

# Construction Environmental Management Process Plan

Shared Path Bridge over Newcastle Road, Jesmond

1630

INTEGRATED MANAGEMENT SYSTEM



Sub-Plan Details							
Type of Do	Type of Document:         Construction Environmental Management Process Plan – Sub Plan			Sub Plan			
Sub-Plan Name:		Construction En	Construction Environmental Management Process Plan				
Issue Nº.		2.0	2.0				
Issue Date	:	01/11/2019	01/11/2019				
Next Revie	w Date:	01/11/2020	01/11/2020				
Sub-Plan D	Sub-Plan Developed By:						
Project De	tails						
Project Na	me:	Rankin Park to	Jesmond				
Project Nu	mber:	1630					
Address of	Project:	Jesmond NSW					
Principal C	ontractor:	Daracon					
Principal C	ontractor Addr	ess:					
Project Cli	Project Client: Roads and Maritime Services NSW						
Sub-Plan F	Review Control						
Issue Nº.	N°. Description of Changes to the Plan Date						
1.0	Initial Issue 18/09/2019						
2.0	Revised to correct clause numbers 01/11/2019			01/11/2019			
Document	Template Revis	sion Control					
Issue Nº.	Description of	f Changes to the Temp	late		Date		
1.0	Initial Approval				29/08/2017		
Sub-Plan	I						
Approval		Name	Position	Signature			
Document	Owner:		Environmental Site Representative				
Document	Approver:		Project Manager				
Sub-Plan Issue Control							
Insert docu	ument-controlle	Insert document-controlled copy number if printed and/or issued externally: 002					





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# 1 PURPOSE

This Construction Environmental Management Process Plan (CEMPP) has been developed with specific information to allow for effective management and control of the project. This plan has been developed taking into consideration the Integrated Project Management Plan (IPMP), Daracons Legal and Other Requirements including but not limited to relevant Acts, Regulations, Codes of Practice and Industry Standards / Guidelines.

In addition, the framework for this plan has been prepared to align with the Daracon Management System (DMS), AS/NZS & ISO Standards and Client requirements where applicable.

# 2 PROJECT OVERVIEW AND SCOPE

The project involves the construction of a new shared path bridge over Newcastle Road and associated works at Jesmond, within the City of Newcastle Local Government Area (LGA).

The scope of work covered by this IPMP involves the following specific activities:

- Site Establishment
- Vegetation clearing, including riparian vegetation, and topsoil stripping
- Earthworks, including excavation and filling
- Transportation of cut or fill material
- Drainage works
- Stockpiling of topsoil, vegetation and other construction materials
- Movement of heavy vehicles across exposed ground
- Construction of a new shared path bridge over Newcastle Road west of Steel Street;
- Ramps, stairs and retaining structures providing access to the new shared path bridge;
- Relocation of existing utilities including overhead electricity and underground water mains;
- Roadworks in Coles Street and Jesmond park to connect the new bridge to existing facilities;
- Roadworks for minor widening on the northern side of Newcastle road west of Steel Street;
- Removal of the existing mid-block pedestrian crossing and removal of the existing bus shelter
   and
- Miscellaneous works including erosion and sedimentation control, utility adjustments, the construction of earthworks, drainage, kerbs and/or gutters, pavement, safety barriers, concrete paving for the shared path, footpaths and driveways, pavement markings and vegetation works.

Other operations will be undertaken by Daracon that are considered normal in delivery of the above activities. Additional activities may also be realised at the request of the Client throughout the duration of the project.





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Other operations will be undertaken by Daracon that are considered normal in delivery of the above activities. Additional activities may also be realised at the request of the Client throughout the duration of the project.

See **Figure 1** outlining the Project location.





#### FIGURE 1 – SHARED PATH BRIDGE PROJECT LOCATION





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# **3 CEMPP REFERENCE DOCUMENTS**

#### 3.1 LEGISLATION

- Aboriginal & Torres Strait Islander Heritage Protection Act 1984;
- Biodiversity Conservation Act 2016;
- Biodiversity Regulation 2017;
- Biosecurity Act 2015;
- Biosecurity Regulation 2017;
- Contaminated Land Management Act 1997;
- Environmental Protection and Biodiversity Conservation Act 1999;
- Environmental Planning and Assessment Act 1979 No 203;
- Environmental Planning and Assessment Regulation 2000;
- Fisheries Management Act 1994;
- Heritage Act 1977
- NSW Local Government Act 1993;
- NSW Heritage Act 1977;
- NSW National Parks and Wildlife Act 1974;
- NSW Native Vegetation Act 2003;
- NSW Noxious Weeds Act 1993;
- NSW Water Management Act 2000;
- NSW Pesticides Act 1999;
- NSW Pesticides Regulation 2009;
- NSW Rural Fires Act 1997;
- NSW Threatened Species Conservation Act NSW
- NSW Waste Avoidance and Resource Recovery Act 2001;
- NSW Environmentally Hazardous Chemicals Act 1985;
- Protection of the Environment Operations Act NSW 1997;
- Protection of the Environment Administration Act NSW 1991;
- Protection of the Environment Operations (Clean Air) Regulation NSW 2002 and
- Newcastle Council Local Environmental Plan.

#### 3.2 STANDARDS, CODES OR GUIDELINES

- ANZACC Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration;
- Approved Methods for Sampling and Analysis of Air Pollutants in NSW;
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW;



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- AS/NZS 4801:2001 Occupational Health and Safety Management Systems;
- AS/NZS ISO 19011 Guidelines for quality and/or environmental management systems audits;
- AS 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites;
- Australian and NZ (AS/NZS) Standards;
- BS385 Evaluation and measurement for vibration in buildings
- Bunding and Spill Management Guidelines;
- DPI Fisheries "Why do fish need to cross the road? Fish passage requirements for waterway crossings";
- Environmental Management System Guidelines;
- Environmental Noise Management Assessing Vibration: A Technical Guideline;
- Environmental Protection Manual for Authorised Officers;
- EPA guidelines on contaminated land management (multiple documents);
- Equipment and Machinery Use in Bush Fire Prone Areas;
- Government Resource Efficiency Policy (GREP);
- Guideline for the Preparation of Environmental Management Plans;
- Interim Construction Noise Guideline;
- ISO9001:2015 Quality Management System;
- ISO14001:2015 Environmental Management Systems;
- Managing Urban Stormwater: Soils and Construction Volume 1, 4th Edition (*Bluebook*);
- Regulation of Open Burning in NSW;
- Roads & Maritime Services (RMS) Construction Guidelines;
- RMS Construction Noise and Vibration Guideline;
- Roads & Maritime Services Traffic Control at Worksites Manual;
- RMS Code of Practice for Water Management, the RMS Erosion and Sedimentation Procedure;
- RMS Technical Guidelines;
- SafeWork NSW Codes of Practice;
- SafeWork Australia Codes of Practice; and
- Waste Classification Guidelines;

## 3.3 PROJECT APPROVALS AND/OR LICENSING

The following approvals have been obtained by Roads and Maritime:

- EPBC Decision Notice dated October 2015 (confirming the RP2J project is a controlled action).
- Project Approval under Part 5.2 of the EP&A Act SSI 6888 granted by the minister for planning on 15 February 2019.







All necessary licences, permits and approvals required for Daracon's contracted works will be obtained and maintained as required throughout the life of the Project. Inspection and monitoring programs completed as part of this plan will ensure the control measures outlined in any of the above approvals, licenses or permits are complied with at all times.

#### 3.4 KEY CLIENT DOCUMENTS

The following Client documents have been identified as being important to ensure Daracon deliver the project safely, with minimal environmental impact and to specification.

Client Document Number and Name			
Document Number	Document Name		
Newcastle Inner City Bypass – Rankin Park to Jesmond Environmental Impact Statement (GHD, November 2016)			
Submissions and Preferred Infrastructure Report – Newcastle Inner City Bypass, Rankin Park to Jesmond (GHD, March 2018)			
Shared Path Bridge over Newcastle Road Project Environmental Management Plan (Aurecon, December 2018)			
NSW Department of Planning & Environment Minister's Conditions of Approval			
Department of the Environment and Energy (DoEl 2019)	E) - Commonwealth Controlled Action Approval (April		
QA Specification G1	Job Specific Requirements		
QA Specification G36	Environmental Protection		
QA Specification G38	Soil and Water Management		
QA Specification G40 Clearing and Grubbing			
QA Specification R44 Earthworks			
QA Specification Q6 Quality Management System (Type 6)			

#### TABLE 1 – KEY CLIENT DOCUMENTS

Where there are changes to the above document references, communication of changes that are applicable to this project will be communicated to all workers using a suitable means of communication as prescribed within this Sub-Plan.



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## 4 CONSTRUCTION ENVIRONMENTAL MANAGEMENT

This Construction Environmental Management Process Plan (CEMPP) and sub plans have been prepared to comply with the requirements of the NSW Minister for Planning's approval instrument and Conditions of Approval (CoA) specific to the project.

The environmental mitigation and management measures have been developed from review of information contained within the Submissions and Preferred Infrastructure Report (SPIR), Environmental Impact Statement (EIS) and RMS CEMPP, in order to comply with the Ministers Conditions of Approval established for the RP2J project.

This CEMPP has been developed and adopted in accordance with Daracon's Certified Environmental Management System under ISO14001:2015, Roads and Maritime QA Specifications G36, 38 & 40 and the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004).

This CEMPP meets the requirements of the environmental mitigation and management measures and outlines the following minimum requirements:

- Project details including activities to be undertaken;
- Specific mitigation measures and controls that can be applied onsite to avoid or minimise negative environmental impacts;
- Specific mechanisms for compliance with applicable policies, approvals, licences, permits, consultation agreements and legislation;
- Environmental management related roles and responsibilities of personnel;
- States objectives and targets for issues important to the environmental performance of the Project; and
- Outlines a monitoring regime to check the adequacy of controls as they are implemented during construction





# **5 CONDITIONS OF APPROVAL**

The Rankin Park to Jesmond Project proposal was subject to assessment and approval under the EP&A Act. The EPBC Act conditions directly reflect the EP&A Act conditions of approval. Subsequently, the NSW infrastructure Conditions of Approval (CoA) listed below in Table 2, detail the Commonwealth and State CoA's relevant to the CEMPP;

#### TABLE 2 – COA REQUIREMENTS FOR THE CEMPP

CoA	Requirement	Reference				
	Construction of Bridge 7 and its associated components are not subject to Part C and Part D of the Project Approval; however, it is subject to:					
A9	(a) preparation of a Construction Environmental Management Process (Plan) and an Environmental Work Method Statement (EWMS), in consultation with relevant public authorities and Newcastle City Council and approved by the ER under Condition A26(d). The Plan must detail how the performance outcomes, commitments, mitigation and monitoring measures specified in the documents listed in Condition A1 will be implemented and achieved during construction; and	This CEMPP <u>Appendix 12</u> <u>Appendix 16</u>				
	<ul> <li>(b) implementation of the approved Construction Environmental Management Process (Plan) and Environmental Work Method Statement (EWMS).</li> </ul>					
	Ancillary Facility Management Plan;					
	Before the establishment of any construction ancillary facilities (excluding minor construction, ancillary facilities determined by the ER to have minimal environmental impact and those established under conditions A19), the proponent must prepare an Ancillary Facility Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of construction ancillary facilities. The Ancillary Facility Establishment Management Plan must be prepared in consultation with the Newcastle City Council and relevant public authorities. The Ancillary Facility Establishment Management Plan must be submitted to the Planning Secretary for approval one (1) month before the establishment of any construction ancillary facilities. The Ancillary facilities and include:					
A15	<ul> <li>(a) a description of activities to be undertaken during the establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site);</li> </ul>	This CEMPP Appendix 2				
	(b) figures illustrating the proposed operational site layout, including access roads;					
	<ul> <li>(c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to commencement of site establishment works;</li> </ul>					
	(d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to:					
	(i) meet the performance outcomes stated in the documents listed in Condition A1, and					
	(ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and					







	(e) a program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Condition C10	
	Nothing in this condition prevents the proponent from preparing individual Ancillary Facility Establishment Management Plans for each construction facility.	
E15	The Unexpected Heritage and Human Remains Procedure must be prepared by a suitably qualified and experienced heritage specialist in consultation with OEH and the Heritage Council of NSW (or its delegate) and submitted to the planning Secretary for information no later than one (1) month before the commencement of any work.	This CEMPP Unexpected Finds Procedure IM- PRO-0504- 002 RMS – Unexpected Heritage Items; Heritage Procedure 02
	Out of Hours Work Protocol – Works not subject to an EPL	
	<ul> <li>(a) provide a process for the consideration of out of hours work against the relevant noise and vibration criteria, including the determination of low and high-risk activities;</li> </ul>	
	(b) provide a process for the identification of mitigation measures for residual impacts, including respite periods in consultation with the community at each affected location, consistent with the requirements of Condition E29;	
	(c) identify procedures to facilitate the coordination of out of hours work permitted by an EPL to ensure appropriate respite is provided;	
E31	(d) undertake a risk analysis that considers the risk of activities, proposed mitigation, management, and coordination including where:	Appendix 7
	(i) low risk activities can be approved by the ER, and	
	(ii) any other activity approved by the Planning Secretary; and	
	<ul> <li>(e) identify department, EPA and community notification arrangements for approved out of hours work, which may be detailed in the Communication Strategy</li> </ul>	
	The Out of Hours Work Protocol is not required if the proponent has an existing Out of Hours Work management Process or equivalent that addresses Condition E31 (a) to (e) and has been approved by the Planning Secretary prior to the commencement of work.	





## 5.1 PREPARATION & SUBMISSION OF CEMPP

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
The CEMPP will include the following:			
Daracons Environmental Management Policy ( <u>Appendix 13</u> ) that contains a commitment to the Ecologically Sustainable Development as detailed in the Protection of the Environment Administration Act 1991 (NSW);			
<ul> <li>It will describe all relevant elements of, and include references to, Daracons DMS documentation and how these will apply to the Work Under the Contract;</li> </ul>			
<ul> <li>Address all aspects and stages of the Work Under the Contract;</li> </ul>			
<ul> <li>Ministers Conditions of Approval (CoA) (<u>Appendix 12</u>);</li> </ul>			
<ul> <li>Environmental mitigation and management measures established within the SPIR / EIS as noted within the RMS CEMPP (<u>Appendix 14</u>);</li> </ul>			
Appendix to this CEMPP is the following Sub-plans:			
<ul> <li>Ancillary Facilities Establishment Management Plan (<u>Appendix 2</u>)</li> </ul>	G36 (3.1)	ESR and Project	IPMP, CEMPP,
Air Quality Management Plan ( <u>Appendix 3</u> )	A26 (d)	Manager	Sub-plans and EWMS
<ul> <li>Construction Community Liaison Management Plan (<u>Appendix 4</u>)</li> </ul>			
<ul> <li>Construction Flora and Fauna Management Plan (<u>Appendix 5</u>)</li> </ul>			
<ul> <li>Construction Flood Risk Management Plan (<u>Appendix 6</u>)</li> </ul>			
<ul> <li>Construction Noise and Vibration Management Plan (<u>Appendix 7</u>)</li> </ul>			
<ul> <li>Pollution Incident Response Management Plan (<u>Appendix 8</u>)</li> </ul>			
<ul> <li>Resource and Waste Management Plan (<u>Appendix 9</u>)</li> </ul>			
Soil and Water Management Plan ( <u>Appendix</u> <u>10</u> )			
<ul> <li>Unexpected Contaminated Land and Asbestos Management Plan (<u>Appendix 11</u>)</li> </ul>	t Land and an ( <u>Appendix 11</u> )		
EWMS ( <u>Appendix 16</u> )			
Hold Points – G36 Section 3.1			





**Process Held:** Commencement of Work not previously addressed by Daracons DMS and CEMP documents and authorised by earlier Hold Point release.

**Submission Details:** At least twenty (20) working days prior to the proposed commencement of the stage of Work Under the Contract nominated in the submission by Daracon, submit the CEMP and associated Sub-Plans and/or EWMS, as well as the DMS documents listed in Clause 3.1 of RMS G36 Specification.

**Release of Hold Point:** The Principal will forward the documents to the independent Environmental Representative or Planning Secretary Department of Planning and Environment for approval

prior to authorising the release of the Hold Point. The Principal may request additional information for inclusion in the CEMP before authorising the release of the Hold Point.

#### 5.2 PLANNING

#### 5.2.1 ENVIRONMENTAL GLOBAL RISK ASSESSMENT WORKSHOP (GRA)

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
The Project will prior to commencement of any work on Site, carry out an environmental risk assessment workshop using Daracons GRA process to identify all the environmental constraints associated with the Work Under the Contract and address the environmental risks associated with the constraints and activities propose to be undertaken.			
The environmental risk assessment workshop will be used to develop risk mitigation and management strategies to eliminate or reduce the risk exposure. These risk mitigation strategies will be consistent with the environmental mitigation and management measures listed in the environmental approvals as well as:			
RMS Biodiversity Guidelines;	G36 (3.2 &	All Project	GRA
<ul> <li>RMS Construction Noise and Vibration Guideline;</li> </ul>	3.2.1)	members	Document
<ul> <li>RMS Technical Guide: Management of Road Construction and Maintenance Waste; and</li> </ul>			
RMS Stockpile Site Management Guidelines.			
The GRA shall raise general awareness of good environmental management practices and develop ideas and actions to improve environmental practices and develop an audit and inspection program for the Project.			
The GRA shall be reviewed regularly and prior to commencement of different construction staging to ensure it remains relevant for the work activities.			
Hold Points – place hold points relevant to this section bel	ow.		

N/A





#### 5.2.2 REGULATORY REQUIREMENTS, REPORTING AND COMPLIANCE

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
Pre-Commencement of Works				
The following approvals, licenses and permits will be or have been obtained for the Project:				
<ul> <li>EPBC Decision Notice dated October 2015 (confirming the RP2J project is a controlled action).</li> </ul>				
<ul> <li>Project Approval under Part 5.2 of the EP&amp;A Act</li> <li>– SSI 6888 granted by the minister for planning on 15 February 2019.</li> </ul>				
<ul> <li>Approvals under the Water Management Act 2000 / Water Act 1912 for access to ground or surface water during construction (where required);</li> </ul>	G36 (3.2.2)	RMS / Daracon	Approvals, Licenses and Permits	
<ul> <li>Road occupancy License (ROL) under section 138 of the Roads Act 1993.</li> </ul>				
Local Council Permit(s) (where required).				
Any of the above approvals obtained by the Project will be provided to RMS in accordance with the below hold point.				
Hold Points – G36 Section 3.2.2				
<b>Process Held:</b> Commencement of any activity requiring an approval, licence and/or permit from an appropriate authority.				
<b>Submission Details:</b> At least five (5) working days prior to the activity, provide to the Principal evidence of receipt of the approval, licence and/or permit from the relevant authority.				

**Release of Hold Point:** The Principal will consider the submitted documents prior to authorising the release of the Hold Point.







#### 5.2.3 ENVIRONMENTAL OBJECTIVES AND TARGETS

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
Pre-Commencement of Works				
Project specific environmental objectives and targets include;				
<ul> <li>Comply with relevant requirements of the conditions of the RP2J Approval</li> </ul>			As per KPI.	
<ul> <li>Deliver the environmental mitigation management measures identified within the SPIR / RMS CEMPP; specific to the SPB project.</li> </ul>				
<ul> <li>Meet the NSW water quality objectives for aquatic ecosystems</li> </ul>	G36 (3.2.3)	Project Manager		
See the Integrated Project Management Plan Table 3 Key Performance Indicators for the Project.				
Project reporting forms part of the project documentation and is very important to track the progress of the project.				
The Key Performance Indicators (KPIs) shown in Table 3 of the IPMP provide mechanisms to allow the Project Manager to make informed decisions and provide internal and external stakeholders with a status report on the project on Financial, WHS, Environmental and Quality related items.				
Hold Points – place hold points relevant to this section below.				
N/A				





#### 5.2.4 CEMPP SUB-PLANS AND/OR MAPS

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
CEMPP Sub-plans will be prepared for the Project:			
<ul> <li>Construction Community Liaison Management Plan (CCLMP)</li> </ul>			
<ul> <li>Construction Flood Risk Management Plan (CFRMP)</li> </ul>			
<ul> <li>Soil and Water Management Plan (SWMP)         <ul> <li>Includes Erosion and sediment Control</li> <li>Plan</li> </ul> </li> </ul>			
<ul> <li>Unexpected Contaminated Land and Asbestos Finds Procedure (UCL&amp;AFP)</li> </ul>			
<ul> <li>Pollution Incident Response Management Plan (PIRMP) – Includes Emergency Spill Response</li> </ul>	G36 (Annexure G36/A2)	ESR / Project Manager	Sub-plans
Air Quality Management Plan (AQMP)	,		
<ul> <li>Construction Noise and Vibration Management Plan (CNVMP)</li> </ul>			
<ul> <li>Construction Flora and Fauna Management Plan (CFFMP)</li> </ul>			
<ul> <li>Resource Waste Management Plan (RWMP)</li> </ul>			
<ul> <li>Ancillary Facilities Establishment Management Plan (AFEMP)</li> </ul>			
Traffic Management Plan (TMP)			
Hold Points – place hold points relevant to this section below.			
N/A			





#### 5.2.5 ENVIRONMENTAL WORK METHOD STATEMENT (EWMS)

Safeguards	Source	Responsible Position	e Output
i.e. Mitigation Measures	i.e. Cla	use i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works	·		·
EWMS will be prepared progressively to suit the construction stages and include (refer Appendix	e <u>: 16</u> ):		
Vegetation clearing and grubbing;			
<ul> <li>Topsoil stripping and earthworks, incluct temporary stockpiling and disposal of ex material;</li> </ul>	ling xcavated		
<ul> <li>All works associated with the constructing permanent drainage;</li> </ul>	on of		
<ul> <li>Any works that are within 20 meters of Creek;</li> </ul>	Dark		
<ul> <li>Works out of standard hours (as specific Clause 3.6 of G36) and</li> </ul>	ed in		
• Discharge of water from the Site.			
EWMS will be prepared progressively to suit the construction stages and include:	)		
<ul> <li>Activities assessed as having high environmental risk</li> </ul>			
<ul> <li>Activities that impact on environmentally sensitive areas, including utility works</li> </ul>	y G36 (3 CoA A	.2.4) ESR / Proje Manager	EWMS
<ul> <li>Activities that involve work in waterways generally and/or that pose a risk to rece water quality.</li> </ul>	siving		
The EWMS will include the following:			
<ul> <li>Description of work activity, including pl equipment</li> </ul>	ant and		
<ul> <li>Sequencing of tasks and their interfaces other construction activities and relevan (ex. ESCP's)</li> </ul>	s with It plans		
<ul> <li>Mapping of the area which includes ser areas</li> </ul>	sitive		
<ul> <li>Identification of potential risks and assigned responsibilities, including potential asso impacts from wet weather events</li> </ul>	ned ciated		
<ul> <li>Safeguards and mitigation measures to to reduce potential environmental risks</li> </ul>	be used		
<ul> <li>Required operational monitoring to redupted potential environmental impacts</li> </ul>	ice		





Consultation with the relevant site management personnel to address issues, methods and activities and ensure that all personnel are aware of their responsibilities			
Hold Points – G36 Section 3.2.4			
<b>Process Held:</b> Commencement of Work not previously ac Statement documents and authorised by earlier Hold Point	ddressed by Ei it release.	nvironmental Work	Method
<b>Submission Details:</b> At least 21 working days prior to the work activity, submit the Environmental Work Method State	e proposed con tement docume	nmencement of eac ents for the nominat	ch applicable ed work.
<b>Release of Hold Point:</b> The Principal will consider the do Hold Point for the nominated work. The Principal may rele Method Statement progressively, consistent with your pro- Principal may request additional information for inclusion is before release of Hold Point.	cuments prior ase work cove gram for the W in the Environn	to authorising the re- red by the Environi fork Under the Cont nental Work Method	elease of the mental Work tract. The d Statement
During Works			
<ul> <li>All employees, contractors and utility staff working on site will undergo EWMS briefing/training. The briefing/training will address, but not be limited to: <ul> <li>Existence and requirements of the EWMS</li> <li>Relevant legislation</li> <li>Roles and responsibilities for the activities</li> <li>The location of the works activities and sensitive receivers</li> </ul> </li> <li>Procedure to be implemented in the event of an unexpected finds.</li> <li>Targeted training in the form of toolbox talks or specific training will also be provided, where required.</li> <li>The ESR or Project Engineer (or delegate) will regularly inspect the works to ensure that the activity is being undertaken in accordance with EWMS. Additionally, the ESR or Project Engineer (or Delegate) will review and amend the EWMS in consultation with the work crews where required.</li> </ul>	G36 (3.2.4)	ESR / Project Engineer / Specialist	EWMS
Hold Points – place hold points relevant to this section bel	OW.		
N/A			





## 5.3 RESOURCES, RESPONSIBILITY AND AUTHORITY

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Organizational Chart (Appendix 1) and Roles and Responsibilities (Appendix 2).			
The following personnel on site have the responsibility to develop, implement and maintain the environmental aspects of the works and ensure that the mitigations measures are met on site.			
Sebastian Farrell - Project Manager			
<ul> <li>James Douglas - Environmental Site Representative</li> </ul>	G36 (3.3) CoA A26	ESR / Project Manager	IPMP Appendices.
The ESR will also work with the client to rectify any environmental nonconformities identified by the Project team or RMS.			
In addition to the RMS management roles and responsibilities an independent Environmental Representative (ER) will be appointed for the project in accordance with CoA. The responsibilities of the ER are detailed within CoA A26			
Hold Points – G36 Section 3.3ic			
			<i></i>
<b>Process Heid:</b> Work required to be undertaken by an eco specification.	ologist as detai	iea in RMS G40 or	this

**Submission Details**: CV of proposed ecologist including details of previous experience on similar size construction projects.

**Release of Hold Point:** The Principal will consider the submitted documents prior to authorising the release of the Hold Point. The Principal may request additional information prior to release of the Hold Point.







## 5.4 SELECTION & MANAGEMENT OF SUBCONTRACTORS

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Subcontractors and Suppliers (Clause 6.5) and Project Online Induction.			
All subcontracted works will be required to meet Daracons compliance and provide evidence of:			
<ul> <li>The duties of each worker for planning, implementing and monitoring environmental protection measures and for keeping environmental records</li> </ul>			
The Subcontractor together with the Project team will determine who will retain what duties for environmental protection.			
<ul> <li>How environmental protection measures during works interact with adjacent work areas, as applicable</li> </ul>	G36 (3.4)	Project Manager / ESR / Project	Environmental Inspection <i>IM-</i> <i>REP-0503-</i>
• The ESR and Project Engineers to monitor the effectiveness of the works and environmental protection measures together with the relevant project documentation.			001
Prior to subcontractors commencing work on site, the Project will ensure that the subcontractors and their staff are provided with environmental awareness training.			
The ESR and/or Project Manager (or delegate) will monitor subcontractors (including on site surveillance, visual and written Environmental Inspections) to ensure compliance is achieved with the CEMPP and Sub- Plans.			
Hold Points – place hold points relevant to this section be	low.	·	
N/A			







## 5.5 COMPETENCE, TRAINING & AWARENESS

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
i.e. Mitigation Measures         Pre-Commencement of Works         See IPMP Construction Environmental Management (Section 6.10), Communication & Consultation (Section 10) and Project Online Induction.         The Project will undertake induction/training within two weeks of commencing construction and when new personnel commence on site. The Project will undertake refresher environmental induction and training at not less than 6 monthly intervals.         Toolbox talks will be held when works commence in a new area, or a new activity commences, or as environmental issues arise. The toolbox talk will include, but not be limited to: <ul> <li>A description of the activity and the area</li> <li>Identification of the environmental issues and risks for the area (including fauna or flora)</li> <li>Outline the mitigations measures for the works and the area.</li> </ul> Training will focus on, but not be limited to: <ul> <li>Site awareness</li> <li>Working within approved project hours</li> <li>Out of Hours Works Protocol</li> <li>Erosion and sediment controls</li> <li>Working near Dark Creek</li> <li>Dust control</li> <li>Dewatering</li> <li>EWMS</li> </ul>	i.e. Clause	i.e. ENV Manager	i.e. EWMS Site Induction and Training Records Consultation Record <i>IM- FOR-0303- 001</i> Environmental / Toolbox Talk
A record of all environment inductions will be maintained in an induction and training register and kept on-site. The training register will identify who is trained, when trained, the trainer and what they were trained in.			
Hold Points – place hold points relevant to this section be	low.		
N/A			





## 5.6 WORKING HOURS

Safeguards		Source	Responsible Position	Output
i.e. Mitigation Measures		i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of W	orks			
Approved working hours o	n this project are:			
Monday – Friday	7am – 6pm			
Saturdays	8 am – 5pm			
No works on Sundays and	Public Holidays.	G36 (3.6)	ESR / Project	
		CoA E26	Manager	IPIVIP
See IPMP Hours of Work procedures.	(Section 5.1) for Daracons			
Refer to Clause 6.5 for fur	ther noise controls.			
Hold Points – place hold points relevant to this section below.				
N/A				





## 5.7 COMMUNICATION

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
Pre-Commencement of Works	·			
See IPMP Community Engagement (Section 6.10.6) for Daracons procedures and Construction Community Liaison Management Plan (CCLMP) ( <u>Appendix 4</u> ). The Community Liaison Representative (or Delegate) and the Principal's community representative must be consulted during the planning of activities that consider periods of extended or out of hours works beyond the working hours. Ongoing coordination and consultation will be carried out with all stakeholders to ensure potential cumulative impacts are appropriately assessed and managed. The Project shall inform RMS, and the residents of the proposed work outside normal working hours in accordance with the specification.	G36 (3.7)	Community Liaison Manager / Project Manager	Construction Community Liaison Management Plan (CCLMP) Consultation Manager - Notifications	
Hold Points – place hold points relevant to this section below.				
N/A				





#### 5.7.1 LIAISON WITH EPA

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
During Works         See IPMP Reporting of Incidents (Section 9.2); Pollution Incident Response Management Plan (PIRMP) (Appendix 8); and Construction Noise and Vibration Management Plan (CNVMP) (Appendix 7).         The Project will notify site visits from the EPA or other Government Agencies to RMS. The notification will include the purpose and outcome of the visit, and any actions to be taken in response to the visit. The report shall be submitted to RMS within one week of the visit.         The Project will report incidents to RMS using their Environmental Incident Classification and Reporting Procedure.         Notification of environmental harm will be made by telephoning the Environmental Line service on 131 555. Written details of the notification will be provided to the EPA within 7 days of the date of which the incident occurred.         The following personnel will be available to be contacted by the EPA and/or other Government agencies in relation to the project;	G36 (3.7.1)	ESR / Project Manager / EQ&T Manager	Construction Community Liaison Management Plan (CCLMP) Pollution Incident Response Management Plan (PIRMP) Interview Record <i>IM- FOR-0800- 001</i> Immediate Incident Notification Form <i>IM- FOR-0306-</i>
Project Manager:			001
<ul> <li>Environment, Quality and Training Manager:</li> </ul>			
Hold Points – place hold points relevant to this section below.			
N/A			





#### 5.7.2 COMMUNITY LIAISON AND/OR NOTIFICATION

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Community Engagement (Section 6.10.6) and Construction Community Liaison Management Plan (CCLMP) ( <u>Appendix 4</u> ). In accordance with CoA B1 the Construction Community Liaison Management Plan has been developed to			
document the approach to stakeholder and community communications.			
As per the requirements of CoA B2, the CCLMP details a range of communication tools including;			
<ul> <li>media releases and advertisements in local newspapers</li> </ul>			
door-knocks			
letterbox drops		) Community Liaison Manager / Project Manager	Construction
<ul> <li>community update newsletters / notifications</li> </ul>			Community
<ul> <li>community information sessions</li> </ul>			Liaison Management
<ul> <li>signage at construction sites</li> </ul>	G36 (3.7.2)		Plan
<ul> <li>construction updates (including for councils, emergency services and bus operators)</li> </ul>	CoA B1, B2, B3		
RP2J project website			Consultation Manager -
<ul> <li>RP2J project 1800 number, email address and postal address.</li> </ul>			Notifications
For community notices and advertisements, RMS' logo must appear at the top of the page and Daracon's logo at the bottom alongside the site contact details. The notices and advertisements must comply with;			
NSW (Government) Guidelines for advertising			
RMS Brand Guidelines, Version 1, March 2012			
RMS Services Editorial Style Guide, April 2014			
RMS Services project communication templates			
All community notices will be undertaken in accordance with the Advertising and Notification Schedule detailed in G36.			
Hold Points – G36 Section 3.7.2			
<b>Process Held:</b> The release of any and all information door Maritime Services with the exception of responses managed	cumentation/ ac	dvertisements outsi se 3.7.3.	de Road and







Submission Details: Draft of the proposed content and format of information documentation/ advertisements, the reason it is required and the timing and extent of distribution. Release of Hold Point: The Principal will review the contents and advise any required changes before authorising the release of the Hold Point. Allow three (3) weeks for the Principal to review.





#### 5.7.3 COMPLAINTS MANAGEMENT





## 5.8 EMERGENCY PLANNING

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works	·		
See IPMP Incident Management (Section 9 and Appendix 12) and Pollution Incident Response Management Plan (PIRMP) ( <u>Appendix 8</u> ). Environmental incidents must be managed and reported in accordance with Daracon procedures and the NSW RMS Environmental Incident Classification and Management Procedure and relevant CoA's.	G36 (3.8) CoA A37, A38	Project Manager	Pollution Incident Response Management Plan (PIRMP) Interview Record <i>IM- FOR-0800- 001</i> Immediate Incident Notification Form <i>IM- FOR-0306- 001</i>
Hold Points – place hold points relevant to this section bel	ow.		
N/A			





## 5.9 MONITORING, INSPECTION AND AUDITING

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
During Works See IPMP Monitoring and Review (Section 11). RMS will also undertake both periodic and risk-based inspections of the Site. These inspections will include, but not be limited to; weekly and post rainfall inspections, high risk work, work in environmentally sensitive areas, retention of flora and fauna habitat and site preparedness for adverse weather. Where these inspections identify environmental nonconformities, the Project will address them within the time specified by RMS. Weekly site environmental inspections to assess the adequacy and effectiveness of the site controls, sensitive areas, and high-risk activities. An auditing schedule will be undertaken to verify that the Work Under the Contract meets the requirements of this Specification RMS G36, RMS G38 and RMS G40. The Schedule will specify the type of audits to be conducted, their scope and their frequency. Audits may include but are not limited to; A copy of each audit report will be submitted to the RMS within 10 working days of the audit. Review the risk based auditing answer following Depresenting based on the risk based auditing answer following Depresenting based based on the risk based auditing answer following Depresenting Depresenting based ba	G36 (3.9) CoA A29, A34, A35, A36	ESR / Project Manager / Superintendent	Site Internal Audit Schedule <i>FRM.00506</i> Audit Information report <i>FRM.00503</i> Environmental Inspection <i>IM-</i> <i>0503-001</i>
RMS within 10 working days of the audit. Review the risk-based auditing program following Daracons initial audit and amend it if needed. The auditing and verification will be undertaken by the ESR. Daracon will conduct all internal and external			
environmental audits for the Work Under the Contract in accordance with AS/NZS ISO 19011.			
Hold Points – place hold points relevant to this section below.			
N/A			





## 5.10 ENVIRONMENTAL NONCONFORMITIES

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
See IPMP Non-Conformance & Corrective Action (Section 12.6).			
Non-conformance are defined as failure to meet environmental obligations under the contract, including;		ESR / Project Manager	Corrective and Preventive Action procedure <i>IM-PRO-</i> 1407-002
<ul> <li>Non-conformance to the Specification, CEMPP and supporting documentation;</li> </ul>			
<ul> <li>Failure to act when the principle or statutory authority that has jurisdiction over the work observe that the implemented environmental controls are not effective;</li> </ul>	G36 (3.10)		
<ul> <li>If the Project fail to implement safeguards against a Category 1 environmental incident, then the RMS "Environmental Incident Classification and Reporting Procedure" will be implemented.</li> </ul>			
Hold Points – G36 Section 3.10			
<b>Process Held:</b> Any activity that causes or has the potential to cause harm to the environment due to your failure to meet environmental obligations under the Contract (including recurring issues from checklists, reviews, improvement notices, inspections, audits, surveillance).			
<b>Submission Details:</b> Verification that the failure has been rectified, and details of the measures implemented to prevent recurrence.			
<b>Release of Hold Point:</b> The Principal will consider the submitted documents and may inspect the relevant work prior to authorising the release of the Hold Point. The Principal may request additional			

information in respect of the submitted documents.





## 5.11 RECORDS OF ENVIRONMENTAL ACTIVITIES

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
See IPMP - Onsite Management & Surveillance (6.5.3) and Management of Project Records (13.2).				
All environmental monitoring/reporting records will be kept:				
In a legible form				
<ul> <li>Kept for at least 5 years after the monitoring or event</li> </ul>				
<ul> <li>Produce in a legible form to any authorized officer of the EPA</li> </ul>				
Comprehensive details will be retained from sampling such as the date, time, point and the name of the person who collected the sample.				
The Project will maintain legible records of all complaints made to the Project in relation to pollution arising from any activity. The pollution record will include the following details:				Project Records Environmental monitoring Records Monthly Reports
• The date and time of the complaint;		Records	Records	
• The method by which the complaint was made;	G36 (3.11	ESR / Project	Environmental	
<ul> <li>Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;</li> </ul>	& 3.12)	Manager	Records Monthly Reports	
The nature of the complaint;				
<ul> <li>The action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant;</li> </ul>				
<ul> <li>If no action was taken by the licensee, the reasons why no action was taken.</li> </ul>				
The pollution complaint record will be kept for at least 4 years after the complaint was made and the record will be produced to any authorized EPA office upon request.				
Monthly reports of environmental performance, including non-compliances in relation to Environmental Performance will be sent to RMS.				





The Project will maintain records of environmental inspection reports, monitoring data and reports, internal and external audit reports, environmental incidents and complaints, minutes of management review meetings, monthly reports, records required under the specification and approvals, induction and training records and material tracking registers. These documents will be provided to RMS upon request.		
Hold Points – place hold points relevant to this section be	low.	
N/A		





## 5.12 MANAGEMENT REVIEW

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
See IPMP Auditing & Review (Section 11.4). RMS may conduct regular surveillance and inspections of the project at any time. The Project Manager and/or delegate is to ensure that the requirements of G36 and works under the Contract are met. Management reviews will be undertaken at least quarterly and will include RMS participation.	G36 (3.12)	Internal Auditor / ESR / Project Manager	Environmental Inspection <i>IM- 0503-001</i> Audit Information report <i>FRM.00503</i>
Hold Points – place hold points relevant to this section be	low.		
N/A			



# DARACON

# **6 OPERATIONAL CONTROL**

## 6.1 SOIL & WATER QUALITY MANAGEMENT

#### 6.1.1 EROSION AND SEDIMENTATION CONTROL

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works	·		
See IPMP Soil & Water Management (Section 6.10.2) and Soil and Water Management Plan (SWMP) ( <u>Appendix 10</u> ).			Soil and
The Project will prepare SWMP and Erosion Sediment Control Plans (ESCP), specific to the construction staging and work methods. The SWMP and ESCP will be prepared in accordance with the guidelines in the publication "Managing Urban Stormwater: Soils and Construction Volumes 1 and 2d" (the BLUE BOOK), RMS Code of Practice for Water Management, the RMS Erosion and Sedimentation Procedure, RMS Technical Guideline: Temporary Stormwater Drainage for Road Construction (2011), and RMS Technical Guideline: Environmental Management of Construction Site Dewatering (2011).	G36 (4.1) & G38 (2.1)	ESR / Project Manager	Water Management Plan (SWMP) Erosion & Sediment Control Plan (ESCP)
Hold Points – G38 Section 3.1			
<b>Process Held:</b> Commencement of work in each catchment or sub-catchment requiring the installation of erosion control and sediment capture measures not previously addressed by ESCP and authorised by earlier Hold Point release.			
commence. The drawing(s) must be submitted at least to surface of the section of the Site. <b>Release of Hold Point:</b> The Principal will consider the section of the Site.	or sections of a en working day ubmitted drawi	ing(s) prior to autho	c is to ce of the rising the
release of the Hold Point.			
During Works	1	r	
The ESCP will be prepared by a person with demonstrated skills and experience in preparing the ESCP in accordance with the BLUE BOOK guidelines throughout the duration of the Project.			Erosion & Sediment Control Plan
An EVVMS for working in and adjacent to Dark Creek and any access works on the creek banks waterways will be prepared in accordance with the NSW DPI (Fisheries) guidelines Policy and guidelines for fish habitat conservation and management (DPI 2013) and detail the control measures to avoid or minimize erosion and any adverse impact on water quality and riparian fauna and flora.	G38 (2.2) CoA E57	ESR / Project Manager / Soil Conservationist	Environmental Inspection <i>IM-</i> <i>REP-0503-</i> <i>001</i>



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ESCP's will be regularly updated and reviewed regularly. No ESCP is to be more than 3 months old.		
Progressively, before work begins on any section of the Site, the Project will prepare a drawing for that section showing all controls required to avoid erosion and sedimentation of the Site, surrounding areas, watercourses, drainage systems, water bodies and wetlands. Include necessary diversions or controls for water entering the construction zone from areas outside the Project.		
The Project will design and select the erosion and sedimentation control measures. All erosion and sedimentation controls will be installed prior to start of related construction including any diversions or controls to manage water flowing into construction areas from existing and completed asphalt road surfaces and land outside of the Site.		
Erosion and sediment controls measure will be installed on the Project, inspected and repair and maintenance at least weekly, immediately before site closure, and immediately following rainfall events exceeding 15mm of rain or that cause runoff.		
Hold Point – G38 Section 3.1.1		
<b>Process Held:</b> Commencement of work requiring the ins measures not previously addressed by ESCP and author <b>Submission Details:</b> Drawings prepared progressively f	tallation of erosion <b>c</b> ontrol and s ised by earlier Hold Point Relea	ediment capture se. k is to

**Submission Details:** Drawings prepared progressively for sections of the site where work is to commence. The drawing(s) must be submitted at least ten working days before disturbance of the surface of the section of the site.

**Release of Hold Point:** The Principal will consider the submitted drawing(s) prior to the authorising release the of the hold point.





#### 6.1.2 WATER QUALITY MONITORING

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
During Works				
See IPMP Water Quality Monitoring (Section 6.10.2.4) and Soil and Water Management Plan (SWMP) ( <u>Appendix 10</u> ).				
The Project will undertake a Water Quality Monitoring Program in accordance with the RMS Guideline for Construction Water Quality Monitoring and EPA publication "Approved Methods for the Sampling and Analysis of Water Pollutants in NSW.".			Soil and Water Management Plan (SWMP)	
Water Monitoring Program will be in accordance with RMS Guideline for Construction Water Quality	<b>C38 (2 3)</b>		Water Monitoring Program	
Monitoring, RMS Environmental Direction 19: Use of Reclaimed Water and EPA publication "Approved Methods for the Sampling and Analysis of Water Pollutants in NSW."	CoA E85, E86	ESR / Project Manager	Environmental Inspection <i>IM-</i> <i>REP-0503-</i> <i>001</i>	
The Project will undertake visual monitoring of local water quality (i.e. turbidity, hydrocarbon spills/slicks) on a regular basis to identify any potential spills.			Erosion & Sediment Control Plan (ESCP)	
The Project will ensure that any runoff permitted to leave the work area is free of pollutants and of low velocity to avoid erosive effects. As well as implement water quality control measures to prevent any materials such as concrete, grout and sediment entering drainage inlets and waterways.				
Hold Points – place hold points relevant to this section below.				
N/A				







#### 6.1.3 CONSTRUCTION SITE DEWATERING

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
Pre-Commencement of Works				
Soil and Water Management Plan (SWMP) (Appendix 10) and Environmental Work Method Statement (EWMS). The Project will conduct any dewatering activities in a manner that does not cause erosion and/or pollute the environment. Dewatering is any activity that involves the removal of ponded stormwater or infiltrated groundwater from any location on Site (including from sediment basins and farm dams). The Project will ensure that any subsequent reuse discharge or disposal of that water is done legally. Dewatering will also be done in accordance with RMS Technical Guideline EMS-TG- 011: Environmental Management of Construction Site Dewatering.	G38 (3.4) CoA E85	ESR / Project Manager	Soil and Water Management Plan (SWMP) Environmental Work Method Statement (EWMS) Dewatering Permit <b>QU-</b> <b>PER-0503-</b> 001	
Hold Points – place hold points relevant to this section below.				
N/A				





#### 6.1.4 STOCKPILE MANAGEMENT

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
See IPMP Erosion & Sediment Control Plans (Section 6.10.2.2) and Soil and Water Management Plan (SWMP) ( <u>Appendix 10</u> )			
The Project will establish erosion control and sediment capture measures, and maintain them regularly, to divert offsite stormwater, manage onsite stormwater runoff and stabilize stockpiles in accordance with RMS Technical Guideline EMS-TG-010: Stockpile Site Management, RMS Stockpile Management Procedures (2011) and the BLUE BOOK guidelines.			Soil and Water Management Plan (SWMP)
If any stockpile site is to be located on private land, the Project will obtain from the landholder an approved notice under s.143 of the POEO Act 1997 prior to commencement of stockpiling. The details of any relevant licenses or planning approvals and the s.143 notice will be submitted to the Principal and the Principal may inspect the stockpile site periodically.	G38 (3.5)	ESR / Project Manager / Soil Conservationist	Environmental Inspection <i>IM-</i> <i>REP-0503-</i> <i>001</i> Erosion & Sediment Control Plan (ESCP)
Site satbilisation of disturbed areas will be carried out progressively as stages are completed.			
Excess spoil not required or able to be used for backfilling will be stockpiled in a suitable location before being reused or removed from the site and disposed of appropriately in accordance with the NSW EPA Waste Classification Guidelines (2014).			
Hold Points – place hold points relevant to this section below.			
N/A			





#### 6.1.5 TANNIN MANAGEMENT

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
During Works				
See IPMP Erosion & Sediment Control Plans (Section 6.10.2.3) and Soil and Water Management Plan (SWMP) ( <u>Appendix 10</u> ) Managing the use of and stockpiling of mulch will be included undertaken in to reduce the risk of tannin leachate from mulch flowing into waterways. Controls will be considered in accordance with <u>RMS</u>	G38 (3.6)	ESR / Project Manager / Soil Conservationist	Soil and Water Management Plan (SWMP) Environmental Inspection <i>IM- REP-0503- 001</i> Erosion &	
Environmental Direction 25 – Management of Tannins from Vegetation Mulch.			Sediment Control Plan (ESCP)	
Hold Points – place hold points relevant to this section below.				
N/A				





#### 6.1.6 WATER EXTRACTION

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
The Project will not extract water from waterways as part of the Project. The Project may use stormwater, recycled water or other water sources instead of potable water for construction e.g. for dust control. The Project will obtain all necessary approvals and licenses from the New South Wales Office of Water, the Local Council and/or any other persons or authorities having responsibility for the chosen source(s) before commencing extraction. The use of reclaimed water will comply with the requirements of RMS Environmental Direction 19: Use of Reclaimed Water. Daracon together with RMS will consult with NSW Officer of Water to determine the need for an access license under the Water Management Act 2000. Any license required will be obtained.	G38 (3.8)	ESR / Project Manager	Soil and Water Management Plan (SWMP) Dewatering Permit <b>QU-</b> <b>PER-0503-</b> <b>001</b>
Hold Points – place hold points relevant to this section below.			
N/A			





#### 6.1.7 FLOOD MANAGEMENT

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
See IPMP Auditing & Review (Section 6.10.2.1) and Construction Flood Risk Management Plan ( <u>Appendix</u> <u>6</u> ).			
The Construction Flood Risk Management Plan details warning and evacuation procedures for the Project as well as address the potential for flooding and manage flood impacts on the construction activities and neighbouring properties.	G38 (3.9)	ESR / Project Manager	Environmental Inspection <i>IM-</i> <i>REP-0503-</i> <i>001</i>
The Project will minimize the storage of excess materials within the flood zones, including within compound areas.			
Hold Points – G38 Section 3.9			
Process Held: Commencement of any activities adjacent to Dark Creek			
<b>Submission Details:</b> At least ten (10) working days prior to commencing construction of any activity in / around waterways, submit your Flood Management Plan			
<b>Release of Hold Point:</b> The Principal will consider the submitted documents prior to authorising the release of the Hold Point. The Principal may request additional information prior to releasing the Hold Point.			





#### 6.2 UNEXPECTED CONTAMINATED FIND

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
During Works				
See IPMP Contaminated Land (Section 6.10.9) and Unexpected Contaminated Land and Asbestos Finds Procedure (UCL&AFP) ( <u>Appendix 11</u> ).				
The Unexpected Contaminated Land and Asbestos Finds Procedure (UCL&AFP), RMS publication "Contaminated Land Management Guideline", RMS "Environmental Incident Classification and Reporting Procedure", and EPA guidelines on contaminated land management, provides details on the management of contaminated land and materials.	G36 (4.2) CoA E58, E59, E60	G36 (4.2) CoA E58,	ESR / Project Manager	Unexpected Contaminated Lands and Asbestos Finds Procedure
An Unexpected Contaminated Lands and Asbestos Finds Procedure ( <u>Appendix 11</u> ) has been established to facilitate the quarantining, isolation and remediation of contamination identified throughout the construction program.			(UCL&AFP) Remediation Action Plan (RAP)	
Asbestos will be managed in accordance with the EPA Protection of Environment (Waste) regulation 2005 Roads and Maritime Waste Fact Sheet 5 and relevant industry Codes of Practice.				
Hold Points (Sect 4.2.4) – G36 Section 4.2.4				
<where action="" be="" is="" prepared="" remedial="" sub-plan="" the="" to=""> Process Held: Activities within the vicinity of actual or suspected contaminated land. Submission Details: At least five (5) working days prior, submit the Remediation Action Sub-plan and relevant procedures.</where>				
<b>Release of Hold Point:</b> The Principal will consider the submitted documents prior to authorising the release of the Hold Point. The Principal may request additional information in respect of the submitted documents.				







## 6.3 SPILL PREVENTION AND RESPONSE

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
Pre-Commencement of Works				
See IPMP Spill Response (Section 9); Pollution Incident Reponses Management Section (9.2.2) and Pollution Incident Response Management Plan (PIRMP) (Appendix 8). The Pollution Incident Response Management Plan (PIRMP) details the RMS "Code of Practice for Water Management" with regards to the transportation, storage and use of potentially hazards materials, as well as procedures for spill prevention. A register of all hazardous materials (as defined by the Waste Minimisation and Management Act 1995 and Regulations 1996) will be maintained during the Project.	G36 (4.3)	ESR / Project Manager	Pollution Incident Response Management Plan (PIRMP) Environmental Inspection <i>IM- REP-0503- 001</i> Hazardous Chemicals Register <i>IM- REG-0312- 001</i> Erosion & Sediment Control Plan (ESCP)	
Hold Points – place hold points relevant to this section below.				
N/A				





## 6.4 AIR QUALITY

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
See IPMP Air Quality Management (AQMP) (Appendix 3); and Quality Management Plan (AQMP) (Appendix 3); and the Community Liaison Management Plan (Appendix 4). Air quality monitoring will comply with the EPA publication "Approved Methods for Sampling and Analysis of Air Pollutants in NSW". Monitoring data will include reporting of insoluble solids in accordance with the EPA publication "Approved Methods for the Modelling and Assessment of Air Pollutants in NSW". If required as an additional mitigation measure, Deposition Dust Gauges (DDG) will be established along the alignment for monthly monitoring and reporting of the air quality throughout the Project. Samples will be taken to NATA accredited laboratory for analysis. On days that are considered to have high winds the Project will alter their activities to minimize dust. Ground cover will be established where possible and a water cart will be used throughout the duration of the Project. Once a year, the Project will submit to the Principal reports at the following dates: • before 31 July, for the reporting period ending 30 June for the previous 12 months; • at Actual Completion Date, for the final reporting period. The Report will be prepared in accordance with RMS' GREP "Clean Air data management tool". The Report focuses on energy, water, waste and air usage/impacts during the Project. Local residents will be regularly informed about the Projects activities and supplied with the contact details of the community line if they have concerns in relation to air quality during the Project. The Project will aim to not cause or permit the emission of any offensive odour from the Project for the purposes of s129 of the Protection of the Environment Operations Act 1997. Hold Points – place hold points relevant to this section bel	G36 (4.4) CoA E1	All Project Management Staff	Global Risk Assessment (GRA) Erosion & Sediment Control Plan (ESCP) Air Quality Management Plan (AQMP) Government Resource Efficiency Policy Report (GREP)

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#### N/A

#### 6.4.1 FIRE SAFETY AND BURNING OFF

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
See IPMP Emergency Response Management Plan (Appendix 12). The Project will comply with the requirements of the			
Rural Fires Act 1997 (NSW), and the Local Government Act 1993 (NSW) and be guided by the NSW Rural Fire Service publication "Equipment and Machinery Use in Bush Fire Prone Areas".	G36 (4.5)	ESR / Project Manager / Project Engineer	Emergency Response Management Plan (ERP)
All items of plant used during high fire danger periods that could discharge sparks will be fitted with spark arresters. The Project will not undertake cutting, welding, grinding or other activities likely to generate fires in the open on days when a total fire ban is proclaimed.			
Hold Points – place hold points relevant to this section below.			
N/A			





## 6.5 NOISE CONTROL

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Management of Noise & Vibration (Section 6.10.7) and Construction Noise and Vibration Management Plan (CNVMP) ( <u>Appendix 7</u> ).			
A noise and vibration management plan (CNVMP) has been prepared as part of the construction environmental management plan. The Plan includes, but not be limited to:			
Community consultation measures			Construction
Environmental site inductions			Noise & Vibration
Behavioral practices		ESR / Project	Management
<ul> <li>Predictions of noise and vibration levels for certain activities</li> </ul>	G36 (4.6)	Community Liaison Manager	Plan (CNVMP)
Noise monitoring program			Noise Assessment
Attended vibration measurement requirements.			Tool
The Project will implement mitigation measures including community consultation where out of hours work will be conducted, applying measures for socio- economic effect, respite periods, altering work locations where practicable, and the procedures outlined in in the RMS Construction Noise and Vibration Guidelines.			
Hold Points – place hold points relevant to this section be	OW.		
N/A			
During Works			
The noise levels of plant and equipment will have operating Sound Power or Sound Pressure Levels compliant with the criteria in RMS Construction Noise and Vibration Guideline.	G36 (4 6)		Construction
The Project will consider at-receiver mitigation for those	CoA E26		Vibration
activities that trigger operational criteria early during the construction period to assist in also providing attenuation of construction noise.	COA E20,           E27, E28,           E29, E30,           M           E31, E32,           E33, E34,	ESR / Project Manager	Management Plan (CNVMP) Out of Hours
Where construction work will be outside of standard construction hours, measures outlined for socio- economic effects and the procedures outlined in RMS Construction Noise and Vibration Guideline will be applied in relation to consultation with the community.	E35,		Work Assessment





The Project will follow the Out-of-Hours Work Protocols detailed within the CNVMP ( <u>Appendix 7</u> ).		
Attended noise monitoring will be carried out to confirm the predicted noise levels upon receipt of a complaint. This would be carried out at the complainant's location and the monitoring will be in accordance with the Interim Construction Noise Guideline (DECC 2009). The Project will review the mitigation measures and adjust where required. The Project will also undertake periodic noise monitoring to validate noise modelling and predictions from the EIS/SPIR.		
Hold Points – place hold points relevant to this section bel	ow.	
N/A		





## 6.6 GROUND VIBRATION

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Management of Noise and Vibration (Section 6.10.7) and Construction Noise and Vibration Management Plan (CNVMP) ( <u>Appendix 7</u> ). Building Condition Inspection Reports will contain photographs of the inspected properties and include details of the inspectors' qualification and expertise, together with a list of any identified defects in foundations, walls and roof (including extent and width of any cracking), where relevant. The reports will be submitted to the owner of each property and to the Principal before the commencement of any activities.	G36 (4.7) CoA E36, E37, E44, E54	Project Manager / ESR	Construction Noise & Vibration Management Plan (CNVMP) Building Condition Inspection Report
A Building Condition Report will also be undertaken for the potentially affected structures within the project.			
Hold Points – G36 Section 4.7			
<ul> <li>Process Held: Commencement of blasting, pile driving, excavation by hammering or ripping, dynamic compaction, demolition operations, or any other activity which may cause damage through vibration.</li> <li>Submission Details: At least ten (10) working days prior, submit to the Principal a copy of the Building Condition Inspection Reports and the Construction Noise and Vibration Management Sub-Plan.</li> <li>Release of Hold Point: The Principal will consider the submitted documents prior to authorising the release of the Hold Point. The Principal may request additional information in respect of the proposal and/or submitted documents.</li> </ul>			
During Works			
Vibration works will be undertaken in accordance with the RMS Construction Noise and Vibration Guideline. The Project is to carry out attended vibration monitoring if vibration works is carried out within the safe working distances for cosmetic damage to buildings.	G36 (4.7) CoA E55, E56	ESR / Project Manager	Construction Noise & Vibration Management Plan (CNVMP)
monitoring to validate vibration modelling and predictions from the EIS/SPIR.			
Hold Points – place hold points relevant to this section below.			
N/A			



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## 6.7 **BIODIVERSITY**

#### 6.7.1 VEGETATION MANAGEMENT

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Flora and Fauna (Biodiversity) Management (Section 6.10.5) and Construction Flora and Fauna Management Plan (CF&FMP) ( <u>Appendix 5</u> ). The Project will undertake clearing for identified habitat trees and strategies for the removal of habitat features from the construction zone in accordance with RMS Biodiversity Guidelines (Guide 9: Fauna Handling). Prior to clearing and grubbing the Project will develop an EWMS, for clearing and grubbing that meets the requirements of Specification RMS G40 and RMS publication "RMS Biodiversity Guidelines: Protecting and Managing Biodiversity on RMS Projects" and Species Impact Statement requirements. Prior to any activities taking place on site the Project will engage their consultant to undertake a Pre-clearing Survey of the area.	G36 (4.8) G40 (2.4) CoA A5, A9, E2, E8	ESR / Project Manager / Project Ecologist	Construction Flora and Fauna Management Plan (CF&FMP) Erosion & Sediment Control Plan (ESCP) Environmental Work Method Statement (EWMS) Pre-clearing Survey
Hold Points – G40 Section 2.4			
<b>Process Held:</b> Clearing any area of work. <b>Submission Details:</b> Clearing and Grubbing Environment and report on the presence of weeds and unsound trees and areas of weed infestation identified in the ecologist re- days before starting any clearing. <b>Release of Hold Point.</b> The Principal will consider the sub- trees or built structures for preservation including clearing hold point.	ntal Work Meth together with v eport (clause 2 ubmitted docur g limits, prior to	nod Statement (Ann written notice that lin 2.4(a) are marked), a ments and will inspe o authorising the rel	exure G40/C) mits of clearing at least seven ect and mark ease of the
During Works			
Existing vegetation would be maintained and protected by exclusion wherever possible, particularly in riparian areas, protected species and/ habitat trees (refer to the Construction Flora and Fauna Management Plan for detailed species list and tree locations ( <u>Appendix 5</u> ). Trimming of trees rather than clearing would be carried out where possible.	G40 (2.4) CoA E2, E3, E9, E10, E11	ESR / Project Manager / Project Ecologist	Construction Flora and Fauna Management Plan (CF&FMP) Environmental Inspection <i>IM</i> - <i>REP-0503-001</i>





Regular environmental inspections will be undertaken by the Project Engineers and the ESR to ensure that appropriate controls are installed to limit environmental impact.	Unexpected Finds Procedure <i>IM-</i> <i>PRO-0504-</i> <i>002</i>
The Project will work through the Clearing and Grubbing EWMS to ensure that all personnel understand the requirements for the activity.	Environmental Work Method Statement (EWMS)
Hold Points – place hold points relevant to this section below.	
N/A	





#### 6.7.2 NOXIOUS WEED MANAGEMENT

Safeguards	Source	Responsible Position	Output	
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS	
During Works				
See IPMP Noxious Weeds (Section 6.10.5.2) and Pathogens (6.10.5.3) and Construction Flora and Fauna Management Plan ( <u>Appendix 5</u> ), which includes the Projects Weed Management procedures. The Project shall also consider RMS Bushland Regeneration Plan and associated Weed Management Plan.				
Prior to any activities taking place on site the Project will engage their consultant to undertake a Pre-clearing Survey of the area.			Construction Flora and Fauna	
The introduction and spreading of weeds and pathogens caused by the Project should be controlled and managed, including hygiene protocols. In the event of a National Significant or priority weed being identified throughout the Project area, a Weed Management Strategy will be developed in accordance with Department of Primary Industries requirements and RMS Biodiversity Guidelines (Guide 7: Pathogen Management and Guide 6 Weed Management). If required, a weed management strategy will be developed to manage the ongoing weed problems.	G36 (4.8) CoA E9	ESR / Project Manager / Project Ecologist	Management Plan (CF&FMP) Weed Management Strategy	
The Project will implement the unexpected finds procedure for dealing with unexpected weed species finds.				
Hold Points – place hold points relevant to this section below.				
N/A				





#### 6.7.3 FAUNA MANAGEMENT

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
During Works			
See IPMP Biodiversity (Flora and Fauna) Management (Section 6.10.5) and Construction Flora and Fauna Management Plan (CFFMP) ( <u>Appendix 5</u> ).			
Prior to any activities taking place on site the Project will engage their consultant to undertake a Pre-clearing Survey of the area.			
The project will undertake staged clearing for habitat trees and strategies for the removal of habitat features from the construction zone in accordance with RMS Biodiversity Guidelines (Guide 9: Fauna Handling), the Projects Species Impact Statement and OEH concurrence conditions.	G36 (4.8) CoA E10, E11	ESR / Project Manager / Project Ecologist	Construction Flora and Fauna Management Plan (CF&FMP)
The Project will develop an EWMS, for clearing and grubbing and working within 20m waterways that meets the requirements of Specification RMS G40 and RMS publication "RMS Biodiversity Guidelines: Protecting and Managing Biodiversity on RMS Projects", Species Impact Statement requirements, and OEHs concurrence conditions.			
The Project will implement the unexpected finds procedure for dealing with unexpected threatened species finds.			
Hold Points – place hold points relevant to this section below.			
N/A			







#### 6.7.4 USE OF PESTICIDES & HERBICIDES

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
See IPMP Flora and Fauna Management (Section 6.10.5) and Construction Flora and Fauna (Biodiversity) Management Plan ( <u>Appendix 5</u> ), which includes weed management. The Project will complete an RMS Records Sheet within 24 hours of applying the pesticide and submit a copy to the Principal. The RMS Records Sheet will be preparing in accordance with the "Sample Pesticides Application Records Sheet". If the Project requires the use of pesticide in public places, they will notify RMS using the "RMS Public	G36 (4.12)	ESR / Project Manager	RMS Record Sheet RMS Public Notification of Pesticide Use Form
Notification of Pesticide Use Form", unless notification exemptions apply.			
Hold Points – place hold points relevant to this section below.			
N/A			







#### 6.8 HERITAGE

#### 6.8.1 ABORIGINAL HERITAGE

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Aboriginal and Non-Aboriginal Heritage (Section 6.10.4).	G36 (4.9)	ESR / Project Manager / Project Archaeologist	Unexpected Finds Procedure <i>IM-</i> <i>PRO-0504-</i> 002
The Project site induction will detail all obligations in relation to heritage under the National Parks and Wildlife Act 1974 before construction begins and Daracon's procedures and RMS guidelines and PACHCI if unanticipated heritage items or deposits are located during construction.			Environmental Inspection <i>IM-</i> <i>REP-0503-</i> <i>001</i>
Hold Points – place hold points relevant to this section be	elow.		
N/A			
During Works			
The Project will also implement RMS' management strategy of unexpected potential Aboriginal objects including cessation of work activities, in accordance with the RMS publication "Unexpected Heritage Items" and the RMS Unexpected Archaeological finds procedure (Roads and Maritime 2015).	G36 (4.9)	ESR / Project Manager / Project Archaeologist	Unexpected Finds Procedure <i>IM-</i> <i>PRO-0504-</i> <i>002</i> Environmental Inspection <i>IM-</i> <i>REP-0503-</i>
The Project will not recommence work in the affected work until the Principal has given permission to proceed.			001
Hold Points – place hold points relevant to this section below.			
N/A			





#### 6.8.2 NON-ABORIGINAL HERITAGE

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Aboriginal and Non-Aboriginal Heritage (Section 6.10.4). The Project will also implement RMS' management strategy of unexpected potential archaeological relics and/or human remains including cessation of work activities, in accordance with the RMS publication "Unexpected Heritage Items". The workers will be made aware of their responsibilities under the Heritage Act 1977 through the site induction. The induction will aim to promote an understanding of the State's Heritage, encourage conservation, identification of heritage items, and temporary protection of heritage items in the event of an unexpected find. If an unexpected find takes place the Project will cease work in the affected area until the Principal has given	G36 (4.10)	ESR / Project Manager / Project Archaeologist	Unexpected Finds Procedure <i>IM-PRO-</i> 0504-002
permission to proceed.			
Hold Points – place hold points relevant to this section below.			
N/A			







## 6.9 WASTE MANAGEMENT AND RESOURCE RECOVERY







Hold Points – place hold points relevant to this section b	elow.		
N/A			
During Works			
Material sampling and testing will be in accordance with the EPA's Waste Classification Guidelines including Virgin Excavated Natural Material (VENM) and Excavated Natural Material (ENM). All other waste will be managed in accordance with the Protection of the Environment Operations Act 1997.			
Other Project won materials will be managed in accordance with the EPA's Waste Classification Guidelines and RMS Waste Fact Sheet "Waste Sampling", "Excavated Public Road Materials", "Recovered Aggregates", and "Asbestos Waste".			
Both VENM and ENM where possible will be reused on site. If transporting of wastes generated is unavoidable and transport of waste for RMS to a location that is not a licensed waste facility (the "Waste Site"), the Project will submit to the Principal a completed and signed notice under section 143(3A) of the POEO Act ("s.143 Notice") and associated approval documentation such as a Development Application.			s143 Notice and associated documentation. Testing results for waste
All materials cleared, pruned, demolished, removed and grubbed will be removed from the site for recycling or disposal at suitable lawful locations. Disposal of exotic plant species will go to a licensed landfill facility.	G36 (4.11.4) CoA E81, E82, E83, E84	ESR / Project Manager	materials. Register for testing materials and locations of stockpiles
The Project will aim to use alternative fuels such as biofuels and power sources, for construction plant and equipment will where possible be selected for its energy efficiencies. Material such as aggregates, and asphalt will be reused back on the site where possible.			Environmental Inspection <i>IM-</i> <i>REP-0503-001</i>
No waste generated outside of the Project boundary is to be received on the Project. No Project waste is to be stored, treated, processed, reprocessed or disposed of outside of the Project boundary, unless it is permitted by a Resource Recovery Order and associated Exemption.			
The Project will ensure that activities are conducted in an environmentally satisfactory manner. Prior to leaving the Project all vehicles or containers will be clean and sealed in a manner that will not cause materials or wastes used in conducting the activities at the premises to be tracked, thrown from, blown, fall, or cast from any vehicle or container onto a public road.			





The Project will conduct site inductions for all employees and subcontractor personnel working on the Site to ensure that they are aware of the waste disposal protocols.		
Hold Points - G36 Section 4 11 4		

**Process Held:** Transport of waste to a place that is not owned by RMS and is not a licensed waste facility.

**Submission Details:** Completed and signed original copy of "s.143 Notice" received from the landholder receiving the waste with evidence that the Waste Site has the appropriate planning consent.

**Release of Hold Point:** The Principal will consider the submitted documents prior to authorising the release of the Hold Point. The Principal may request additional information in respect of the submitted documents.





## 6.10 WORK IN ENVIRONMENTALLY SENSITIVE AREAS

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works			
See IPMP Sensitive Areas (Section 6.10.5.1) and Construction Flora and Fauna Management Plan ( <u>Appendix 5</u> ) and Construction Noise and Vibration management Plan (CNVMP) ( <u>Appendix 7</u> ).		ESR / Project Manager / Project Ecologist	
The Project has the following sensitive receivers:			
Dark Creek.			Sensitive Area Maps
Noise sensitive receivers	G36 (4.13)		Environmental Work Method Statements (EWMS)
Sensitive Area Maps detail the location of each identified area ( <u>Appendix 15</u> ).			
The Project will at least five (5) working days prior to commencing Physical Work on Site in or near an environmentally sensitive area, prepare an EWMS which includes the details of the environmental protection measures to be implemented at that location.			
Hold Points – G36 Section 4.13			
<ul> <li>Process Held: Working in or near environmentally sensitive areas.</li> <li>Submission: At least five (5) working days prior, provide to the Principal a copy of the EWMS for working in or near the environmentally sensitive areas and written notice that the environmentally sensitive areas are clearly delineated with locations and boundaries signposted.</li> <li>Release of Hold Point: The Principal will consider the submitted documents prior to authorising the release of the Hold Point.</li> </ul>			
During Works			
Clearly delineate the environmentally sensitive area and signpost the locations and boundaries.	G36 (4.13)	ESR / Project Manager / Project Ecologist	Sensitive Area Maps Environmental Work Method Statements (EWMS)
Hold Points – place hold points relevant to this section be	elow.		
N/A			





## 6.11 ENVIRONMENTAL INCIDENT AND REPORTING

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
<ul> <li>See IPMP Incident Management (Section 9)</li> <li>The Project will also manage and report environmental incidents, including "pollution incidents", in accordance with the RMS "Environmental Incident Classification and Reporting Procedure" and RMS "Environmental Incident Report".</li> <li>The Project will notify RMS verbally immediately and in writing within 24 hours, of any pollution incidents which have been reported to the EPA under Part 5.7 of the POEO Act.</li> <li>All other environmental incidents will be reported to the Principal verbally immediately and in writing within 24 hours of the incident coming to your attention. The Principal verbally immediately and in writing within 24 hours of the incident coming to your attention. The Principal werbally immediately and in writing within 24 hours of the incident coming to your attention. The Principal will be notified when any environmental incidents have been reported to the relevant authorities as required under the relevant NSW environmental legislation.</li> <li>The Principal may request additional information in relation to any environmental incident. The Project will provide the Principal with all information requested within the agreed timeframe but no later than 3 working days.</li> <li>Daracon will notify RMS of any visit at the Project by the EPA and/or other Government agencies. The Project will prepare a report for each occasion when the Site is visited by the EPA and/or other Government agencies visit, and of all actions taken by you in response to the EPA and/or other Government agencies visit. The report will be submitted to RMS within one (1) working day of the EPA and/or other Government agencies site visit.</li> </ul>	G36 (4.14)	ESR / Project Manager / Project Engineer	Incident Reporting and Investigation procedure IM-PRO- 0306-001
Hold Points – place hold points relevant to this section below.			





## 6.12 SITE FACILITIES

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Pre-Commencement of Works		•	
See Ancillary Facilities Establishment Management Plan (AFEMP) ( <u>Appendix 2</u> ). Daracon will locate and manage site facilities to minimize impacts on the environment and the community.			
The following additional environmental protection requirements apply for site compounds, stockpile sites and any other construction facilities:			
<ul> <li>Compounds, storage areas, stockpiles and associated works will be located in cleared or disturbed areas;</li> </ul>			
<ul> <li>plan the layout of each site compound or facility to retain as many existing trees as possible and to minimise plant and vehicle movements;</li> </ul>		4.15) A5, A15, A17, A19, A21	Ancillary
<ul> <li>the compound area and access routes will be covered with a sealed hard stand base and regularly maintained to prevent soil erosion and reduce dust generation;</li> </ul>	G36 (4.15)		Establishment Management Plan (AFEMP)
<ul> <li>all chemicals, paints, fuel and liquids will be stored within a bunded area at the compound site. This area will be impervious and have a water proof canopy to stop influx of water into the bund,</li> </ul>	A14, A15, A16, A17, A18, A19, A20, A21		Erosion & Sediment Control Plan (ESCP) Pre-
<ul> <li>refuelling of all machinery will be undertaken in an appropriately bunded area on an impervious surface;</li> </ul>			construction land condition assessment
<ul> <li>Erosion and Sedimentation Control Plan (ESCP) prepared in accordance with specification RMS G38 will include your site compounds, stockpile sites and other storage areas;</li> </ul>			
<ul> <li>the toe of stockpiles must not be any closer than 3 m to a fence, drain or existing trees to be retained, unless otherwise approved by the Principal;</li> </ul>			
<ul> <li>control and treatment of site compound run-off before discharging into downstream waterways;</li> </ul>			
<ul> <li>designated parking areas will be identified and marked within each site compound and be clear of the drip line of any trees to be retained.</li> </ul>			





If any site compounds or stockpile sites or other construction facilities are to be established outside the road reserve/or outside land owned or leased by the RMS or which the RMS is otherwise authorised to occupy, the Project will undertake an additional environmental assessment in accordance with the relevant legislation and obtain any additional approvals required.			
Prior to taking possession of any area of land nominated by the RMS as available for use by locating site facilities, including areas for construction materials storage and stockpiling, the Project will arrange for a pre-construction land condition assessment of each area the Project intends to occupy. The Report will be in the format detailed in the RMS publication "Management of Wastes on Roads and Maritime Services Land".			
Hold Points (4.15.2) – G36 Section 4.15.2			
<b>Process Held:</b> Taking possession of any land nominated or authorised by RMS for use for the site facilities.			
<b>Submission:</b> Pre-construction land condition assessment report for each area, which the Project intends to use for the site facilities, and evidence of any necessary statutory and environmental approvals.			
<b>Release of Hold Point:</b> The Principal will consider the submitted report and may inspect the site or request additional information in respect of the submitted report, prior to authorising the release of the Hold Point.			
Post Completion of Works			
When the Project site facility areas are no longer required, and after restoration of the areas, the Project will arrange for a post-construction land condition assessment for each area that has been used. The Report will be in the format detailed in the RMS publication "Management of Wastes on Roads and Maritime Services Land".	G36 (4.15.3)	Project manager	Post- construction land condition assessment
Hold Points – place hold points relevant to this section below.			
N/A			





## 6.13 RESTORATION OF SITE

Safeguards	Source	Responsible Position	Output
i.e. Mitigation Measures	i.e. Clause	i.e. ENV Manager	i.e. EWMS
Post Completion of Works			
Prior to Completion, restore of any areas disturbed by the Project (such as areas for site compounds, material storage, access and haul roads and the provision of the Principal's project accommodation) to a condition similar to that existing before disturbance, unless authorised otherwise by the Principal. Restoration will include spill clean-up and soil remediation where applicable, top-soiling of the area, weed control and seeding, planting, watering and	G36 (4.16)	ESR / Project Manager /	
All restoration is to be undertaken progressively and maintained. Leaving the work site tidy and free of rubbish at the end of each work day and remove all temporary site facilities, temporary erosion control devices, sediment in drainage lines, unused construction materials and waste material upon completion of the project.		Project Engineer	
Hold Points – place hold points relevant to this section below.			
N/A			





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# 7 ACCOUNTABILITY

#### 7.1 MANAGING DIRECTOR

The Managing Director shall ensure that all resources needed to fulfil the requirements outlined within this plan are made available. The Managing Director shall hold all relevant managers accountable to implement and monitor all applicable requirements within this Sub-Plan.

#### 7.2 MANAGER RESPONSIBLE FOR DARACON GROUP SYSTEMS

The Manager responsible for Daracon Group Systems shall ensure that the requirements of this plan are effectively implemented. This shall be completed by implementing adequate review and monitoring processes to ensure compliance with this Sub-Plan.

#### 7.3 GENERAL AND DIVISIONAL MANAGERS

Senior Management (*General and Divisional Managers*) are required to have a strong understanding of the requirements of this Plan applicable to their projects. They are to ensure requirements outlined within are effectively implemented and monitored across all their responsible operational areas of the business.

#### 7.4 SITE MANAGEMENT PERSONNEL

Site Management Personnel are required to have a strong understanding of the requirements in this Plan to ensure effective implementation on the project. Site Management must hold all workers on this project accountable to follow and work in accordance with this Sub-Plan.

#### 7.5 ENVIRONMENTAL SITE REPRESENTATIVE (ESR)

The Environmental Site Representative (ESR) nominated in the Organisation Chart in Appendix 1 of the IPMP will be suitably qualified and is responsible to ensure the onsite matters relating to Environmental Management are implemented effectively and as per regulatory requirements and contractual specifications.

#### 7.6 ENVIRONMENTAL MANAGEMENT REPRESENTATIVE (EMR)

The Environmental Management Representative (EMR) will be located offsite for the duration of the project however will have the overall responsibility to ensure that the Environmental Site Representative is held accountable to ensure the onsite matters relating to Environmental Management are implemented effectively and as per regulatory requirements and RMS specifications.

The EMR will attend site from time to time to assist the project team relating to Environmental Management on the project and will be available via phone and email.

#### 7.7 COMMUNITY LIAISON REPRESENTATIVE

The Community Liaison Representative (CLR) nominated in the Organisation Chart in Appendix 1 of the IPMP will be suitably qualified and is responsible to ensure the onsite matters relating to Community Management are implemented effectively and as per regulatory requirements and contractual specifications.



# DARACON

#### 7.8 DARACON WORKERS

All Daracon workers shall fully comply with the requirements of this Sub-Plan.

#### 7.9 SUBCONTRACTORS

Where Subcontractors are working under the Daracon Management System on this project, all Subcontractors and their workers shall fully comply with the requirements of this Sub-Plan. See IPMP *Subcontractors & Suppliers* (6.5).

# 8 **DEFINITIONS**

All terms referenced within this plan are included within <u>**REG.00001**</u> Definitions & Glossary of Terms Register.

# 9 ASSOCIATED DOCUMENTS AND PROCEDURES

Approved Forms, Process Flowcharts, Registers and/or other documents referenced within the body of, or those that are associated with this plan, are accessible and made available for all Daracon personnel via the following link: <u>https://dms.daracon.com.au/</u>





# **APPENDIX 1** Approvals Matrix



# APPENDIX 2 Ancillary Facilities Establishment Management



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# **APPENDIX 3** Air Quality Management Plan



# APPENDIX 4 Construction Community Liaison Management Plan

The Construction Community Liaison Management Plan (CCLMP) will be submitted to RMS in a staged submission.

# **APPENDIX 5** Construction Flora and Fauna Management Plan



# APPENDIX 6 Construction Flood Risk Management Plan



# APPENDIX 7 Construction Noise and Vibration Management Plan







The Construction Noise and Vibration Management Plan (CNVMP) will be submitted to RMS in a staged submission.

# **APPENDIX 8** Pollution Incident Response Management Plan



# **APPENDIX 9** Resource and Waste Management Plan





# Soil and Water Management Plan



# APPENDIX 11 Unexpected Contaminated Land and

## **Asbestos Finds Procedure**



# APPENDIX 12 Ministers Conditions of Approval

## **APPENDIX 13**

## Daracon; Environmental Management





## **APPENDIX 14**

## **Roads and Maritime Service CEMPP**









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# APPENDIX 15 Sensitive Receiver Maps



Sensitive Areas Map 2.pdf

# APPENDIX 16 Environmental Work Method Statements

EWMS will be submitted to RMS in a staged submission, to meet the requirements of the project program and prior to the commencement of specific works activities.



