival recording commenced on the site.

### 5.3.2.2 Archival Recording

There were several stages to the archival recording of each European heritage item. In 2015, a preliminary survey was undertaken as part of the non-Aboriginal Heritage Assessment to identify items of potential heritage significance. These surveys included extensive photographic archival recording of items that were later identified as meeting the threshold of Commonwealth heritage significance.

One of the recommendations of the non-Aboriginal Heritage Assessment was to archive and record each item of built heritage. By the time of archival recording in 2017, many of these properties had substantially deteriorated. The photographs undertaken in 2015 were therefore useful in demonstrating this deterioration together with the archival photographs taken in 2017.

Additional research was undertaken on each of the identified properties and expanded to include ownership and land-use information. This additional research established through-lines to other items in the area, such as the school and cemeteries.

Following the research and using the 2015 photographs as a baseline, additional pedestrian and photographic surveys were undertaken in 2017.

Archival recording was undertaken at seven European heritage sites. These were:

1. Gardiner Road Farm Complex, 80-90 Gardiner Road, Badgerys Creek. Archival recording was undertaken on the cottage and huts, cow shed, byre and outbuildings. Archival recording was not undertaken on the 1960s house, sleep out and garage, Lysaght silo, water stand on tank or poultry sheds.
2. Badgerys Creek Public School, 10 Pitt Street, Badgerys Creek. Archival recording was undertaken on the library, old cottage and staff room. Archival recording was not undertaken on the classroom block, washroom or hall.
3. Vicary's Winery, 1935 The Northern Road, Luddenham. Archival recording was undertaken on the 1860s slab homestead and time capsule (which was removed prior to demolition), train carriage, woolshed (former dairy) and cow bails.
4. Well, 1972 The Northern Road, Luddenham.
5. Jackson Road Cottage, 10 Jackson Road, Luddenham. Archival recording was undertaken on the 1890 farm cottage building.
6. Badgerys Creek Uniting Cemetery, 15 Pitt Street, Badgerys Creek.
7. St John's Anglican Cemetery, 30 Pitt Street, Badgerys Creek.

The archival recording methodology is based on guidance detailed by the of (DPE) in How to Prepare Archival Records of Heritage Items (1998) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006).

The intent of the archival recording was to ensure that the history and environment of each structure can be retained for future reference and research. Photographic records and measured drawings of existing features contribute to the heritage significance of each item. The record was prepared for the original buildings within the context of their landscape setting, local environment and associations with other buildings and features.

### **5.3.2.3 Photographic Records**

For each European heritage site, the photographs have been arranged according to the following categories:

- Relationship between features and other relevant landscape features; and
- Detail, features and construction.

Photographs were taken of all European heritage items in 2015 as part of an initial survey of the airport site and again in 2017 as part of a detailed photographic survey. The subjects of the photographs varied between each item but were broadly focused on any important heritage elements of the item, identifying characteristics and important fabric. Spatial relationships between significant heritage features were also captured where applicable, the photographic plans for each site can be used to identify these.

Photographs were also taken during the staged demolitions of heritage items except for the relocation works related to the two cemeteries and The Well. The two cemeteries were relocated as part of a separate Cemeteries Relocation Management Plan process. As archival work commenced at The Well at 1972 The Northern Road it became apparent that heritage significance was not present and that an archival record detailing the demolition works was not required.

#### **5.3.2.4 Inventory of Moveable Heritage Items**

Individual items which are part of a heritage item make an important contribution to the heritage significance of the item or may have heritage significance. These may include tools of the trade and machinery. These are known as “moveable items”.

The NSW Department of Education conducted an inventory of moveable heritage items at the Badgerys Creek Public School in 2014. The school monument was considered an item of significance and was relocated by the NSW Department of Education to the Luddenham Public School. This was removed prior to the preparation of the archival record for the school.

In 2015, RPS Group prepared heritage protocols for two of the European heritage sites, the Badgerys Creek Public School and the Gardiner Farm complex. This report identified consideration to the relocation of two structures should be considered, the Badgerys Creek Public School library and the Badgerys Creek Public School old cottage.

The 2015 heritage protocols report also recommended the dismantling or staged demolition including archival recording for the Badgerys Creek Public School staff room, Gardiner Road farm complex cottage (including huts), Gardiner Road farm complex cow shed, Byre and Outbuildings.

The Badgerys Creek Public School classroom block, washroom and hall and Gardiner Road farm complex 1960s house, sleep-out and garage, Lysaght silo, water tank on stand and poultry sheds could be altered or removed without archival recording being required.

No additional items were identified for the inventory of moveable heritage items as part of the archival recordings.

#### **5.3.2.5 Staged Demolition**

To record potential construction techniques, original fabric and other information, staged demolitions were undertaken at the following four European heritage sites:

- Gardiner Road farm complex (detail as per archival recording), Gardiner Road, Badgerys Creek;
- Badgerys Creek Public School, Pitt Street, Badgerys Creek;
- Vicary's Winery, 1935 The Northern Road, Luddenham; and
- Cottage at 10 Jackson Road, Luddenham.

Using the historical information and previous photographs, the RPS team gave direction to the demolition crew to carefully remove accretions, wall linings, etc. from each structure to gain insight and additional historical information about each item. This includes records of original finishes, earlier configurations, profiles of earlier structures, positions of earlier openings, and construction technologies used.



## 6 European and Other Heritage Aspects & Impacts

The potential for European and Other Heritage impacts was considered in chapter 20 of the EIS and has been summarised in Section 6 of this CEMP. The heritage items located within the construction footprint covered by this CEMP are summarised in Table 10.

Since the completion of the environmental impact assessment associated with the EIS, archival recording and demolition of all European and Other Heritage Items within the Airport Site Construction Impact Zone (**CIZ**), including of the graves and gravestones, has been completed and reports prepared accordingly (refer to Section 5.3).

The remaining aspects and potential impacts are those associated with the unexpected finds of both surface and sub-surface items. A risk assessment has been undertaken for the associated risks, with appropriate mitigation measures and controls included in Section 7.

**Table 10: European and Other Heritage Sites Within the Construction Footprint**

Site name	Ref	Significance	Type of harm	Degree of harm	EIS Recommended mitigation measures
Pennell's property	AS1	Local (Commonwealth)	Direct	Total removal of site	EH03, EH04, EH07, EH12
Gardiner Road farm complex	AS2	Local (Commonwealth)	Direct	Total removal of site	EH03, EH04, EH07, EH12
Badgerys Creek Public School	AS3	Local (Commonwealth)	Direct	Total removal of site	EH03, EH04, EH07, EH12
Badgerys Creek butchery	AS4	Local (Commonwealth)	Direct	Total removal of site	EH03, EH04, EH07, EH12
Badgerys Creek post office	AS5	Local (Commonwealth)	None	No Impact from works covered by this CEMP	EH03, EH04, EH07, EH12
Badgerys Creek Uniting Church and cemetery	AS7	Local (Commonwealth)	Direct	Total removal of site	EH03, EH04, EH07, EH12
St John's Anglican Church and cemetery	AS8	Local	Direct	Total removal of site	EH03, EH04, EH07, EH12
Badgerys Creek Road alignment within the airport site	AS17	Local (Commonwealth)	Direct	Partial removal of road within construction footprint.	EH03, EH04, EH07, EH12

## **6.1 Environmental Risk Assessment**

A risk assessment has been undertaken as part of the CEMP and in accordance with Environmental Aspects, Impact and Risk Procedure (Appendix G of the SEMF). The parts of the overall risk assessment relevant to European and Other Heritage have been extracted and summarised in Table 11 apply to all phases of works that the Construction Plan authorises.

The identification of construction activities and associated impacts that could eventuate during construction of the Project is central to the selection of appropriate environmental safeguards.

The risk management process involved an assessment of all specific Project activities/aspects in or near environmentally sensitive areas and resulted in the development of a list of environmental risks (effects and impacts) and a corresponding risk mitigation strategy and risk ranking. The identification of risks included a review of the works, and review of the environmental risks identified by the EIS. The mitigations in the risk assessment align with the EIS mitigation measures.

**Table 11: European and Other Heritage Risk Assessment**

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
06	BEC		Potholing / service locating and trenching	Uncovering previously unknown heritage items	Damage/loss to previously unknown heritage items, loss of history	Low (9)	EH_02 EH_03 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Soil and Water CEMP</li> <li>• Complaints Procedure</li> <li>• Induction</li> <li>• ESCP</li> <li>• Dial before you dig plans (DBYD)</li> <li>• Service Location Plans</li> <li>• ECM</li> <li>• Aboriginal Topsoil Protocol</li> </ul>
07	BEC	Site compound establishment (continued)	Potholing / service locating and trenching (continued)	Disturbance of human remains	Disturbance of human remains	Low (9)	EH_10 EH_12 EH_13 EH_14	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP, Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Cemetery Relocation Management Plan</li> <li>• EWMS</li> <li>• Induction</li> <li>• ECM</li> </ul>
08	BEC	Clearing and grubbing	Topsoil stripping throughout alignment	Damage to heritage	Damage to known heritage items, loss of history	Low (9)	EH_02 EH_03 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
									<ul style="list-style-type: none"> <li>• EWMS</li> <li>• Soil and Water CEMP</li> <li>• Complaints Procedure</li> <li>• Induction</li> <li>• ESCP</li> <li>• ECM</li> </ul>
09	BEC			Damage to heritage	Inadvertent damage to sub-surface remnants of former heritage sites	Low (9)	EH_10 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP,</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Archival record of European heritage items report</li> <li>• EWMS</li> <li>• Induction</li> <li>• ECM</li> </ul>
10	BEC	Earthworks	Excavation	Vibration damage to nearby heritage items	Damage/loss to previously unknown heritage items, loss of history	Low (9)	EH_02 EH_03 EH_12 EH_13 Vibration monitoring	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Soil and Water CEMP</li> <li>• Complaints Procedure</li> <li>• Induction</li> <li>• ESCPs</li> <li>• ECM</li> </ul>
11	BEC	Earthworks	Excavation	Damage to heritage	Inadvertent damage to sub-surface remnants of	Low (9)	EH_10 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP,</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
					former heritage sites				<ul style="list-style-type: none"> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Archival record of European heritage items report</li> <li>• EWMS</li> <li>• Induction</li> <li>• ECM</li> </ul>
12	BEC	Earthworks	Excavation	Disturbance of human remains	Disturbance of human remains	Low (9)	EH_10 EH_12 EH_13 EH_14	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP,</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Cemetery Relocation Management Plan</li> <li>• EWMS</li> <li>• Induction</li> <li>• ECM</li> </ul>
13	BEC	Earthworks (continued)	Stockpiling materials	Damage to heritage	Damage to known heritage items, loss of history	Low (9)	EH_02 EH_03 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Soil and Water CEMP</li> <li>• Complaints Procedure</li> <li>• Induction</li> <li>• ESCP</li> <li>• ECM</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
14	Terminal	Detailed Civil works	Incidents	Site requirements	Failure to report unexpected find	Low (9)	EH_13 EH_14	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Induction</li> </ul>
15	Terminal	Detailed Civil works	Detailed excavation including Trenching, footings and in ground tanks	Uncovering previously unknown heritage items	Damage/loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Induction</li> </ul>
16	Terminal	Detailed Civil works	Piling Works	Inadvertent damage to sub-surface remnants of former heritage sites	Damage/loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Induction</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
17	Terminal	External Works	Landscaping works	Uncovering previously unknown heritage items	Damage/loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Induction</li> </ul>
18	ACP	Civil works	Piling or excavation works for drainage, and utilities work trenching	Incidents - Uncovering previously unknown heritage items	Failure to report unexpected find	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Biodiversity CEMP</li> <li>• EWMS, Induction</li> </ul>
19	ACP	Civil works	Piling or excavation works for drainage, and utilities work trenching	Inadvertent damage to sub-surface remnants of former heritage sites	Damage/loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Biodiversity CEMP</li> <li>• EWMS, Induction</li> </ul>
20	ACP	Civil works	Use of vibratory rollers during paving/asphalting	Vibration damage to nearby heritage items	Damage/loss to previously unknown heritage items, loss of history	Low (9)	EH_02 EH_03 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Noise and Vibration CEMP</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
									<ul style="list-style-type: none"> <li>• Complaints Procedure, Induction</li> <li>• ESCPs</li> <li>• ECM</li> <li>• Vibration monitoring</li> </ul>
21	ACP	Civil works	Piling or excavation works for drainage, and utilities work trenching	Incidents - Uncovering previously unknown heritage items	Failure to report unexpected find	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Biodiversity CEMP</li> <li>• EWMS</li> <li>• Induction</li> </ul>
22	LCB	Civil Works	Incidents	Site Requirements	Failure to report unexpected find	Low (9)	EH_13 EH_14	Low (9)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>
23	LCB	Civil Works	Earthworks	Uncovering previously unknown heritage items	Damage / loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>



Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
24	LCB	Civil Works	Excavations and Trenching (Services and stormwater)	Uncovering previously unknown heritage items	Damage / loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>
25	LCB	Civil Works	Landscaping works	Uncovering previously unknown heritage items	Damage / loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>
26	M12 on Airport	Site Establishment	Installation of ERSED controls	Subsurface objects/sites/ human remains	Damage of unknown heritage items, loss of history, cultural value loss and generational sensitivities	Low (9)	EH_02 EH_03 EH_12 EH_13	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP, Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• EWMS</li> <li>• Soil and Water CEMP</li> <li>• Complaints Procedure</li> <li>• Induction</li> <li>• Area Erosion and Sedimentation Control Plans (ESCPs)</li> <li>• Environmental Control Map (ECM)</li> <li>• Unexpected Finds Protocol</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
27	Fuel Farm	Detailed civil works	Incidents	Site requirements	Failure to report unexpected find	Low (10)	EH_13 EH_14	Low (6)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS Induction</li> </ul>
28	Fuel Farm	Detailed civil works	Detailed excavation including Trenching, footings and in ground tanks	Uncovering previously unknown heritage items	Damage/loss to previously unknown heritage items, loss of history	Medium (13)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS Induction</li> </ul>
29	Fuel Farm	Detailed civil works	Piling Works	Inadvertent damage to sub-surface remnants of former heritage sites	Damage/loss to previously unknown heritage items, loss of history	Medium (13)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS Induction</li> </ul>
30	Fuel Farm	External works	Landscaping works	Uncovering previously unknown heritage items	Damage/loss to previously unknown heritage items, loss of history	Medium (13)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• Biodiversity CEMP</li> <li>• EWMS Induction</li> </ul>

Ref	Package	Activity	Construction Aspect	Environmental Aspect	Potential Impact	Risk level pre-mitigation	Mitigation measure <sup>1</sup>	Risk level post-mitigation	Management tools
31	Construction of Permanent Utilities and Ancillary Buildings	Site Establishment	Installation of ERSED controls	Uncovering previously unknown heritage items	Damage / loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>
32	Construction of Permanent Utilities and Ancillary Buildings	Civil works	Earthworks, Building and Utility infrastructure construction	Uncovering previously unknown heritage items	Damage / loss to previously unknown heritage items, loss of history	Low (10)	EH_13 EH_14	Low (10)	<ul style="list-style-type: none"> <li>• Aboriginal Cultural Heritage CEMP</li> <li>• European and Other Heritage CEMP</li> <li>• Heritage awareness training</li> <li>• EWMS</li> <li>• Induction</li> </ul>

## 7 Environmental Control Measures

Mitigation and management measures that will be implemented during construction to address impacts on European and other heritage are detailed in Table 12 and are consistent with those provided in Tables 28-14 and 28-15 in Chapter 28 of the EIS, as per Condition 12 (Section 3.11.2) of the Airport Plan. Text in grey indicates completed scope or mitigation action.

The relevant control measures will be included in the site-specific Environmental Work Method Statement (EWMS) and Environmental Control Map (ECM) – refer to Section 4.2 of the SEMF for further detail.

**Table 12: Environmental Control Measures**

Ref.	Measure / Requirement	When to Implement	How to Implement	Responsibility for Implementation	Reference
<b>BEC: Bulk Earthworks Contract    EEW: Early Earthworks    MI: Material Importation    All Contractors: BEC, MI, TSS, ACP, LCB, M12, Utilities and other contractors as delegated by WSA</b>					
<b>European and Other Heritage Management</b>					
EH_01	The following measures are to be implemented in the manner identified in Chapter 6 of the Appendix O of the EIS for the respective European and Other heritage items (i.e. not all measures will apply to each item) under the supervision of a suitably qualified archaeologist:	Preparatory activities Pre-construction Construction	Refer to Appendix O of the EIS	WSA and All Contractors	EIS Table 28-15
EH_02	All known European and Other Heritage items within the Project disturbance area have been removed prior to construction activities.	Completed	Implementation of the Procedure to protect non-Aboriginal heritage sites within the Project disturbance area – Refer to Section 8.1	N/A	Best Practice
EH_03	Protection of any known European and Other Heritage items located outside of the Project disturbance area, however within proximity to the construction activities (where appropriate).	Completed	Consider implementation of the Procedure to protect non-Aboriginal heritage sites outside the Project disturbance area – Refer to Section 8.2	N/A	Best Practice
EH_04	Further targeted archaeological investigation will be undertaken to record subsurface remains and infer	Completed	Further targeted archaeological investigation have been undertaken as	Infrastructure Department	EIS Table 28-15

Ref.	Measure / Requirement	When to Implement	How to Implement	Responsibility for Implementation	Reference
<b>BEC: Bulk Earthworks Contract    EEW: Early Earthworks    MI: Material Importation    All Contractors: BEC, MI, TSS, ACP, LCB, M12, Utilities and other contractors as delegated by WSA</b>					
	the layout, occupants and activities of certain European heritage places		part of preparatory activities and pre-construction works.		
EH_05	Archival recording will be undertaken, including photographic records and measured drawings in their local context for future reference, having regard to the guidelines How to Prepare Archival Records of Heritage Items (NSW Heritage Office 1998) and Guidelines for Photographic Recording of Heritage Items Using Film or Digital Captures (NSW Heritage Office 2006)	Completed	Archival recording has been undertaken as part of preparatory activities and pre-construction works. Refer to the WSA – Archival record of European heritage items report (refer to Section 5).	Infrastructure Department	EIS Table 28-15
EH_06	An inventory of moveable items will be prepared to record information such as the location, designer, creator, use and owner of items such as tools of trade or machinery	Completed	An inventory of moveable items has been prepared / completed by the Infrastructure Department. Western Sydney Airport – Archival record of European heritage items report (refer to Section 5)	Infrastructure Department	EIS Table 28-15
EH_07	Cultural plantings will be investigated to identify and collect samples of plant varieties that have local or historic botanical significance, including plant varieties that are characteristic of the area or not otherwise broadly planted. A list of relevant identified plant species would need to be identified and consideration given to future landscaping (refer to the Visual and Landscaping CEMP). Other considerations include weed mitigation and not attracting birdlife.	Prior to commencement of Main Construction Works outside the EEW or Experience Centre and Site Office area.	Plantings to be assessed by appropriately experienced landscape specialist.	BEC Design Team	EIS Table 28-15
EH_08	Options will be explored for potential relocation of identified European heritage structures to preserve intact surface structures	Completed	Badgerys Creek School bell was relocated and bequeathed to local School (Refer to the Archival Record of European Heritage Items Report for more information)	Infrastructure Department	EIS Table 28-15

Ref.	Measure / Requirement	When to Implement	How to Implement	Responsibility for Implementation	Reference
<b>BEC: Bulk Earthworks Contract    EEW: Early Earthworks    MI: Material Importation    All Contractors: BEC, MI, TSS, ACP, LCB, M12, Utilities and other contractors as delegated by WSA</b>					
EH_09	Identified European heritage structures will be demolished in a staged and careful manner that reveals information about their construction, renovation, finishes and so on, which would be recorded	Completed	Identified European heritage structures were demolished in a staged and careful manner.	Infrastructure Department	EIS Table 28-15
EH_10	Protection of any subsurface items / structures not removed during the survey and salvage works for the heritage items, particularly items associated with the following (refer to Section 5): AS1 - Pennell's Property AS2 - Gardiner Road farm complex AS3 - Badgerys Creek Public School AS4 - Badgerys Creek butchery AS7 - Badgerys Creek Uniting Church and Cemetery AS8 – St Johns Anglican Church and Cemetery AS17 - Badgerys Creek Road Alignment	Completed	The former location of identified heritage items is to be included on an ECM.  Prior to works commencing in the vicinity of the former location of heritage items, all workers on site are to be informed of the potential presence of sub-surface items / structures that were not completely removed during the survey and salvage works. In the event of any potential heritage finds, the unexpected finds protocol is to be implemented.	All Contractors	Good practice
<b>Cemeteries Relocation</b>					
EH_11	A Cemeteries Relocation Management Plan will be submitted for approval by the Infrastructure Minister or an SES Officer in the Infrastructure Department prior to the disinterment (removal) and reinterment (relocation) of grave sites from the airport site.	Completed	A CRMP has been prepared and cemeteries have been relocated as part of preparatory activities	Infrastructure Department	EIS Table 28-15
<b>Heritage Awareness</b>					
EH_012	Heritage awareness training will be provided to all works involved in site preparation and construction of the proposed airport.	Preparatory activities Pre-construction Construction	Undertake site heritage inductions	All Contractors	EIS Table 28-15
<b>Unexpected Finds</b>					

Ref.	Measure / Requirement	When to Implement	How to Implement	Responsibility for Implementation	Reference
<b>BEC: Bulk Earthworks Contract    EEW: Early Earthworks    MI: Material Importation    All Contractors: BEC, MI, TSS, ACP, LCB, M12, Utilities and other contractors as delegated by WSA</b>					
EH_13	A procedure will be developed and followed if European heritage items are discovered during construction.	Pre-construction	WSA Unexpected Finds Protocols Procedure (SEMF Appendix I)	All Contractors	EIS Table 28-15
EH_14	Recognising the possibility of unmarked graves occurring, a procedure will be developed and followed if human remains are discovered at the airport site during construction.	Pre-construction	WSA Unexpected Finds Protocols Procedure (SEMF Appendix I)	All Contractors	EIS Table 28-15
<b>Cultural Significance of the Airport Site</b>					
EH_15	An oral history will be prepared as a measure to preserve the heritage value of the airport site. This could include descriptions and reminiscences by people closely associated with the site.	Construction	A European oral history will be prepared.	Infrastructure Department	EIS Table 28-15
			Oral History Plan requirement only applies to unexpected finds. Contractors to provide information and documentation.	WSA All Contractors	
EH_16	The European and Other Heritage values of the site will be recognised in the detailed design of the airport, for example, through onsite archiving and curation of heritage items, and public display materials.	As an ongoing and integrated consideration during the design development process.	Design development process.	BEC Design Team	EIS Table 28-15

## **8 European & Other Heritage Sites Management**

### **8.1 Unexpected Finds Protocol**

All Contractors will be responsible for implementing the WSA Unexpected Finds Protocol (SEMF Appendix I (WSA00-WSA-00000-EN-PRO-000001)) which details measures to be undertaken if European and other heritage not previously recorded at the airport site are detected during Main Construction Works.

### **8.2 Outside the Project Disturbance Area**

Where appropriate, the boundaries of heritage sites that are located outside of, but near, the Stage 1 Airport Development will be clearly marked with star pickets/pegs and high visibility flagging tape to ensure that no impacts will occur to these sites.

In addition, all employees, contractors and sub-contractors shall:

- Be made aware of the locations of these sites during site induction;
- Seek permission to travel across areas outside of the disturbance areas from the Site Manager
- Be provided within access to maps, with a description of the site and site coordinates available to all employees, contractors and sub-contractors as needed; and
- Where sites cannot be identified or located, advice shall be sought from the Project archaeologist.

### **8.3 Contingency Plan Disturbance Area is Damaged**

If heritage items outside of the Stage 1 Airport Development are damaged, WSA environmental incident management procedures, and WSA-engaged Contractor's incident management procedures will be implemented.

In accordance with clause 4-05 of the AEPR (Duty to give notice of cultural, etc discovery), if WSA discovers an object, species or ecological community that indicates that the site of the undertaking, or other work, is a site of previously unrecognised significance:

- (a) for local biota or the ecosystems and habitats of native species; or
- (b) of the kind mentioned in paragraph 132(1)(c) or (d) of the Airports Act;

Contractors will give notice to WSA and WSA will notify the Airport Environment Officer.

If an incident occurs that results in actual or potential impacts on known heritage items and/or archaeological items that are discovered unexpectedly, the WSA Environment Manager will be notified immediately who in turn will notify the Infrastructure Department in accordance with Section 8.5.1 and Section 8.5.2. Incident reporting and documentation should be made in accordance with SEMF Section 6 and SEMF Appendix J Environmental Incident Classification and Reporting Procedure.



## **9 Roles and Responsibilities**

The key environmental management roles and responsibilities for the construction phase of the work are detailed in Section 4.4 of the SEMF.

WSA will ensure enough resources are allocated on an ongoing basis to ensure effective implementation by both WSA and the responsible contractors.

The Airport Environment Officer (AEO) will be responsible for day-to-day regulatory oversight of the AEPR compliance at WSI after an Airport Lease is granted.

## **10 Environmental Inspection, Monitoring, Auditing and Reporting**

Monitoring, inspection, and auditing and reporting will be undertaken to measure the effectiveness of the implementation of this Plan, and to facilitate the continuous improvement of European and Other Heritage management.

General environmental monitoring, inspection, and auditing and reporting requirements are summarised in Section 8 of the SEMF.

A summary of the environmental inspection, monitoring, auditing and reporting requirements is provided below, with details of how they apply to European and Other Heritage management where applicable.

### **10.1 Environmental Inspections**

#### **10.1.1 WSA Environmental Inspections**

Environmental site inspections will be undertaken by the WSA Environment Manager (or delegate) on a monthly basis to evaluate the effectiveness of environmental controls implemented by the contractor.

The monthly site inspection is to include a visual check of all European and Other Heritage management control measures, including but not limited to the following:

- Review of current work activities and the applicable ECMs to ensure that the former location of identified heritage sites have been shown and are being considered during the works, given the likely higher chance of 'Unexpected Finds';
- Adherence to the restricted access and any exclusion zones established for the protection of any areas / items of heritage significance; and
- Ensuring that all site works remain within the designated CIZ.

The findings of the WSA site environmental inspection will be recorded on a WSA Site Environmental Inspection Checklist.

Refer to Appendix K of the SEMF for further details with regards to completing the Site Environmental Inspection Checklist.

#### **10.1.2 Contractor Environmental Inspections**

Regular site inspections will be undertaken to monitor compliance with this Plan at active work sites. Inspection results will be recorded, and the inspection log made available to the Infrastructure Department upon request. Any non-conformance or improvement opportunities associated with European and Other Heritage matters will be documented in the monthly report and discussed at the Environmental Coordination meeting.

More frequent site inspections by the person accountable for European and Other Heritage issues will be conducted onsite following the identification of any actual or potential unexpected finds.

The Contractor's Environmental Manager and/or Environmental Coordinators will undertake inspections in accordance with the Contractor Environmental Management Framework. The Contractor's Coordinators will record inspection findings on an inspection checklist form.

If any maintenance and/or deficiencies in environmental controls or in the standard of environmental performance are observed, they will be recorded on the checklist form. Records will also include details of any maintenance required, the nature of the deficiency, any actions required and an implementation priority.

### 10.1.3 Pre-start Inspection

Prior to the commencement of works on each shift, an inspection will be carried out by the relevant contractor and will include a check of relevant environmental controls and resources required to ensure effective operation and maintenance. This is to include an inspection of relevant European and Other Heritage management mitigation measures and controls where applicable. Works are not to commence unless inspections are found to be satisfactory.

The Foreman will undertake the pre-works inspections and record the findings.

## 10.2 European and Other Heritage Monitoring

General environmental monitoring requirements are set out in the AEPR and include the following:

- Monitoring must take place under the direction of an appropriately qualified person; and
- The results of the monitoring must be kept in a written record.

Specific European and Other Heritage monitoring requirements, including timing and responsibilities, are included in Table 13. One of the key monitoring requirements is compliance with unexpected finds protocol.

**Table 13: European and Other Heritage Monitoring Requirements**

Reference	Requirement	Timing	Responsibility
EH_M_01	Monitoring the effectiveness of European and Other Heritage management measures on site by way of observation of controls.	Pre-construction and during construction	All Contractors

Where a non-conformance or an improvement opportunity is identified, the non-conformance and improvement opportunity process described in SEMF Section 9 will be implemented.

### 10.3 Environmental Auditing

Refer to Section 8.2 of the SEMF for environmental auditing requirements, including internal WSA audits, independent audits and audits to be undertaken by contractors.

Auditing and subsequent reporting will be undertaken annually to ensure compliance with this European and Other Heritage CEMP and Airport Plan Conditions of Approval, as identified in Section 4 of this CEMP.

### 10.4 Environmental Reporting

General environmental reporting requirements are detailed in Section 8.3 of the SEMF.

In addition, a summary of reporting requirements required under this European and Other Heritage CEMP (including environmental reporting requirements required under the Airport Plan specific to the European and Other Heritage CEMP) is provided in Table 14.

**Table 14: European and Other Heritage Reporting**

Action	Scope	Timing / Frequency	Responsibility
Annual reporting	<p>Unless otherwise agreed in writing by an Approver, an annual report will be prepared and submitted to the Infrastructure Development in relation to compliance with the European and Other Heritage CEMP (Condition 47).</p> <p>In accordance with Condition 47 (2) WSA will publish each of the annual reports on its website within three months of the end of the period in respect of which the report was prepared, with evidence providing proof of the date of publication to the Secretary of the Department of Infrastructure, Transport, Regional Development and Communications with a copy to the Environment Department. The report must remain on the website for a period of at least 12 months.</p> <p>An annual report is also required to be prepared and managed in accordance with section 6.03 of the AEPR.</p>	As required	WSA Environment Manager
Compliance reporting	Undertaking monitoring as required by this European and Other Heritage CEMP. Contractor is to provide WSA with a monthly summary of all management measures / issues identified for the reporting period with regards to European and Other Heritage	Monthly	All Contractors Environment Manager
Complaints reporting	Recording of complaints and stakeholder interactions	As required	WSA Environment Manager WSA Community and Stakeholder Engagement Manager All Contractors
Environmental Site Register (required under the 6.02(3) of the AEPR)	Environmental Site Register to be kept and maintained to include written record of environmental conditions of the Airport and its environmental management generally	As required	All
General environmental inspection	Inspection of environmental management controls on site and sighting of site documentation as required by the WSA CEMP	At least weekly	WSA
General environmental inspection	Inspection of environmental management controls and site documentation as required by the WSA CEMP	As per Contractor environmental management system (at least weekly)	All Contractors
Reporting of non-conformances and improvement opportunities	The management and reporting requirements of environmental non-conformances and improvement opportunities will be in accordance with Section 8 of the SEMF.	As required	WSA All Contractor

## 10.5 Review of Approved Plans

As per the WSA EMS, review of all Approved Plans will be undertaken annually to ensure they continue to meet conditions set out in Section 3.11.2 of the Airport Plan (refer Condition 47). If the review identifies areas where the plan does not continue to meet the approval criteria for that Plan, a variation to the Approved Plan will be prepared and submitted for approval.

Under Condition 49 (4) of the Airport Plan, WSA is also required to review each Approved Plan at least every five years (from the date of approval). Findings of this review will be included in the Annual Report (refer Section 8.3 of the SEMF) and if needed, a variation to the Approved Plan will be prepared and submitted for approval.

Additionally, WSA may initiate reviews of Approved Plans at other times in response to improvement opportunities, non-conformances, and changes to scope of work or construction methodology or alterations to legal or contractual requirements.

Any changes identified and implemented through the variation and review process identified above will be communicated to relevant contractors through re-issue of the revised WSA Approved Plan and subsequent training and awareness (refer Section 4 of the SEMF).

## **10.6 Environmental Incidents and Complaints Management**

The management and reporting of environmental incidents shall be undertaken by the appropriate person as detailed in Section 6 of the SEMF.

All communications and complaints management will be implemented and managed in accordance with Section 7 of the SEMF and the CSEP.

# **11 Competence, Training and Awareness**

To ensure this European and Other Heritage CEMP is effectively implemented, each level of management is responsible for ensuring that all personnel reporting to them are aware of the requirements within. The WSA Environment Manager will coordinate the necessary and relevant environmental training in conjunction with other training and development activities.

All competence, training and awareness requirements will be implemented as detailed in Section 5 of the SEMF.

## 12 References

- AS/NZS ISO 14001: 2016      *Environmental management systems – Requirements with guidance for use*
- Charter for Places of Cultural Significance ('the Burra Charter') (Australia ICOMOS 1987)
- Commonwealth Department of Infrastructure and Regional Development, 2016. *Airport Plan (December 2016)*
- Commonwealth Department of Infrastructure and Regional Development, 2016. *Airport Plan Western Sydney Airport, Variation 2 (September 2021)*
- Commonwealth Department of Infrastructure and Regional Development, 2016. *Western Sydney Airport Environmental Impact Statement, 2016*
- Heritage Council of NSW, 2009. *Assessing Significance for Historical Archaeological Sites and 'Relics'*
- NSW Heritage Office, 2006. *Assessing Historical Association: A Guide to State Heritage Register Criterion*
- NSW Heritage Office, 2006. *Guidelines for Photographic Recording of Heritage Items Using Film or Digital Capture (NSW Heritage Office 2006)*
- NSW Heritage Office, 2006. *Photographic Recording of Heritage Items Using Film or Digital Capture*
- NSW Heritage Office, Department of Planning, 2006. *Historical Archaeology Code of Practice*
- NSW Heritage Office, 2001. *Assessing Heritage Significance*
- NSW Heritage Office, 2000. *Assessing Historical Association: A Guide to State Heritage Register Criterion B*
- NSW Heritage Office, 1998. *How to Prepare Archival Records of Heritage Items*
- NSW Heritage Office and NSW Department of Urban Affairs and Planning, 1996. *Archaeological Assessment Guidelines*
- NSW Heritage Office and NSW Department of Urban Affairs and Planning, 1996. *NSW Heritage Manual*
- WSA Unexpected Finds Protocol (SMEF Appendix I (WSA00-WSA-00000-EN-PRO-000001))