

# Pacific Highway Upgrade: Warrell Creek to Nambucca Heads

# Pollution Incident Response Management Plan WC2NH-EN-CS-MPL-0001 PIRMP Rev 3

Rev	Description	Originator	Reviewed	Approved	Date
А	Draft for internal review	RP	CS	NR	10/03/15
0	Issued for Construction	NR	JS	GR	19/03/15
1	Internal Review	JH	NR	NR	17/08/16
2	Internal Review	AD	AD	AD	07/09/17
3	Internal Review	JH	JH	JH	22/02/19

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



#### **Details of Revision Amendments**

#### Plan Control

The latest approved version of this Plan will be available for all Project personnel on the Electronic Document Management System - TeamBinder. The functional manager will maintain, review and update this Plan at least annually.

#### **Amendments**

Each new revision to the Plan will be distributed to all required personnel for review and approval.

The revision number is included at the end of the document number, which is noted in the footer of each page. The document will be allocated a new revision number each time a change is made to the document.

When a new revision to the document is available, a notification email will be distributed to all project personnel by the Document Control Team advising of the update.

The functional Manager is responsible for the implementation and review of the Plan. The Project Director will approve new revisions of the Plan via the review and approval process as detailed in the Document Control Procedure.

Functional Manager Authorisation	Distribution List
Name: Jason Haslett	Project Director
Date: 22/02/2019	Design Manager
Position: Environment Manager	Quality Manager
Signature:	Procurement Manager
Comments:	Construction Manager
	Safety Manager
	Commercial Manager
	Environmental Manager
Project Director Authorisation	Finance Manager
Name: Manuel Gil	Engineer Manager
Date: 22/02/2019	Area Manager
Signature:	Human Resources Manager
Comments:	Site Superintendents
	Roads and Maritime Services
	IMS Manager
	Other:

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 2 of 39





# Contents

Details	s of Revision Amendments	
	and Abbreviations	
1.	Introduction	7
1.1.	Project Background	
1.2.	Purpose	
1.3.	Scope	8
1.4.	Meaning of material harm to the environment	8
1.5.	Legislation and Other Requirements	8
2.	Key Responsibilities and Accountabilities	8
2.1.	Key Staff	8
2.1.	,	
2.1.2		
2.1.3		
2.1.4	3	
2.1.0		
2.1.		
2.1.8	8. Workers	10
3.	Hazard identification and risk assessment	11
3.1.	Risk assessment methodology	
3.2.	Environmentally Sensitive Areas	
3.3.	Environmental Hazards	
4.	Preventative measures	
5.	PIRMP implementation and notification	12
5.1.	PIRMP Activation	
5.2.	Actions to be taken during or immediately after a pollution incident	
5.3.	Detailed actions to prevent adverse impact to the environment	
5.4.	Additional Resources	
5.	Documentation	
6.1.	Sensitive Area Maps	
6.2.	Inventory of pollutants	
6.3.	Availability of PIRMP	
7.	Continual improvement	
7.1.	Training and testing	
	IDICES	
	dix 1: Compliance Matrix	
	dix 2: Risk matrix criteria (consequence and likelihood)	
Appen	dix 3: Results of preliminary risk assessment	25

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 3 of 39



Appendix 4 - Pollution Incident Notification Flow Chart	34
Appendix 5: Pollution Notification Protocol	35
Appendix 6: Sensitive Area Plans – Location of Chemical Storage Facilities	38
Appendix 7: Chemical Manifest	39

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 4 of 39





# Terms and Abbreviations

AADJV	Arup and Aurecon Design Joint Venture
ACCIONA	ACCIONA Infrastructure Australia Pty Ltd
ALARP	As low as reasonably practical
AFJV	ACCIONA and Ferrovial Joint Venture (Pacifico)
AS/NZS	Australian and New Zealand Standard
BAU	Business As Usual
CEMP	Construction Environmental Management Plan
D&C	Design and Construction
EDMS	Electronic Document Management System (TeamBinder)
EPA	NSW Environmental Protection Authority
EPL	Environmental Protection Licence
ER	Environmental Representative for the Department of Planning and Environment
Ferrovial	Ferrovial Agroman (Australia) Pty Ltd
IMS	Integrated Management System
ISO	International Standards Organisation
KPI	Key Performance Indicator
NSW	New South Wales
O&M	Operations and Maintenance
Pacifico	Acciona Ferrovial Joint Venture
PIRMP	Pollution Incident Response Management Plan
POEO Act	Protection of the Environment Operations Act 1997
PCBU	Person Conducting a Business or Undertaking
PMT	Project Management Team
PV	Project Verifier
RMS	Roads and Maritime Services

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 5 of 39



SWMS	Safe Work Method Statement
WC2NH	Warrell Creek to Nambucca Heads (the Project)

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 6 of 39



#### 1. Introduction

The Pacific Highway Warrell Creek to Nambucca Heads Upgrade project (the Project) is being designed and constructed in a joint venture consisting of ACCIONA Infrastructures Pty Ltd (ACCIONA) and Ferrovial Agroman (Australia) Pty Ltd (Ferrovial), known as Pacifico (herein known as AFJV).

This Pollution Incident Response Management Plan (PIRMP) has been prepared to comply with requirements set out in part 5.7A of the *Protection of the Environment Operations Act 1997* (the POEO Act), stating that holders of an Environment Protection Licence (EPL) must prepare, implement and test a Pollution Incident Response Management Plan (PIRMP) in relation to the activity to which that licence relates.

The EPL (no. 20533) for the Project is held by ACCIONA.

#### 1.1. Project Background

The Project consists of the detailed design and construction of 19.6 km of new dual carriageway road on the Pacific Highway between the northern end of the existing Allgomera Deviation south of Warrell Creek and the southern end of the Nambucca Heads to Urunga Pacific Highway upgrade project west of Nambucca Heads. The Project includes:

- 19.6 km of new divided dual carriageway;
- two grade separated interchanges at Warrell Creek and Bald Hill Road south of Macksville;
- the provision of north facing ramps at North Macksville;
- longitudinal bridges across Upper Warrell Creek (including North Coast Railway Line), Williamson Creek,
   Warrell Creek, Nambucca River floodplain (2 of) and Nambucca River;
- overbridges on Rosewood Road, Albert Drive, Scotts Heads Quarry access road, Bald Hill Road, Old Coast Road South, Mattick Road and Old Coast Road North;
- an underpass of the ARTC rail line near Cockburns Lane;
- local roads and drainage and fauna crossing structures; and
- associated infrastructure.

The construction of the Project is subject to the licensing provisions of the POEO Act, as a 'Scheduled activity-premises based', due to the following activities:

- crushing, grinding or separating;
- railway systems activities;
- land-based extractive activities; and
- road construction.

#### 1.2. Purpose

This PIRMP has been prepared in accordance with the EPA's Environmental guidelines: Preparation of pollution incident response management plans (EPA, 2012).

To comply with the POEO Act, this PIRMP identifies:

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 7 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



- pollution risks and measures that would prevent an incident from occurring;
- further contingency measures that may be applied to minimise the risk of an incident from causing environmental harm;
- protocols for notifying a pollution incident, to the relevant authorities and stakeholders (including the community); and
- requirements for training of staff, in relation to the plan and its implementation, and ensure the plan is regularly reviewed and tested for accuracy, currency and suitability.

This PIRMP is to be implemented in the event that material harm to the environment is caused or threatened.

#### 1.3. Scope

This PIRMP applies to the (the Project), which is being constructed by the Pacifico - Acciona Ferrovial Joint Venture (AFJV), and relates to those activities of the Project premises as defined by the EPL and under the control of the AFJV.

This PIRMP excludes any activities that occur off the premises, for example the transportation of bulk fuel or hazardous waste by a contractor licensed by the EPA, unless the transportation activity is being undertaken on the premises under the control of the AFJV.

#### 1.4. Meaning of material harm to the environment

For the purposes of this PIRMP, harm to the environment is material if:

- it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
- it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations)

Loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or remediate harm to the environment. For the purposes of this Part, it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs.

The Environment Manager will determine if an incident is likely to cause or threaten material harm to the environment and if the PIRMP is to be activated. This decision shall be made in consultation with the Project Director.

#### 1.5. Legislation and Other Requirements

Subject to Part 5.7A of the POEO Act, AFJV is required to prepare and implement a pollution and incident response plan. Accordingly, all relevant provisions of the POEO Act in regards to pollution incident management have been reviewed in the preparation of this PIRMP, to comply with the relevant legislative requirements. A compliance matrix has been established illustrating AFJV compliance to the legislative requirements, and is provided in Appendix 1.

#### 2. Key Responsibilities and Accountabilities

#### 2.1. Key Staff

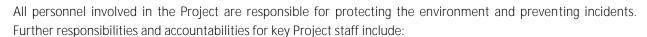
The organisational chart and details of key personnel will be maintained on site and displayed in relevant locations. The roles and responsibilities of the Project Management Team (PMT) and other workers are as described below in relation to this PIRMP.

All staff will be aware of their responsibilities through specific position descriptions, and shall follow the processes

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 8 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads

and procedures as outlined in this PIRMP.



#### 2.1.1.Project Director

- Responsible for the Project and responsible to ensure that the measures of this PIRMP are followed;
- Responsible for the Project compliance with the POEO Act;
- Responsible for directing works during or immediately after an incident.

#### 2.1.2. Construction Manager/Area Managers/General Superintendent/Project Engineers

- Ensure all environmental incidents are notified to the Environment Manager immediately and without delay;
- Provide appropriate support and resources to incident response in terms of labour, materials and resources;
- Assist Project Director and Environment Manager in directing works during or immediately after an incident;

#### 2.1.3. Safety Manager

- Implement notification protocol for relevant agencies;
- Point of contact with Emergency Services and Workcover in the event of an incident;
- Ensure Emergency Response Plan is consistent with the PIRMP;
- Provide advice in relation to any incident where there is safety risk.

#### 2.1.4.Environment Manager

- Ensure PIRMP is prepared, maintained and tested;
- Ensure environmental monitoring data is collected and displayed on company website;
- First point of contact in relation to an Environmental Incident;
- Assist the Project Director in directing works during or immediately after an incident;
- Activate the PIRMP in the event of an incident which causes or threatens environmental harm;
- Point of contact with EPA and other environmental authorities in the event of an incident;
- Undertake additional risk assessments for high risk activities requiring an EWMS.

#### 2.1.5. Community Relations Manager

Implementation of (community) notification protocol in the event of an incident;

#### 2.1.6. Traffic Manager

- Provide traffic control if incident has occurred on the highway or local road;
- Provide assistance to direct works if incident occurs on highway or local road.

#### 2.1.7. Supervisory Personnel (Area Superintendents, Foremen, Site Engineers)

- Ensure all environmental incidents are notified to the Environment Manager immediately and without delay;
- Assist Project Director in directing on site response to incidents (implementation of preventative and remedial measures) including allocation of appropriate resources.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 9 of 39



Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



#### 2.1.8.Workers

- Immediately notify Superintendent or Environment Manager in the event of any pollution incident
- Assist with the incident response on site at the direction of their supervisor.

Further details of roles and responsibilities is provided in the Environmental Management Plan.

The contact details for those key staff members responsible for this PIRMP are identified in Table 1.

Table 1 Contact Details of Key Personnel Associated with the PIRMP

Role	Name	Deputy
Project Director	Manuel Gil 0418757639	Luis Prieto0412638266
Environment Manager	Jason Haslett 0401006099	
Safety Manager	lan Gadsden 0424163982	
Environmental Representative	David Bone 0407461092	
Project Superintendent	Craig Scaysbrook 0478311412	
Community Relations Manager	Bruce Miller 0401845374	
Traffic Manager	Craig Nethery 0412009558	

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 10 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



#### 3. Hazard identification and risk assessment

#### 3.1. Risk assessment methodology

A risk assessment was undertaken for the various construction phases to:

- Identify the activities and related equipment and plant that may cause a 'Pollution Incident' for the various stages of construction
- Assess the risk of an incident occurring (likelihood and severity)
- Identify existing 'Business as Usual' (BAU) controls
- Identify any additional controls/ contingency measures required to further mitigate the impacts arising from any pollution incident.

Risk Criteria applied in the risk assessment is provided in Appendix 2. The results of the risk assessment are provided in Appendix 3.

Further Risk Assessments will be undertaken for specific work packages during the detailed construction planning phases and when there is a significant change in project activities. Risk assessments will also be undertaken in the preparation of Environmental Work Method Statements (EWMS's) for activities that pose a potential risk to the environment.

#### 3.2. Environmentally Sensitive Areas

Environmentally Sensitive areas identified by the Risk Assessment include:

- Major waterways including the Nambucca River (including oyster farms) and Warrell Creek;
- Other Class 1 and 2 waterways;
- Giant Barred Frog Habitat (GBF) in upper Warrell Creek and potential GBF in Butchers Creek;
- SEPP 14 Wetlands:
- Koala and Quoll Habitat;
- Ecologically Endangered vegetation Communities;
- Threatened flora species no-go zones;
- Heritage significant sites;
- · Residential areas including Macksville and Macksville Hospital; and
- Greyheaded Flying Fox habitat.

Further details are provided in the Environmentally Sensitive Area Plans, provided in Appendix A6 of the CEMP.

Specific EWMS for high risk activities will identify local sensitive environments relevant to the specific activity.

#### 3.3. Environmental Hazards

Potential Environmental Hazards identified by the Risk Assessment include:

- Sediment laden run-off into waterways;
- Mulch tannin leachate contamination of the waterways;
- Acid Sulfate Soils, Rock and contaminated material including low pH leachate run-off into waterways and acidification of groundwater/soil;
- Fuel which may be stored in bulk, in small containers or minitankers for use on site;
- Bulk chemicals such as bitumen seal and priming agents;
- Hazardous Storage Containers associated with Bridge Construction;
- Chemical storage associated with the Asphalt Batch Plant;

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 11 of 39

Pacifico

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads

- Miscellaneous Chemicals such as pesticides, sealants, paints, lubricants, oil and grease; and
- Cement dust.

#### 4. Preventative measures

Pre-emptive measures (Environmental Controls) to minimise the risk of an incident occurring that were identified as part of the Risk Assessment include:

- Erosion and Sediment Controls (sediment basins/drainage etc);
- Mulch Management Protocol;
- Oil Containment booms, spill kits and absorbent materials;
- Double skinned bunding of bulk fuel storage facilities;
- Fire Fighting equipment kept on site at appropriate locations;
- Storage of chemicals/fuels in bunded and covered areas;
- Vehicle re-fuelling procedure;
- Triple interceptor and containment measures at the Asphalt Batch Plant;
- Neutralising agents (for pollutants with High or Low pH); and
- Additional materials such as pumps, hoses, geofabric etc to be deployed if required.

#### 5. PIRMP implementation and notification

#### 5.1. PIRMP Activation

The Environment Manager will be responsible for the activation of the PIRMP if they are satisfied that the incident has caused or threatened environmental harm.

The PIRMP activation flow chart is provided in Appendix 4. Pollution notification protocols for notification to Community Stakeholders and to Authorities are provided in Appendix 5.

#### 5.2. Actions to be taken during or immediately after a pollution incident

Actions to be taken immediately in the event of an incident that causes or threatens material harm to the environment will depend on the incident type and severity. These are summarised in Table 2.

Table 2 List of actions in response to a pollution incident

Action	Responsibility	Timing
Site actions		
Assess the situation, stop work, shut down equipment and evacuate the work area if required	All	Immediately
ONLY IF SAFE TO DO SO: take immediate actions to prevent adverse impact to the environment or community (refer below)	All	Immediately
Ensure the cleanup of the incident as appropriate. Specialist contractors may be engaged if required.	Site Supervisor	As soon as safe to do so

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 12 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



Action	Responsibility	Timing
Undertake appropriate environmental monitoring in environmentally sensitive areas to monitor the impact of the incident and effectiveness of cleanup measures so that further mitigative measures can be identified and implemented as appropriate	Environment Manager	As required
Notifications		
In each work area the relevant Supervisor and Superintendent are to be notified of the incident (immediately and without delay)	Any witness to the incident	Immediately and without delay
Notify the Environment Manager (refer to table 1) for contact details	Supervisor of Work Area	Immediately and without delay
Notify Project Director, Safety Manager and Community Relations Manager	Environment Manager	Immediately and without delay
Implement Authorities Notification Protocol (refer to Appendices 1 and 2)	Environment Manger/Safety Manager	Immediately and without delay
Implement Community Notification Protocol (refer to Appendices 1 and 2)	Community Relations Manager	Immediately and without delay

Note: Immediately and without delay means as soon as AFJV are aware of the incident, not following an initial investigation to determine the causes etc. EPA have taken regulatory action against projects who do not comply with this requirement (even when the incident is notified to them within 3-4 hours of the incident occurring).

#### 5.3. Detailed actions to prevent adverse impact to the environment

Detailed Actions to prevent adverse impact to the environment as caused by a pollution incident are described below:

- If the Pollution Incident cannot be SAFELY controlled or mitigated with the available resources on site the emergency authorities (Fire Brigade etc) will attend to the incident and implement any necessary measures. The emergency authorities will control the site.
- If the Pollution Incident can be SAFELY controlled or mitigated with the available resources on site.
   The following detailed actions shall be undertaken under the direction of the relevant site supervisor [CORRECT PPE SHALL BE WORN IN ACCORDANCE WITH RELEVANT SDS].
  - o Isolate the source of pollution: e.g. by shutting off valves, relocating oil drums to bunded area, redirecting discharge points away from sensitive environmental areas;
  - o Contain the pollution using available resources on site including spill kits, oil containment booms, sand bags, mulch material, geofabric;
  - o Protect any environmentally sensitive area from pollution using available resources. These may include known areas of critically endangered habitat or the Nambucca River oyster leases;
  - o Clean up the pollution (both on site and off site) using available resources such as sand, flocculants,

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 13 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



spill kits, oil booms, mulch. Materials to be used will depend on the scale and nature of the incident;

- o If additional resources are required such as sucker trucks, these shall be ordered to site as soon as it is safe to do so; and
- o Dispose of any contamination and materials in accordance with EPA waste classification and disposal requirements.
- When the pollution incident has been effectively cleaned up, a visual inspection shall be undertaken of the environment downstream from where the incident occurred. The inspection shall be undertaken by the Environment Manager to determine whether the mitigation and cleanup actions have been effective. The Environment Manager shall determine whether or not additional investigations shall be undertaken. This will depend on the nature of the pollution incident and may include but not be limited to:
  - o Additional water testing for relevant contaminants such as suspended solids and hydrocarbons;
  - o Ecological monitoring to determine the effects of the pollution incident on flora and/or fauna;
  - o Groundwater or Soil contamination testing; and
  - o Monitoring of airborne contaminants such as fumes, asbestos.

Further details are provided in the Emergency Response Plan.

#### 5.4. Additional Resources

Additional resources and/or expertise may be required in the event of an incident. Some relevant resources are provided in Table 3.

Table 3 Suppliers and Specialists Contact List

Specialist area	Contact
Project Ecologist	David Havilah (Geolink)
Soil contamination	Coffey Geosciences
Groundwater quality	Geolink
Sucker truck	Cable and Pipe Relocations
Occupational hygienist	Banksia
Spill Kits/Oil Booms etc	Global Spill
Arborist	Arbpro
Project Archaeologist	Jacobs Consulting
Project Soil Conservationist	Soil Conservation Service

#### 6. Documentation

#### 6.1. Sensitive Area Maps

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 14 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



The Sensitive Area Plans of the CEMP (Appendix A6) will be kept in a visible location on site. The Plans will be kept up to date.

#### 6.2. Inventory of pollutants

An inventory of pollutants kept or used for the Project has been prepared. The pollutant inventory includes details of chemicals and fuels stored or used on the premises, the approximate volume and location of storage.

### 6.3. Availability of PIRMP

This PIRMP will be available to all Project personnel and will be available at the premises in written and electronic form. The PIRMP will be made available to an EPA officer on request.

Specific sections of this PIRMP will be made publically available on the ACCIONA website. A hardcopy will be forwarded to any person making a written request for a copy. The summary statement of the PIRMP will:

- Include procedures for contacting relevant authorities; and
- Include procedures for communication with the community.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 15 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



# 7. Continual improvement

#### 7.1. Training and testing

To ensure that the PIRMP is implemented effectively in the event of an incident, the following training and testing programme shown in Table 4 will be implemented.

Table 4 Training and testing programme

Focus	Timing	Key personnel	
<ul> <li>PIRMP key requirements:</li> <li>onsite incident response (actions)</li> <li>notifications protocol</li> <li>key safety requirements</li> </ul>	Within 3 months of the commencement of construction	<ul> <li>Project Director</li> <li>Environment Manager</li> <li>Construction Manager</li> <li>Project Superintendent</li> <li>Safety Manager</li> <li>Community Relations Manager</li> </ul>	
PIRMP desktop     test/Emergency Drill	Annually     Within 1 month of a major incident	<ul> <li>Project Director</li> <li>Environment Manager</li> <li>Construction Manager</li> <li>Project Superintendent</li> <li>Safety Manager</li> <li>Community Relations Manager</li> </ul>	

Note: All relevant workers and subcontractors will be inducted into the requirements of the PIRMP through the site induction and toolbox training as required, while a targeted training session will be held for those persons with specific responses relating to PIRMP activation and implementation.

Records of Training will be held by the AFJV Training Manager.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 16 of 39



# **APPENDICES**

# Appendix 1: Compliance Matrix

The below table illustrates compliance with the project documents, statutory and legislative requirements.

Legislation	Section / Clause	Requirements	AFJV comments
POEO Act	Part 5.7A	Duty to prepare and implement pollution incident response management plans	
POEO Act	153A	153A Duty of licence holder to prepare pollution incident response management plan  The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.  Maximum penalty:  a) in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues, or  b) in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.  Note. An offence against this section committed by a corporation is an executive liability offence attracting executive liability for a director or other person involved in the management of the corporation—see section 169A.	ACCIONA holds an environmental protection licence. This PIRMP has been prepared by AFJV to comply with this requirement.
POEO Act	153B	<ul> <li>153B EPA may direct other persons to prepare pollution incident response management plan</li> <li>(1) The EPA may, in accordance with the regulations, require the occupier of premises at which industry is carried out to prepare a pollution incident response management plan that complies with this Part in relation to activities at the premises.</li> <li>(2) A person must not fail to comply with such a requirement.</li> <li>Maximum penalty:</li> <li>(a) in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the</li> </ul>	ACCIONA holds an environmental protection licence. This PIRMP has been prepared by AFJV to comply with this requirement.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 17 of 39

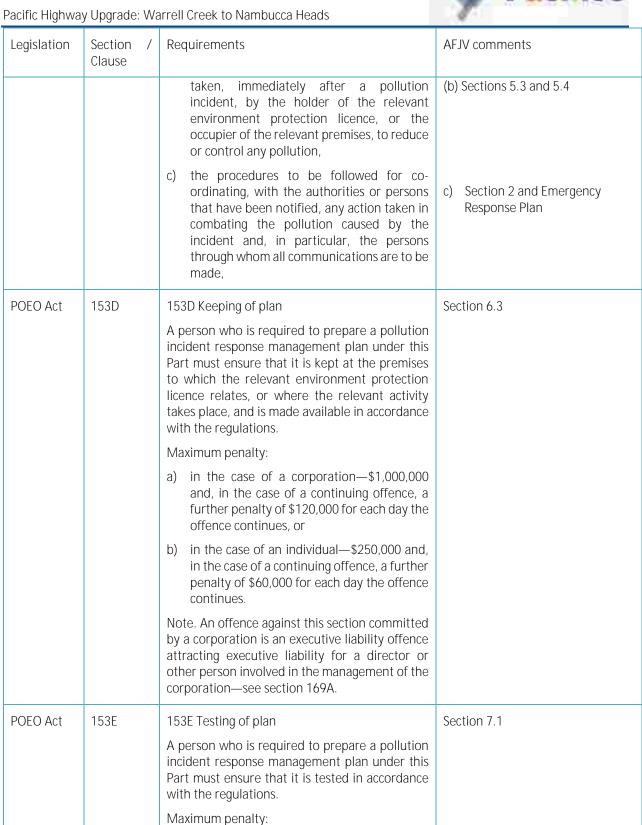




Legislation	Section Clause	/	Requirements	AFJV comments
			offence continues, or	
			(b) in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.	
			Note. An offence against subsection (2) committed by a corporation is an executive liability offence attracting executive liability for a director or other person involved in the management of the corporation—see section 169A.	
			(3) The regulations may make provision for or with respect to:	
			(a) the class or classes of premises, or industries carried out at premises, that may be the subject of a requirement to prepare a pollution incident response management plan, and	
			(b) the circumstances in which some or all premises within those classes may be the subject of a requirement to prepare a pollution incident response management plan.	
POEO Act	153C		153C Information to be included in plan	(a) Section 5, Appendices 4&5
			A pollution incident response management plan must be in the form required by the regulations and must include the following:	
			a) the procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to:	
			<ul> <li>the owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and</li> </ul>	
			ii. the local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and	
			iii. any persons or authorities required to be notified by Part 5.7,	
			b) a detailed description of the action to be	

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 18 of 39





Pacifico

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 19 of 39

a) in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the

offence continues, or





Legislation	Section Clause	/	Requirements	AFJV comments
			b) in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.	
			Note. An offence against this section committed by a corporation is an executive liability offence attracting executive liability for a director or other person involved in the management of the corporation—see section 169A.	
POEO Act	153F		153F Implementation of plan	Section 5
			If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147) is caused or threatened, the person carrying on the activity must immediately implement any pollution incident response management plan in relation to the activity required by this Part.	
			Penalties apply	
POEO(G)	98C		98C Additional matters to be included in plan	Section 3 3, 4 and 5, and Appendix 2
Regulation		1	Note. See also section 153C (a)–(c) of the Act.	and 3.
			(1) General	
			The matters required under section 153C (d) of the Act to be included in a plan are as follows:	
			(a) a description of the hazards to human health or the environment associated with the activity to which the licence relates (the relevant activity),	
			(b) the likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,	
			(c) details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity,	
			(d) an inventory of potential pollutants on the premises or used in carrying out the relevant activity,	
			(e) the maximum quantity of any pollutant that is likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the licence relates,	

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 20 of 39





Legislation	Section Clause	/	Requirements	AFJV comments
			(f) a description of the safety equi- other devices that are used to the risks to human health environment and to contain or pollution incident,	minimise or the
			(g) the names, positions and 24-hou details of those key individuals w	
			i. are responsible for activating the	plan, and
			ii. are authorised to notify authorities under section 148 o and	relevant f the Act,
			iii. are responsible for manaç response to a pollution incident,	ging the
			(h) the contact details of each authority referred to in section a Act,	
			<ul> <li>details of the mechanisms for early warnings and regular upda owners and occupiers of premis vicinity of the premises to v licence relates or where the activity is carried on,</li> </ul>	tes to the ses in the which the
			<ul> <li>the arrangements for minimisin of harm to any persons who a premises or who are present v scheduled activity is being carrie</li> </ul>	re on the where the
			(k) a detailed map (or set of maps) the location of the premises to licence relates, the surrounding is likely to be affected by a incident, the location of pollutants on the premises location of any stormwater drai premises,	which the area that pollution potential and the
			(I) a detailed description of I identified risk of harm to hum will be reduced, including (as a r by means of early warnings, up the action to be taken d immediately after a pollution in reduce that risk,	an health minimum) dates and uring or
			(m) the nature and objectives of training program in relation to the	
			(n) the dates on which the plan tested and the name of the pe	

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 21 of 39

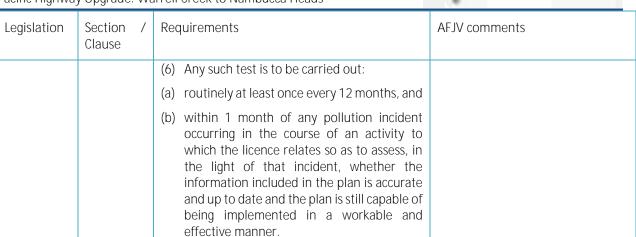




Legislation	Section / Clause	Requirements	AFJV comments
		carried out the test,	
		(o) the dates on which the plan is updated,	
		(p) the manner in which the plan is to be tested and maintained.	
		(2) Trackable waste transporters	
		This section is not applicable to AFJV works.	
POEO(G)	98D	(1) A plan is to be made readily available:	Section 6.3
Regulation		(a) to an authorised officer on request, and	
		(b) at the premises to which the relevant licence relates, or where the relevant activity takes place, to any person who is responsible for implementing the plan.	
		(2) A plan is also to be made publicly available in the following manner within 14 days after it is prepared:	
		(a) in a prominent position on a publicly accessible website of the person who is required to prepare the plan,	
		(b) if the person does not have such a website—by providing a copy of the plan, without charge, to any person who makes a written request for a copy.	
		(3) Subclause (2) applies only in relation to that part of a plan that includes the information required under:	
		(a) section 153C (a) of the Act, and	
		(b) clause 98C (1) (h) and (i) or (2) (b) and (c) (as the case requires).	
		(4) Any personal information within the meaning of the Privacy and Personal Information Protection Act 1998 is not required to be included in a plan that is made available to any person other than a person referred to in subclause (1).	
POEO(G)	98E	98E Testing of plan	Section 7.1
Regulation		(5) The testing of a plan is to be carried out in such a manner as to ensure that the information included in the plan is accurate and up to date and the plan is capable of being implemented in a workable and effective manner.	

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 22 of 39





Pacifico

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 23 of 39



# Appendix 2: Risk matrix criteria (consequence and likelihood)

Risk Quantification (Likelihood X Severity)		Minor This is a Reportable Incident* No breach of legislation Low impact – can be easily rectified without residual impact to the environment or heritage values. Requires only minor changes to improve procedural controls	Moderate This is a Category 2 Incident* Could cause potential breach of legislation Impact to environment or heritage values requiring further investigation and or standard environmental controls to rectify No residual impact to environment or heritage value	High This is a Category 1 Incident* Breach of legislation Requires major investigation and engineering controls to rectify Impact to environment or heritage values with irreparable damage or long term restoration (>1 year)		
		SEVERITY				
Unlikely (Has occurred once on a similar project in past 5 years)  Likely (Has occurred more than once on a similar project in past 5 years)  Almost Certain (Has occurred in all similar projects in the past 5 years)		1	2	3		
		L(1)	L(2)	M(3)		
		L(2)	M(4)	H(6)		
		M(3)	H(6)	H(9)		

Low Residual Risk	Medium Residual Risk	High Residual Risk
Risk is <b>TOLERABLE</b> . No further preventative action required, consider cost effective solutions or improvements that impose no additional cost.	Work may only start if the risk has been reduced to As Low as Reasonably Practicable (ALARP). Consider additional control measures that reduce the risk without significantly increasing cost**.	Risk is INTOLERABLE. Do not start work or continue until risk level is reduced using suitable control measures to a reasonably practicable level**.

<sup>\*</sup> Incident – Refer to RMS Environmental Incident Classification and Reporting Procedure (CEMP Appendix A7)

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 24 of 39

<sup>\*\*</sup> Control measures are to ensure that residual risks are reduced to as low as reasonably practicable. Where controls fail to reduce to a TOLERABLE or ALARP level the assessment must be referred to the AFJV Project Manager.



# Appendix 3: Results of preliminary risk assessment

Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
Site Establishment	<ul> <li>Amenities</li> <li>Site buildings</li> <li>Services</li> <li>Compound access</li> <li>Paving</li> </ul>	<ul><li>Mobile plant</li><li>Excavators</li><li>Moxies</li><li>Rollers</li><li>Light vehicles</li><li>Minitanker</li></ul>	Minor Fuel Spill (re-fuelling)	<ul> <li>Re-fuelling procedure</li> <li>Spill kits</li> <li>EWMS for Site Compound establishment</li> </ul>	2	2	Medium (4)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Fire fighting equipment</li> </ul>
	<ul> <li>Fencing</li> <li>Survey</li> <li>Fuel storage</li> <li>Drainage / erosion and sediment control installation</li> </ul>		Major Fuel Spill (catastrophic Failure of bulk fuel storage)	<ul> <li>Double skinned tanks</li> <li>EWMS for Site Compound establishment</li> </ul>	1	3	Medium (3)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Sucker trucks</li> <li>Fire fighting equipment</li> </ul>
			Sediment release	<ul> <li>ERSED Plan</li> <li>Sedimentation Basin         Management and         Discharge Procedure         (SWMP Appendix H)</li> <li>Pacific Highway Practice         Note for Dewatering         (SWMP Appendix G)</li> <li>EWMS for Site Compound         establishment</li> </ul>	2	2	Medium (4)	<ul> <li>Flocculants</li> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 25 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
			Acid sulfate soil release	<ul> <li>Acid Sulfate Materials         Management Procedure         (SWMP Appendix C)</li> <li>EWMS for Site Compound         Establishment</li> </ul>	1	2	Low (2)	Neutralising agent (lime)
			Contaminated soil release	<ul> <li>Unexpected Discovery of Contaminated land procedure (SWMP Appendix F)</li> <li>EWMS for Site Compound Establishment</li> </ul>	1	3	Medium (3)	<ul> <li>Flocculants</li> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>
			Minor     Chemical Spill	<ul> <li>Bunding of chemicals and fuels</li> <li>Pre-start equipment checks maintenance</li> <li>EWMS for Site Compound establishment</li> </ul>	2	2	Medium (4)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Fire fighting equipment</li> </ul>
Clearing and grubbing	<ul><li>Excavation</li><li>Ripping</li><li>Material Haulage</li><li>Mulching</li></ul>	<ul><li>Tree loppers</li><li>Excavators</li><li>Mulchers</li><li>Mobile fuel tank</li></ul>	• Tannin release	<ul> <li>Environmental Direction         <ul> <li>Management of Tannin from Vegetation Mulch (SWMP Appendix D)</li> </ul> </li> <li>EWMS for Clearing and Grubbing</li> </ul>	2	2	Medium (4)	<ul> <li>Sandbags, geofabric, sediment fence etc</li> <li>Pumps and hoses</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 26 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
			Sediment release	<ul> <li>ERSED Plan</li> <li>Sedimentation Basin         Management and         Discharge Procedure         (SWMP Appendix H)</li> <li>Pacific Highway Practice         Note for Dewatering         (SWMP Appendix G)</li> <li>EWMS for Clearing and         Grubbing</li> </ul>	2	2	Medium (4)	<ul> <li>Sandbags,         geofabric, mulch,         sediment fence         etc         <ul> <li>Pumps and             hoses</li> </ul> </li> </ul>
			Pollution from unidentified waste and/or drums	<ul> <li>Unexpected Discovery of Contaminated land procedure (SWMP Appendix F)</li> <li>EWMS for Clearing and Grubbing</li> </ul>	1	2	Low (2)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Fire fighting equipment</li> </ul>
Bulk earthworks	<ul> <li>Haul Road     Construction</li> <li>Batter     excavation</li> <li>Cut / fill     activities</li> </ul>	<ul> <li>Haulage trucks</li> <li>Excavators</li> <li>Explosives</li> <li>Rippers</li> <li>Graders</li> <li>Rollers</li> </ul>	Sediment release	<ul> <li>ERSED Plan</li> <li>Sedimentation Basin         Management and         Discharge Procedure         (SWMP Appendix H)     </li> </ul>	2	2	Medium (4)	<ul> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>
	<ul><li>Blasting</li><li>Stockpiling</li><li>Material Haulage</li></ul>	Rock     breakers	Acid sulfate     material     release	Acid Sulfate Materials     Management Procedure     (SWMP Appendix C)	1	3	Medium	Neutralising agent (lime)

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 27 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
			Acidic Rock, Low pH water release	<ul> <li>Blasting Plan</li> <li>ERSED Plan for containment of low pH water</li> <li>Additional bunding of Acidic rock material and liming of bunded area</li> </ul>			(3)	
			Excessive dust emissions	<ul><li>Air Quality Management Plan</li><li>Water cart use</li></ul>	2	2	Medium (4)	Chemical suppressants
			Contaminated soil runoff/release	<ul> <li>Erosion and sediment controls</li> <li>Soil and Water Management Plan</li> </ul>	1	2	Low (2)	<ul> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>
Creek / river crossings Construction	<ul> <li>Piling in waterway</li> <li>Batter preparation</li> <li>Concreting works</li> <li>Grouting operations</li> </ul>	<ul> <li>Piling rig</li> <li>Cranes</li> <li>Concrete pump</li> <li>Grout pump</li> <li>Slurry machine</li> <li>Bentonite injection equipment</li> </ul>	• Fuel /Chemical spill	<ul> <li>Bunding of chemicals and fuels</li> <li>EWMS for Temporary         Jetties and working         platforms</li> <li>EWMS for temporary         waterway crossings,         barge operations</li> <li>PIRMP detailing location         of hazardous storage         containers</li> </ul>	2	3	High (6)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Sucker trucks</li> <li>Fire fighting equipment</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 28 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
				<ul><li>EWMS for Piling Operations</li><li>EWMS for Bridge Superstructures</li></ul>				
			Acid sulfate material release	<ul> <li>EWMS for Temporary         Jetties and working         platforms</li> <li>EWMS for temporary         waterway crossings</li> <li>EWMS for Piling         operations</li> <li>EWMS for Bridge         Superstructures</li> </ul>	2	3	High (6)	Neutralising     agent (lime)
			Sediment release	<ul> <li>ERSED Plan</li> <li>Sedimentation Basin Management and Discharge Procedure (SWMP Appendix H)</li> <li>EWMS for Temporary Jetties and working platforms</li> <li>EWMS for temporary waterway crossings</li> <li>EWMS for Piling operations</li> <li>EWMS for Bridge Superstructures</li> </ul>	2	2	Medium (4)	<ul> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 29 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
			Contaminated soil runoff/release	<ul> <li>ERSED Plan</li> <li>EWMS for Temporary         Jetties and working         platforms</li> <li>EWMS for temporary         waterway crossings</li> <li>EWMS for Piling         operations         EWMS for Bridge         Superstructures</li> </ul>	2	2	Medium (3)	<ul> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>
			High pH water release	<ul> <li>ERSED Plan</li> <li>EWMS for Temporary Jetties and working platforms</li> <li>EWMS for temporary waterway crossings</li> <li>EWMS for Piling operations EWMS for Bridge Superstructures</li> </ul>	2	2	Medium (4)	<ul> <li>Neutralising         agent</li> <li>Containment         systems for run-         off</li> </ul>
Concrete Batching plant Operation	<ul> <li>Lime cement storage</li> <li>Water management</li> <li>Concrete Production</li> </ul>	<ul><li>Batching plant</li><li>Concrete trucks</li><li>Crushing and screening</li></ul>	• High pH water release	EWMS for Batch Plant establishment and operation	2	2	Medium (4)	<ul> <li>Neutralising         agent</li> <li>Installation of         first flush pit and         additional water         storage facility</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 30 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
		equipment • Wastewater / washout containment	Chemical release	EWMS for Batch Plant establishment and operation	2	2	Medium (4)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Sucker trucks</li> <li>Fire fighting equipment</li> <li>Appropriate bunding of storage areas</li> </ul>
			Release of cement dust	<ul> <li>Air Quality Management Plan</li> <li>EWMS for Batch Plant establishment and operation</li> </ul>	2	2	Medium (4)	<ul><li>Water trucks</li><li>Filter systems on silo's</li></ul>
Asphalt Batch Plant Operation and Asphalt paving on site	<ul> <li>Chemical storage</li> <li>Bitumen heating and storage</li> <li>Water Management</li> <li>Lime storage</li> <li>Aggregate storage</li> <li>Diesel storage</li> </ul>	<ul> <li>Asphalt batching plant</li> <li>Front end loaders</li> <li>Trucks</li> </ul>	Potential     release of     chemicals     including     hydrocarbons     to land/waters	<ul> <li>EWMS for Asphalt Plant</li> <li>EWMS for Asphalting</li> <li>Bunding of chemicals stored on site</li> <li>Appropriate spill containment measures available</li> </ul>	2	1	Low (2)	<ul> <li>Triple interceptor to be installed as " first flush"</li> <li>Bitumen tank has additional controls and is temperature regulated</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 31 of 39



Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
			Odour Release	Air Quality and Odour     Assessment	1	2	Low (2)	• Nil
			Sediment laden run-off	ERSED Plan     Sediment basin in place	1	2	Low (2)	<ul> <li>Hardstand to be used to cover surface under Plant</li> <li>Use of sediment basin in accordance with the EPL requirements</li> </ul>
			Dust emissions	Water Sprays	2	1	Low (2)	<ul><li>Additional monitoring</li><li>Chemical suppressants</li></ul>
Pavement construction	Concrete pours	Concrete trucks	<ul> <li>Release of high pH water</li> <li>Uncontrolled release of concrete or washout to soil or water.</li> </ul>	EWMS Concrete Paving	2	3	High (6)	Neutralising     agent

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 32 of 39

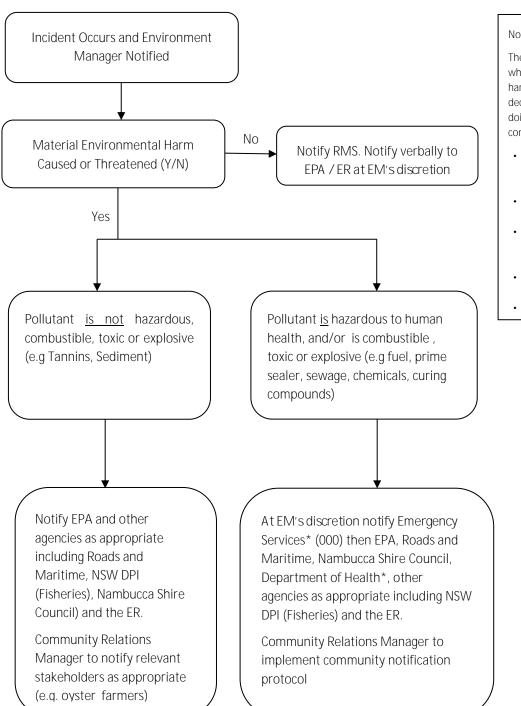


Construction phase	Sub-activities	Plant involved	Pollution Incident description	BAU Controls (Pre-Emptive Measures)	Likelihood	Severity	Risk	Additional contingency measures
Pavement Finishing	Application of bitumen prime seal or other curing compound	Spray Sealer     Bitumen/che     mical trucks	Uncontrolled release of bitumen prime seal or other curing compound	<ul> <li>Spill containment booms and bunding</li> <li>ERSED Plan</li> <li>Bunded storage of chemicals</li> <li>EWMS Concrete paving</li> </ul>	2	3	High (6)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Sucker trucks</li> <li>Fire fighting equipment</li> </ul>
Road Finishes	<ul> <li>Linemarking</li> <li>Installation of road furniture and signage</li> <li>landscaping</li> </ul>	<ul> <li>linemarker</li> <li>small hand tools</li> <li>Mobile plant</li> </ul>	• Paint/fuel spill	<ul> <li>Spill containment booms and bunding</li> <li>Bunded storage of chemicals</li> </ul>	2	1	Low (2)	<ul> <li>Oil absorbent materials</li> <li>Hydrocarbon booms</li> <li>Pumps and hoses</li> <li>Sucker trucks</li> <li>Fire fighting equipment</li> </ul>
			Sediment release	<ul> <li>ERSED Plan</li> <li>Sedimentation Basin         Management and         Discharge Procedure         (SWMP Appendix H)</li> </ul>	2	1	Low (2)	<ul> <li>Sandbags, geofabric, mulch, sediment fence etc</li> <li>Pumps and hoses</li> </ul>

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 33 of 39



#### Appendix 4 - Pollution Incident Notification Flow Chart



Notes:

The Environment Manager will advise whether or not material environmental harm is caused or threatened and will decide if the PIRMP should be activated. In doing so, the following factors should be considered:

- Proximity to sensitive receivers (e.g residents, schools, fisheries, aquaculture
- Nature of receiving environment (disturbed vs/pristine)
- Potential for impacts to human health (through dermal contact, respiration, fire or explosion)
- Whether the is pollutant is likely to leave the project boundary
- · Cost of cleanup

\*All pollution incidents (causing or threatening environmental harm) are technically required to be reported to all authorities. However, it is not the best use of resources to report incidents with zero health or safety risk to Emergency Services and Health Authorities.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 34 of 39



#### Appendix 5: Pollution Notification Protocol

Pollution Notification to Community Stakeholders Protocol

Whether or not the local community stakeholders are notified of a pollution incident will depend on the incident type and severity, and the potential to impact on the community. Community stakeholder notification is required for events that will result in an unacceptable health risk to community stakeholders. This could be during an incident (e.g. immediate risk of harm to health) or following an incident (e.g. due to the presence of harmful contaminant in soil or potential impacts to fisheries) in this circumstance, stakeholders will be notified in a manner that is appropriate for the type and severity of the incident. The Community Relations Manager, in consultation with the Environment Manager and the Project Director shall determine if community notification is required, the mechanisms by which the notification is made and the extent of the notification.

The notification measures will be directed by the Community Relations Manager and may include one or more of the following:

- Publication of incident related notification on Project website
- Distribution of Letter Box Drops
- Individual briefings of affected residents

Mechanisms for early warnings and ongoing regular updates to the community may include

- Doorknock of residents, businesses and others (e.g schools) potentially impacted by the incident
- Phone contact/messages
- Media notification
- Use of technology such as Variable Message / Motorway signage and radio communications.

In extreme cases, where the emergency services are required to attend site and control the incident, community notification will be undertaken by the relevant emergency service. For instance, if the incident results in a fire off site, that threatens the safety of local residents, the local fire brigade will control external communications and will co-ordinate the necessary evacuations.

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 35 of 39

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



# Authority Notification Protocol

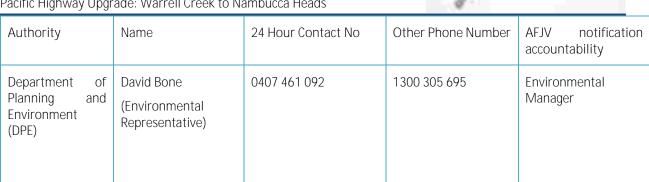
Notification to the Authorities must be undertaken in the order as listed in Table 1 Below.

Authority	Name	24 Hour Contact No	Other Phone Number	AFJV notification accountability		
Emergency	Fire and Rescue NSW	000	1300 729 579	Safety Manager		
Services	NSW Police	000				
	NSW Ambulance Service	000				
Only ring 000 if the incident presents an immediate threat to human health or to property and requires emergency services. If the incident does not require an initial combat agency, or once the 000 call has been made, notify as listed below.						
EPA	Environment Line	131 555	(02) 9995 5555	Environment Manager		
	Stan Viney	0429 215 388				
Ministry of Health	(North Coast Public Health Unit)	0428 882 805 (after hours, Environmental Health)	1300 066 055	Environment Manager		
WorkCover Authority	Information Line	13 10 50	N/A	Safety Manager		
Nambucca Shire Council	General SES Water Sewerage Roads, Bridges	(02) 6658 2555 6598 8022 0417 285 269 0417 287 397 0417 488 565	13 25 00	Environment Manager		
Department of Primary Industries	Fisheries Fisheries Watch	0419185378 (James Sakker) 1800 043 536	(02) 6650 3111	Environmental Manager		

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 36 of 39

#### POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



Pacifico

Other relevant stakeholders (non-authorities)

The AFJV Community Manager will contact the following stakeholders if they are potentially affected:

- Nambucca Oyster Company Pty Ltd (0434 402 761)
- Prime Water Oysters (0402435656)

The relevant information to be provided to the authorities in the event of a pollution incident consists of the following:

- The time, date, nature, duration and location of the incident
- The location of the place where the pollution is occurring or is likely to occur, the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known
- The circumstances in which the incident occurred (including the cause of incident, if known)
- The action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened (if known)

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 37 of 39

### POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



Appendix 6: Sensitive Area Plans – Location of Chemical Storage Facilities

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 38 of 39

### POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Pacific Highway Upgrade: Warrell Creek to Nambucca Heads



Appendix 7: Chemical Manifest

WC2NH-EN-CS-MPL-0001 PIRMP	REV: 3
Uncontrolled Copy When Printed	Page 39 of 39

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### Project: WC2NH Pacific Highway Upgrade

Last Up Date: žffžfł fk\$

		Current SDS	Hazard	Dangerou	Risk	SWMS	Amount Typically		Workplace Monitoring or		
SDS #No	Substance or Goods Name	supplied Yes/No	Substance Yes/No	s Goods Yes/No	Assessme nt Yes/No	Yes/No	Stored (Litres/kg etc)	Date of SDS	Health Surveillance Required Y/N	Contract using & Location	Supplier Details
v	, AIS): 3 VIVE] TENAX	Al W	Al W	AI W	AI W	AI W	Łfirkwi W	Ł' fŽfł fŁ!	6S		/ISQIXMOI
	; TSXQ EVONAK TENAX	Al W	Al W	Al W	Al W	AI W	Łfi <b>r</b> XW W	Ł! fŁfł fŁŽ	6S	; XL 4E] HS[ R EVI E"; XL +SQTSYRH	/ISQIXMOI
٠	=PXVETVSXIGXŽFI, WRVONIIR	Al W	6S	6S	AI W	6S	Ł PPXW	ŁŁf\$fł flŁ"	6S		/ISQIXMOI
"		Al W	Al W	Al W	Al W	AI W	Ł PPXM	"fl/fl flLl	6S		-: 5
	OEVTMA[LINNIERHWLMRIFPEGLKIP	Al W	Al W	Al W	AI W	AI W	ł PPXM/VV	ł f\$fł flŁŽ	6S		).2>
•											
/	, IXSP) RXIFEGY VIEPLERH [EVV	Al W	6S	RS	AI W	6S	ł PRXW VV	łł fl fł flŁž	6S		).2
fi	; MOEFSRH	Al W	Al W	Al W	AI W	AI W	ł XYFI W	žfŁł fł fŁž	6S		).2
Ł	, IXSPTS[IVERHTYVIQYPANTYVTSW/GPERWV	Al W	6S	6S	AI W	6S	ł PRXW VV	Łł fľ fł flŁł	6S		).2
·	8EPQSPPZIERXWTEGXIWDPJSEQNRKLERH[EWJ	Al W	6S	6S	Al W	6S	ł PRXW VV	ŁfI fI fIŁž	6S		).2-
	. ENJ EPANSISRI HNAVL[ EW. PRAYINH	Al W	6S	6S	Al W	6S	ł PRXM VV	Ł! fŁŁfł fŁŁ	6S	6S PSRKI VYWH	).2-
٠.	: ENAISRI WUSXNAWWGXONAPV	Al W	6S	Al W	Al W	Al W	ł PRXW VV	Łfľ fł fŁł	6S		).2-
~ *	=RPEHIH8IXASP	Al W	Al W	Al W	Al W	Al W	<*)	"fl fl flŁž	6S		+EPM ∖
٠,,	ł; XISO 7191	Al W	6S	6S	Al W	6S	<*)	Ł! f\$fł flŁŽ	6S	; XL4E]HS[R)VIE	; XIL/IP) YVXLEPHZI
	) KPROZI . I VXNSPMAVVVV	Al W	6S	6S	Al W	6S	<*)	ŁŁſĔſł ſĿŽ	6S		) KPROZII
~ ~	: ETNA; I X+SROV X	Al W	Al W	6S	Al W	6S	<*)	Łfi fi fiŁž	6S		+I Q I RX) YVMJEPPEI
٦/	41% 5 EVO V8E1%X	Al W	Al W	Al W	Al W	6S	<*)	%fl fl fl⊾Ž	6S		+SRVMWG/SV; EJI PRM 5 EVO V8ENMX
<sup>~</sup> fi	Žfl;lGSRHWWVVE] ~ [EPOE[E]+SRGMIXI4102LIR	Al W	Al W	Al W	Al W	6S	<*)	ŁŁfØfł flŁ"	6S		61 [ GSQFI ; EPP W
*Ł	O] HÆXI H 41021	Al W	Al W	6S	Al W	6S	<*)	ŁfI fI fIŁž	6S		+I Q I RX) YVXVEPPEI
	*YWZQER NAWYGX: I TI PPP RX	Al W	Al W	Al W	Al W	6S	<*)	Ł\$fŁflfł flŁŽ	6S		2/RS 4XH
. •	) CG RX; NAMZERI	Al W	6S	6S	AI W	6S	ł <yfi td="" w<=""><td>ł ŽfŁł fł flŁŽ</td><td>6S</td><td></td><td>) GG RX</td></yfi>	ł ŽfŁł fł flŁŽ	6S		) GG RX
	) YVXX*YN9HI WV9YN2DAVX+SRGAIXI	Al W	Al W	6S	AI W	6S	ŁfIfI3K	ŁfŁflfł flĿł	6S		) YVXVEPPER * YNPHI VVV
	; I TXSRI ) VQSYV+SPSKRI	Al W	6S	6S	AI W	6S	łfl410XM/W	ŁfŁfł fŁŽ	6S		; I TXSRI
. "	;ITXSRI +I <lw< td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>łfl410XM/W</td><td>ŁſŽſł ſĿŽ</td><td>6S</td><td></td><td>; I TXSRI</td></lw<>	Al W	6S	6S	Al W	6S	łfl410XM/W	ŁſŽſł ſĿŽ	6S		; I TXSRI
	Žfl; I GSRHW7 YXHSSV+PP ERI V+SRG RXXEXI	Al W	Al W	6S	AI W	6S	ł 4100M	ŁŁf%fł flŁ"	6S		žfl; I GSRHW
. •	5 I XL] PEXI H VVT MANV	Al W	Al W	Al W	AI W	6S	Ł4134M	ŁfŁŁfł fŁ!	6S		8I WNXE
./	<]TI 6 * PYI ; SPZI RX	Al W	AI WAI W	Al W	AI W	6S	ž41XM/W	"f\$fiflEt	6S		) XLIVASR +LIQNÆPAV
· fi	7 ^WEPTVO21 NRK JPYNH: 1 H	Al W	Al W	Al W	AI W	6S	ž41XM/W	"f\$fiflEt	6S		) XLIVASR +LIQNÆPAV
`Ł	*] RSVQ ž; XUSO - RKNR1 7 NP1	Al W	6S	6S	AI W	6S	ž 41XM	! fžfł fŁŽ	6S	; XL 4E] HS[ R) VI E	81 EO4YFWOERXW
•	?,ıžflFYPO41WY1M	Al W	Al W	Al W	AI W	6S	Ł PPXM	Ł\$fŁł fł flŁž	6S		?, ıžfl+SQTER]) YVXMEPNETI
	;.: ł!łł 5 YPANOTYNTSW/VIEW	Al W	Al W	6S	Al W	6S	ž 41XM	ł " fľ fł fŁž	6S		;.: +SVTSVEXISIR
* -	8\sxigsv; Spzirxfewh[e\tvitivexxxr	Al W	Al W	Al W	Al W	6S	ž 41XM	Łfi fi fiŁž	6S		+] RHER +LI Q NØERW
	, NAM/P>SVM \ 8VI Q IMQ	Al W	Al W	6S	Al W	6S	<*)	Ł' fł fł flŁŽ	6S	; XL 4E] HS[ R) VI E	+EP1 \
0 //	, I SHSVVVVVIZRIXVIVV: EIRJUSVI VXX	Al W	6S	6S	Al W	6S	Łfl41XM/W	ŁfŁflfł flŁž	6S		6SWLJSPD
٠	. SSH; YVJEG ; ERIXMIN/V	Al W	Al W	6S	Al W	6S	Łfl41XWWW	ŁfŁflfł flŁž	6S		6SWLJSPD
• •	) PTNRI VVVVE] ~ ? NVI	Al W	6S	6S	Al W	6S	! 41XW W	ŁžfI fI fIŁŽ	6S		) FTNRI
٠/	) PTIMAI OER] OERH+PPERIV	Al W	Al W	6S	Al W	6S	ł 4104M/W	%fl fl fl⊾Ž	6S		) FTNAI
° fi	1RVMERXOERH + IP ERI V	Al W	Al W	Al W	Al W	6S	Ł4134M	ŽflfŁfł flŁ!	6S	; XL ~ 6XL +SQTSYRHÆ] HS[ R EVI E	+PPER8PYW+LIQM2EPW
°Ł	. NATVNL/ 8S[ I FEIPP <efw< td=""><td>Al W</td><td>Al W</td><td>6S</td><td>Al W</td><td>6S</td><td>! 3K</td><td>! fŁŁfł flŁł</td><td>6S</td><td></td><td>: I GODYAK*I RGODYAVV</td></efw<>	Al W	Al W	6S	Al W	6S	! 3K	! fŁŁfł flŁł	6S		: I GODYAK*I RGODYAVV
"	6N <b>M</b> M	Al W	6S	6S	Al W	6S	Ł41XM	ŁfI fI fIŁI	6S		+SPKEXI 8EP2SPM21 8X] 4XH

## *``\_* ″flŁŽ\$%fl#Žl ~ ž'ł `ıfl9Žl(`ž°#fifl#

### Project: WC2NH Pacific Highway Upgrade

Last Up Date:

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SDS #No	Substance or Goods Name	Current SDS supplied Yes/No	Hazard Substance Yes/No	Dangerou s Goods Yes/No	Risk Assessme nt Yes/No	SWMS Yes/No	Amount Typically Stored (Litres/kg etc)	Date of SDS	Workplace Monitoring or Health Surveillance Required Y/N	Contract using & Location	Supplier Details
<b>"</b> ~	; I TXSRI 6I YXVEP4I QSR	Al W	Al W	6S	Al W	6S	Łfl41XWW	žfŁŁfł fŁŽ	6S		; I TXSRI
<b>"</b> ·											
// °	+LIQXSSPW žž, IS\	Al W	6S	6S	Al W	6S	Ł4134M	ŁfI fI fIŁž	6S		+LI Q XSSPW
""	) PTNNI , IMMRUI GXERXIPUYNH	Al W	6S	6S	Al W	6S	! 41XM	Ł" fl fł flŁŽ	6S		) FTNRI
"	; TVII, MV[EW/IRK 4WYN4	Al W	6S	6S	Al W	6S	Ł 41XW	ŁfŁflfl flŁŁ	6S	HIMZSRXIRIYI HTVSHYGX	+SREX 8EP2 SPIZI
<i>"</i> •	. NRTVNL/ 8S[ I VFEPP+PEVMCD]	Al W	Al W	Al W	Al W	6S	ŁŁOK	Ł\$fŁfł flŁž	6S		: I GODYAK*I RGODYAL/V
"/	7 JIMOI [SVOM? LIMOI FSEVH+PPERIV	Al W	6S	6S	Al W	6S	! flfIQP	ł fifi fił fiŁŽ	6S		7.JM2I? SVOW
	+LIQ[EXGL7HSYVJMWLTIVJYQIH, ISHSVERX	Al W	Al W	Al W	Al W	6S	ŁfIOK	Ł" fl fł flŁŽ	6S		+LI Q[ EXGL
″Ł	8LSWVLEXI.VII-GS?EWL	Al W	6S	6S	Al W	6S	łfl410XM	Łfł fł flŁ!	6S		+LI QXI GL
د	: SYRHYT 8S[IVQE\[IIHONPPV	Al W	Al W	6S	Al W	6S	Ł41XM	Ł" fŁflfł flŁ!	6S		; GSXXVX) YVXX
	81 VAQ EVAL VOI VFIQAMI	Al W	6S	6S	Al W	6S	! 41XM/W	ŁfŽfł fŁł	6S		<vns 4xh<="" 8x)="" n="" td=""></vns>
	5   KETS\] 8Lı 8EVX)	Al W	6S	6S	Al W	6S	Łfl413¥M/W	ŁŽf\$fł flŁ!	6S		>NZEGNAJ - RK 8fi4
	5   KETS\] 8Lı 8EVX*	Al W	6S	6S	Al W	6S	Łfl41XM/W	ŁŽf\$fł flŁ!	6S		>NZEGNAJ - RK 8fi4
. "	*] RSVQ ž ; XUSO) - RKNR1 7 NP1	Al W	6S	6S	Al W	6S	ž410XM/W	! fžfł fŁŽ	6S		81 EO4YFVMZERXW8fi4
	*3; XERHEVH *EGXI VYQNAEP8N71 2SNRXMRX 4YFVYQERX	Al W	6S	6S	Al W	6S	<*)	Łfł fł flŁŽ	6S		<pre><lsqew ;="" pre="" srw8fi4<="" vs^ywv=""></lsqew></pre>
	41/UY NA 6ENRIVY VIKINREP	Al W	Al W	Al W	Al W	6S	ŽflflK	ł \$fl⁄afł flŁž	6S		; I 📅 ] W
./	. SWSG: I RHI VSGO* žfl	Al W	Al W	6S	Al W	6S	ł žfl 3KW	žfľ fł fŁŽ	6S		8EVGLIQ +SRVMVYGNSIR; YTTPIVVV
ͺfi	: 1? . P \NVEP8\S 8\VQ1 V*EW	Al W	Al W	6S	Al W	6S	"fl41%M/W	ŁflfŽfł flŁ!	6S		: 1? 410211MIH
٤Ł	: YKEWSP5 O	Al W	Al W	Al W	Al W	6S	<*)	ł %F%F} flŁž	6S		; MOE) YVXX8X] 4XH
~	; NOEHYVI ŽI ** "	Al W	Al W	Al W	Al W	6S	' 3KW	ŽŁfI fI fIŁž	6S		; NOE) YVM(8X)] 4XH
~ ~	; NOEHYVIŽI 16 +SQT)	Al W	Al W	Al W	Al W	6S	Ł! 3KW	ł %fl fł flŁł	6S		; MOE) YVXX8X] 4XH
٠.	; NOE <nm *-<="" td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>łfl PRXWIW</td><td>ł"flfłflŁž</td><td>6S</td><td></td><td>; NOE) YVM(8X)] 4XH</td></nm>	Al W	6S	6S	Al W	6S	łfl PRXWIW	ł"flfłflŁž	6S		; NOE) YVM(8X)] 4XH
~ *	-TMI^+VzEO:   TENW-TS\];   EPP V*Łł Ž″	Al W	Al W	Al W	Al W	6S	Ł/! 41XW W	ŁfŁfł fŁŽ	6S	8EGNMO26 i 6XL; XSVI W	1 8SP]QIWERH.PYNAW</td
٠ "	-TIMI^+VŽEO:   TEINW-TS\];   EIPV°ŁłŽ″OEVHIRIV	Al W	Al W	Al W	Al W	6S	! flflQP	ŁfŁfł fŁŽ	6S	8EGNMO26 i 6XL; XSVI W	1 8SP]QIWERH.PYNHW</td
	)>; "f1f15 8VsX1 GX1X1	Al W	6S	6S	Al W	6S	łfl PRXWIW	ŁŽfŁł fł flŁł	6S	6SWL BSRI	*SVM(01) YVMJEPP[18X] 4XH
~ ~	; NOE <nm *-<="" td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>ł fififi41XM/W</td><td>ł"fl fł flŁž</td><td>6S</td><td>8EGNMO26 i 6XL; XSVI W</td><td>; NOE) YVM(8X)] 4XH</td></nm>	Al W	6S	6S	Al W	6S	ł fififi41XM/W	ł"fl fł flŁž	6S	8EGNMO26 i 6XL; XSVI W	; NOE) YVM(8X)] 4XH
·/	<vvvp; td="" xmqi<=""><td>Al W</td><td>Al W</td><td>6S</td><td>Al W</td><td>6S</td><td>! 41XW W</td><td>Łfĕfł fŁ!</td><td>6S</td><td>8EGNMO26 i 6XL; XSVI W</td><td>=PMOZIEXI 1RHYVMAMEP</td></vvvp;>	Al W	Al W	6S	Al W	6S	! 41XW W	Łfĕfł fŁ!	6S	8EGNMO26 i 6XL; XSVI W	=PMOZIEXI 1RHYVMAMEP
řfi	. EVXHV] : SEHQEVONAK? EXIVFEVVH	Al W	6S	6S	Al W	6S	<*)	Ł! fŽfł fŁž	6S	8Vicevskaevhi) PP, Xexi 41741 Qevonrik	) TGS +SEXIFIKW
řŁ											
/											
/°	- VEVIRAK . PJ EWZ	Al W	Al W	6S	Al W	6S	<*)	Ł%fŁł fł flŁŽ	6S	*SVEP*EXCLTFERX	. Pjevil) yvskjepre18XJ 4XH
1.	; SYXLIVR? LIMI +IQIRX	Al W	Al W	6S	Al W	6S	<*)	ł flft/fił flŁł	6S	*SVEP*EXCLTFERX	*SVEP+I QI RX
/*	; MOE5 SRS <st 6.="" <="" td="" žłł=""><td>Al W</td><td>6S</td><td>Al W</td><td>Al W</td><td>6S</td><td>ŁfIFIOK</td><td>ł' fĕfł fŁž</td><td>6S</td><td>*SVEP*EXCLTFERX</td><td>; MOE) YVA(8X) 4XH</td></st>	Al W	6S	Al W	Al W	6S	ŁfIFIOK	ł' fĕfł fŁž	6S	*SVEP*EXCLTFERX	; MOE) YVA(8X) 4XH
/"	81 RETEXOL; XWGWVEPO*%fI	Al W	Al W	6S	Al W	6S	ŁfIFIOK	! fl' fl fl <u>L</u> l	6S		1<4; 1 ) ) YVMJERPE18X] 4XH</td
/.	; NOE 5 SRS <st \$1="" td="" ž6<=""><td>Al W</td><td>Al W</td><td>Al W</td><td>Al W</td><td>6S</td><td>łžfIOK</td><td>ł %fžfł flŁž</td><td>6S</td><td></td><td>; MOE) YVA(8X) 4XH</td></st>	Al W	Al W	Al W	Al W	6S	łžfIOK	ł %fžfł flŁž	6S		; MOE) YVA(8X) 4XH
/°	3SRVMYOX+SRVMYGYISIR) HLI VIIZI	Al W	Al W	Al W	Al W	6S	ž \ŁŁfK	Łł fi fi filŁł	6S		O* . YPP V+SQTER]
//	3SRWAWOX: SSJI <verwaygirx* namzbri<="" td="" vi];=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>ł∖ŁŁfK</td><td>ŁŁfŁł fł flŁł</td><td>6S</td><td></td><td>;]RIVK]+SRWWYGYNSTR~1RHYWWNETP</td></verwaygirx*>	Al W	6S	6S	Al W	6S	ł∖ŁŁfK	ŁŁfŁł fł flŁł	6S		;]RIVK]+SRWWYGYNSTR~1RHYWWNETP
/fi	: žfl? , . SVQYÆ	Al W	Al W	Al W	Al W	6S	<*)	ŁfI fI fIŁž	6S		+LIQXSSPW8X]4XH
/Ł	; NOEHYV! 1 SEVX)	Al W	Al W	Al W	Al W	6S	Ž" flQP	Ł' fl fł flŁž	6S		; MOE) YVA(8X) 4XH
fi	; NOEHYV! 1 SEVX*	Al W	Al W	Al W	Al W	6S	Ł%fQP	Ł' fl fł flŁž	6S		; NOE) YVX(8X) 4XH

# *``, ″* flŁŽ\$%fl#Žl ~ Ž'ł ~ ı fl9Žl ~ ž° #fifl#

### Project: WC2NH Pacific Highway Upgrade

Last Up Date:

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SDS #No	Substance or Goods Name	Current SDS supplied Yes/No	Hazard Substance Yes/No		Risk Assessme nt Yes/No	SWMS Yes/No	Amount Typically Stored (Litres/kg etc)	Date of SDS	Workplace Monitoring or Health Surveillance Required Y/N	Contract using & Location	Supplier Details
fi	*NAYXLIRI; SPZIRX8NAQIV	Al W	Al W	Al W	Al W	6S	<*)	Łf%fł flŁŽ	6S		/VEGI +SRVMWYGMS/IR8NSHYGMW
fi <sup>:</sup>	8SPS OEYPEKI , +	Al W	Al W	6S	Al W	6S	<*)	Łfžfł fŁŽ	6S	? EXI VŒVX7TW	8SPS +1XNVV)) YVXNEPPE18X] 4XH
fi°	Ł'žı% \$\$Ž< <b>NA</b> [EWJ	Al W	Al W	6S	Al W	6S	<*)	Łf\$fł fŁŽ	6S		, YPY\) YVXVEPHZI
fi″	8PYQFIWW5EXITWQINRKJPYNH	Al W	Al W	Al W	Al W	6S	ž PRXVIVV	ł Žf\$fł flŁż	6S	>E <b>VISI</b> YW	*SVM(01) YVM(8X)] 4<,
fi့	*SVMY018>+81711 +1Q1RXFPY1	Al W	Al W	Al W	Al W	6S	ž PPXM/W	Ł! fŁflfł flŁž	6S	>E <b>VISI</b> YW	*SVM(01) YVM(8X] 4<,
fi	O]HVSGLFSVVQI)GVH	Al W	Al W	Al W	Al W	6S	<*)	Łł fŁŁfł flŁ!	6S	8EGNNAS - RZINAS	: I CSGLI Q 1RG
fi∕	=PXVE/VV71+SRVXVYGXYSIR)HILIMMZ1	Al W	Al W	Al W	Al W	6S	žfl@ŁŁflK	ŁfŽfł fŁł	6S		O* . YPP V+SQTER]
fifi	Łž +4) łfl8EXGL 5 EWM V+SPH4E]	Al W	6S	6S	Al W	6S	<*)	%FŁFIFI FIŁ!	6S		2E]FVS+121171, EJIX, 8VSHYGWV
fiŁ	*SVEP-QYPMANDR; I EPERX	Al W	6S	6S	Al W	6S	łfl410XM	ł' fŁflfł flŁŽ	6S		*SVEP) VVTLEPX
Ł	5 SVM IN 319PE 8VSX GX; YVJEG ; TVE]	Al W	]	Al W	Al W	6S	<*)	ŁŁfŁł fł flŁ!	6S		: I GODXXX*I RGODVVV
Ł	: ENAISRI WUSXNAWVGXONAPV	Al W	6S	Al W	Al W	6S	<*)	Łf\$fł flŁŽ	6S		; + 25LRW3R"; SRW8 <a 4<,<="" td=""></a>
F.	; I TXSRI EPPTYVTSW/XLNBRI WV	Al W	]	Al W	Al W	6S	<*)	ŁfŁfł fŁŽ	6S		;ITXSRI) YVMALEPHETI
Ł*	, YPY\ 8VsJI WMØREP <sxep8vi t<="" td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>Łfl41XWWW</td><td>∤"f}f}fk"</td><td>6S</td><td></td><td>,YPY∖)YVMAE8<a< td=""></a<></td></sxep8vi>	Al W	6S	6S	Al W	6S	Łfl41XWWW	∤"f}f}fk"	6S		,YPY∖)YVMAE8 <a< td=""></a<>
Ł"	, YPY\? EXLIWWIVIPH@LfI/PSWV	Al W	6S	6S	Al W	6S	Łł PRXW W	Łł fŁŁfł fŁ!	6S		, YPY\) YVMJEPNEI
Ł,	8EVGLIQ) ZIVMAEU; IEPPV; XVIVTTIV	Al W	Al W	6S	Al W	6S	<*)	ł žfł fł flŁ!	6S		8EVGLI Q
Ł	. SWSG61X6TVXQI B1X7GXQL	Al W	Al W	Al W	Al W	6S	<*)	ŁfŁŁfł fŁł	6S		SEVELI Q
Ł/	*PYIOIIPV <wgo? ewl<="" td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>&lt;*)</td><td>Łfľ fł fľŁŽ</td><td>6S</td><td></td><td>; I TXSRI</td></wgo?>	Al W	6S	6S	Al W	6S	<*)	Łfľ fł fľŁŽ	6S		; I TXSRI
Łfi	, IXEGL = PXVE * NSN: IPP EVV/) KIRX	Al W	Al W	6S	Al W	6S	<*)	ŁŽfŁflfł flŁż	6S		Н
ŁŁ	, SPSQ IXM	Al W	Al W	6S	Al W	6S	<*)	Łf\$fł flŁ!	6S		5 YHKII, SPSQ NAI° 41/02/I8 <a 4xh<="" td=""></a>
Ÿ	- QYPMSR +VEGO; I EPERX	]IW	6S	6S	Al W	6S	<*)	ł' fŁflfł fŁŽ	6S		*SVEP
~ ~	+SPHQ IM	Al W	6S	6S	Al W	6S	<*)	ł' fŁflfł fŁŽ	6S		*SVEP
٠.	8NS *PSG; YRWOMIR!fl	Al W	6S	6S	Al W	6S	<*)	Ł' fi fi fiŁŽ	6S		8VS; EJI X] / I EV
~ .	8NS * PSG; YRWOM IR ŽfI	Al W	6S	6S	Al W	6S	<*)	Ł\$f1 f1 f1ŁŽ	6S		8VS; EJI X] / I EV
~ "	) JXI OONAL *YNAHI: I TENVIS SVAEV	Al W	Al W	6S	Al W	6S	<*)	ł žfžfł flŁ"	6S		IX#R√V
٠.	? EXIVVSIPYXISIR SJ8SXEWNIVIQ O]HVSKIR 8LXLEPEXI	Al W	6S	6S	Al W	6S	<*)	ŁfŁflfł flŁŽ	6S		) YVXVEPPZR; GN/RXVN103
~ ~	*YJJI VVSIPYXISIR TO \$/fI	Al W	6S	6S	Al W	6S	<*)	ŁŁf\$fł flŁł	6S		) NV15 IX; GN/RXNVNOI
~ /	: EQ FI PS[ KVSYRH8I XVSPEXYQ <eti< td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>&lt;*)</td><td>Ł" fl fl flŁ"</td><td></td><td></td><td>) 1? +</td></eti<>	Al W	6S	6S	Al W	6S	<*)	Ł" fl fl flŁ"			) 1? +
ˇ fi	<[SVMASOISNPI	Al W	Al W	Al W	Al W	6S	<*)	Ł! f\$fł flŁŽ	6S		5 EONÆ
* Ł	315 +): - / I RXP PSXISIR; OND + PP ERVIV	AI W	6S	6S	AI W	6S	, 1 +76<16=-	Łł fĕfł fŁŁ	6S	) PP+VNFWERH <snpn ";="" 6xl="" td="" xl<="" xv=""><td>3M2FI VP +PEVO</td></snpn>	3M2FI VP +PEVO
~ ~	: ENH+SQQIVONEPRWGNONHI: INNHYEP, YVJEG	Al W	6S	Al W	Al W	6S	<*)	ł žf\$fł flŁ!	6S	; XL +SQTSYRH	, N21 VM/]
	) VQSV) PP5 YPAMTYVTSW/ CPP ERI V	Al W	6S	6S	Al W	6S	<*)	Łf\$fł fŁŽ	6S	; XL4E] HS[ REVIE	) VQSVI H) YXS/ VSYT
٠٠.	) NE\ ; TVE] 6? N7I	Al W	6S	6S	Al W	6S	<*)	Łfi fi fiŁi	6S	; XL+SQTSYRH * PE] HS[R) VIE	) NE/
~ ~ *	8VENMIN/SW/EXLQSWTLIV/VTVE]	Al W	6S	Al W	Al W	6S	<*)	ŁfŁfł flŁ!	6S	+PP ERI VVV	81 I VP VW2EP8X] 4XH
	*PEGL 4NAYN <del>A</del>	Al W	Al W	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	+PP ERI VVV	* VNALXSR 8VSJI VVNBIREP
	. PSSV+PPERIV[MAL)QQSRM2I	Al W	6S	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	+PP ERI WV	* VNALXSR 8VSJI VVNBIREP
	1RWAERXOERH; ERIMANIKAK/IP	Al W	Al W	Al W	Al W	6S	<*)	ŁfŁł fł flŁł	6S		* VNALXSR 8VSJI VMMSREP
~~/	<wgo? ewl<="" td=""><td>Al W</td><td>6S</td><td>6S</td><td>Al W</td><td>6S</td><td>&lt;*)</td><td>ŁfŁł fł flŁł</td><td>6S</td><td>; XL 4E] HS[ R ) VI E</td><td>* VNALXSR 8VSJI VVNAREP</td></wgo?>	Al W	6S	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	; XL 4E] HS[ R ) VI E	* VNALXSR 8VSJI VVNAREP
٠٠ fi	?NRHS[+PPERIV	Al W	6S	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	; XL +SQTSYRH*PE] HS[ R EVI E*GPPERI W	/* VNALXSR 8VSJI VVNBIREP
řĚ	, IMVL[EVIL/IRRK, IXIVKIRX	Al W	6S	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	+PP ERI VVV	* VNALXSR 8VSJI VVNBIREP
٠.	. PYNMIEP8WQIV	Al W	Al W	Al W	Al W	6S	<*)	"fŽfł fŁ!	6S		) 1? +

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### Project: WC2NH Pacific Highway Upgrade

Last Up Date:

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SDS #No	Substance or Goods Name	Current SDS supplied Yes/No	Hazard Substance Yes/No	Dangerou s Goods Yes/No	Risk Assessme nt Yes/No	SWMS Yes/No	Amount Typically Stored (Litres/kg etc)	Date of SDS	Workplace Monitoring or Health Surveillance Required Y/N	Contract using & Location	Supplier Details
٠.٠	. Pr NMI EPO,	Al W	6S	6S	Al W	6S	<*)	ł! fŁfł fŁ"			) 1? +
· · ·	+:; I: +EXISIRNOI-QYRNOSIR	Al W	Al W	6S	AI W	6S	<*)	ŁfI fI fIŁ"	6S	; SYXL GSQTSYRH	; EQMINAYQIR < I GLRSPSKNAW
~	)	Al W	Al W	Al W	AI W	6S	<*)	ł flfŽfł flŁ!	6S	TVICEVXXAEVHI; QIXVLFVVHKI	*7+
· · //	: EQWX+LI QWX%Lfl	Al W	AI W	Al W	AI W	6S	<*)	ł flfŽfł flŁ!	6S	*SVEP*EXGL 8PERX	: EQWX. EWN RIW
٠.	-8/VIEW	Al W	6S	Al W	AI W	6S	<*)	Ł' fŽfł fŁ!	6S	*SVEP*EXGL 8PERX	+EPA( \ ) YVXVEPPE1
~ . ~	O] HMEY PRO17 NP) ? "%	Al W	6S	6S	Al W	6S	<*)	ł žfžfł fŁł	6S	; SYXL 4E] HS[ R ) VI E**SVEP*EXGL 8PERX	+EPM(\) YVXWEPPEI
٠./	/ I EV7 NPI) - Łžfi	Al W	6S	Al W	Al W	6S	<*)	ł " fĕfł fŁł	6S	* SVEP* EXCL 8PERX	+EPM(\) YVXWEPPEI
ř fi	+: +!/!") \SV\$P	Al W	Al W	Al W	Al W	6S	<*)	" fl' fl flŁž	6S	*SVEP*EXGL 8PERX	+: + 1RHYVMMW
ř.F	; NOE > NOESGN XI 8+0:.11	Al W	6S	6S	Al W	6S	<*)	ł!f\$fłfŁž	6S	*SVEP*EXGL 8PERX	; NOE) YVM(8X) 4XH
~ *	; NOE : I XEVHEV6	Al W	6S	6S	Al W	6S	<*)	Ł' f\$fł fŁł	6S	*SVEP*EXGL_8FERX~8VI_CEVXKAEVH	; NOE) YVM(8X) 4XH
~ * ~	; NOE SPEVMOOI I RXI fl	Al W	6S	6S	Al W	6S	<*)	! fl⁄afł flŁŽ	6S	* SVEP* EXCL 8PERX	; NOE) YVM(8X) 4XH
· • ·	; NOE ) IM	Al W	6S	6S	Al W	6S	<*)	Ł' fl fł flŁŽ	6S	* SVEP* EXCL 8PERX	; NOE) YVM(8X) 4XH
~ * *	/IRIVEP8YVTSW/+IQIRX	Al W	Al W	Al W	Al W	6S	<*)	ł ŁfŁfł flŁ!	6S	* SVEP* EXCL 8PERX	*SVEP+SRVXVYGXVSRVV5EXIVNEPRV
~ * "	+SROM XI °[ I XQ IM]	Al W	Al W	6S	Al W	6S	<*)	ŁflfŁŁfł flŁž	6S	* SVEP* EXCL 8PERX	*SVEP+SRGM XI
٠.	; NOE / VSYXHEH FHEH 108	Al W	Al W	6S	AI W	6S	<*)	Łł fľ fł flŁŽ	6S	* SVEP* EXCL 8PERX	; NOE *6B" 4XH
	*EWIPP3PIR; EJI	Al W	Al W	Al W	Al W	6S	<*)	ŁŽfŁł fł flŁ"	6S	* SVEP* EXCL 8PERX	+LIQXEPP*) YVXWEPEVNE18X] 4XH*
~*/	K W+ VY+	Al W	6S	6S	Al W	6S	<*)	Łf\$fł flŁł	6S	8VI ŒVIXAEVH	; NOE
~ * fi	9Y100041011	Al W	6S	Al W	AI W	6S	<*)	ł ŁfŁfł flŁ!	6S	; 8)	*SVEP+I QERX
`*Ł	>NMEP* SRi 5 EXX8ž\$i>: Ł °1/, "	Al W	6S	6S	Al W	6S	<*)	ŁžfŁŁfł fŁŽ	6S	, YVXII VSVIXSIR GSRXVSPEKI RX	>NMEP+LIQNOEP8 <a4mh< td=""></a4mh<>
٠ "	8EWM YWM H / EVHI R 7 VKERNOWERH +SYWW 5 YPOL	Al W	6S	6S	Al W	6S	<*)	∤f!f}fl£"	6S	8EGV <b>IIO</b> S	8EGVIN26
٠,,٠	5 SVXINZIPYVI ROMPPGSGOVSEGLI FEDAVV				Al W		<*)	Ł%fŁł fł flŁ!			
٠ ,, .	. EVXLEGXISTR VEXVIZO[ E\ FISCOV/	Al W	6S	Al W	Al W	6S	<*)	Žf! fł flŁ"	6S	; SYXL 4E] HS[ R ) VI E	AEXI W
~ // *	) RXNF/EGXLVM2P; YVJEGL; TVE] +PPERLV	Al W	6S	6S	Al W	6S	<*)	ŁfI fI fIŁ!	6S	; SYXL 4E] HS[ R) VI E	*VNALXSR
~ " "	? SVOWST , I KVI EVVV	Al W	Al W	6S	Al W	6S	<*)	ŁfŁł fł flŁł	6S	; SYXL 4E] HS[ R ) VI E	*VNALXSR
٠ ,,	-QYPMSR*IMYQIR	Al W	6S	6S	Al W	6S	<*)	ł' fŁflfł fŁŽ	6S	; SYXL 4E] HS[ R ) VI E	*SVEP
٠,,٠	= PXVEGVIXI 1RVXVERX: SEH: I TEIVI	Al W	Al W	Al W	Al W	6S	<*)	ŁŁfŁł fł flŁł	6S	; SYXL 4E] HS[ R ) VI E	1RWEVQEG
~ "/	41XLXR1XXK. VI VVLOERH+PPERIV	Al W	Al W	6S	Al W	6S	<*)	Ł' fŁł fł fŁ"	6S	; SYXL 4E] HS[ R ) VI E	4NALXIBANBAK
~″fi	JEVM)GMS/R?IIH3MPP+SRGIRXWEXI	Al W	Al W	Al W	Al W	6S	<*)	Łfľ fł flŁž	6S	; SYXL 4E] HS[ R ) VI E	*Wrri <b>r</b> kw
~ ″Ł	) RXM/IVI I ^I ) RIXNFSNPP8VI QINMAI PPS[	Al W	Al W	6S	Al W	6S	<*)	ŽŁf\$fł flŁŽ	6S	; SYXL 4E] HS[ R ) VI E	81 RVIXII 7 NPH-SQTER]
	:IRSPM-81	Al W	6S	6S	Al W	6S	<*)	ł! fŁŁfł fŁ"	6S	6/+SQTSYRH	. YGLWAYFWOERXW
	+SRVXWGSV; EJI; IXII 5 EVOI V8ENXX	Al W	Al W	Al W	Al W	6S	<*)	!f%f∤flŁŽ	6S	6/+SQTSYRH	+SRVMWG/SV; EJI
٠.	/]T <b>W</b> Q . /	Al W	6S	6S	Al W	6S	<*)	∤f}f}fk	6S	<lvsyklsyxtvsnigx< td=""><td>; N71 P3S) YVXVEPP214XH</td></lvsyklsyxtvsnigx<>	; N71 P3S) YVXVEPP214XH
~ *	. SWSG: I RHI VSGO*\$fI	Al W	AI W	6S	Al W	6S	<*)	ł %f\$fł flŁ!	6S	8EGWINDS 6/+SQTSYRH	8EVGLI Q
٠ "	. SWSG: I RHI VSG. +	Al W	Al W	6S	Al W	6S	<*)	ł %f\$fł flŁ!	6S	8EGVMO26 6/+SQTSYRH	8EV(LIQ
, ,	. SWSG61MSFSRHO):	Al W	6S	6S	Al W	6S	<*)	ŁfI fI fIŁŽ	6S	8EGWINDS 6/+SQTSYRH	8EV(LIQ
	. SWSG61MSFSRH):	Al W	6S	6S	Al W	6S	<*)	Łfi fi fiŁ!	6S	8EGNINOS 6/+SQTSYRH	8EV3L1 Q
٠./	) HLI VNZI +LENSI 4YF VNZERX	Al W	Al W	Al W	Al W	6S	<*)	žfŁflfł flŁ!	6S	8EGNINOS 6/+SQTSYRH	+: + 1RHYVM/VV/=;)
ٽ ِ fi	+YXFECO*NXYQIR8W102IW);5+77*)5+7*)5+Ł	Al W	AI W	Al W	Al W	6S	<*)	Łf <b>Ž</b> fł flŁż	6S	8EGWINDS 6/+SQTSYRH	; EQM*INMYQIR <i clrsfskn="" mv<="" td=""></i>
ř,Ł	+YXFECO*NXYQ1R8N/021W))5+!*)5+"*)5+\$	Al W	AI W	Al W	Al W	6S	<*)	Łf <b>Ž</b> fł flŁż	6S	8EGWINDS 6/+SQTSYRH	;EQM*INMYQIR <iclrsfskn mv<="" td=""></iclrsfskn>
~ ~	) RXIVISPO:	Al W	AI W	Al W	Al W	6S	<*)	ł flfl fł flŁ"	6S	8EGWINDS 6/+SQTSYRH	; NOE

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### Project: WC2NH Pacific Highway Upgrade

Last Up Date: žfflžfl fl£\$

SDS #No	Substance or Goods Name	Current SDS supplied	Hazard Substance Yes/No	Dangerou s Goods Yes/No	Risk Assessme nt Yes/No	SWMS Yes/No	Amount Typically Stored	Date of SDS	Workplace Monitoring or Health Surveillance	Contract using & Location	Supplier Details
		Yes/No	165/110	165/110	III Tes/No		(Litres/kg etc)		Required Y/N		
	; Prvn[e] viprvneki rx	Al W	6S	6S	Al W	6S	<*)	Ł! fŁflfł flŁž	6S	; SYXL 4E] HS[R) VIE	>1/24/SVN121+L1 Q.1/2EP+S/8 <a4<,< td=""></a4<,<>
	* NXYO I R + PEWY) : ž! fl	Al W	6S	Al W	Al W	6S	<*)	ŁfŁł fł flŁł	6S	; SYXL 4E] HS[ R) VI E	; EQMINMYQIR <iglrspskn mw<="" td=""></iglrspskn>
~ ~ *	; PRVN[E] OLEZ], YX]	Al W	Al W	6S	Al W	6S	<*)	Ł! fŁflfł flŁž	6S	; SYXL 4E] HS[ R) VI E	>1/24/SV1/21+L1 Q.1/2EP+S/8 <a4<,< td=""></a4<,<>
· · //	+EXISIRNOI: ETNAI; IX-QYPNISIR	Al W	Al W	6S	Al W	6S	<*)	Łf%fł flŁ"	6S	<lvsyklsyxtvsnigx< td=""><td>; EQMINAYQIR &lt; I GLRSPSKNAW</td></lvsyklsyxtvsnigx<>	; EQMINAYQIR < I GLRSPSKNAW
	;)51EPX*)	Al W	6S	Al W	AI W	6S	<*)	Łfł fł flŁŽ	6S	<lvsyklsyxtvsnigx< td=""><td>; EQMINAYQIR &lt; I GLRSPSKN/MV</td></lvsyklsyxtvsnigx<>	; EQMINAYQIR < I GLRSPSKN/MV
~ ~ ~	4EFSVEXSV] - XLERSP, I REXYVI H "Q I XL] FEXI H W TVMXWV	Al W	Al W	Al W	Al W	6S	<*)	Łfľ fł fŁŽ	6S	; SYXL 4E] HS[ R) VI E	4EFXI GL WWZNOI WERHWITTPWW
~~/	O] H/EXI H 41/01	Al W	Al W	6S	Al W	6S	<*)	žfŁŁfł fŁž	6S	; SYXL 4E] HS[ R) VI E	; NF1 PSS ) YVXVEPPE14XH
~~fi	3PREVSP68*	Al W	Al W	6S	Al W	6S	<*)	ŁfŁfł flŁ!	6S	; SYXL 4E] HS[ R) VI E	; SPZI RXV)) YVXWEPPE18 <a 4<,<="" td=""></a>
٠٠Ł	-QI VWEP. SEHWEP	Al W	6S	6S	Al W	6S	<*)	Łžfi fi fiŁ!	6S	<lvsyklsyxv<b>IXVI</lvsyklsyxv<b>	8EVGLI Q
~/	; NOEHYVŽŁfřŁ 8EVX*	Al W	Al W	]IW	Al W	6S	<*)	ŽŁfI fI fIŁž	6S	<lvsyklsyxv<b>IXVI</lvsyklsyxv<b>	; NOEHYV
٠/٠	; NŒHYVŽŁfřŁ 8EVX)	Al W	Al W	Al W	Al W	6S	<*)	ŽŁfI fI fIŁž	6S	<lvsyklsyxv<b>IXVI</lvsyklsyxv<b>	; NOEHYV
٦.	@]TI\CSRCIRXVEXI~@]TI\8EXCL~68PYK	Al W	Al W	6S	Al W	6S	<*)	Łfł fł flŁž	6S	<lvsyklsyxv<b>IXVI</lvsyklsyxv<b>	@A8-@
٠/٠	@A8-@/)55) +=:-	Al W	6S	6S	Al W	6S	<*)	Łfł fł flŁž	6S	<lvsyklsyxv<b>IXVI</lvsyklsyxv<b>	@A8-@
٠/"	Ł\$'ı411741) GGIRX-\XIWSW4S[;LIIR) GV] PMOI	Al W	6S	6S	Al W	6S	<*)	"fŁfł fŁ!	6S	; SYXL W/GXISTR	, YPY\
	81 RI XUSR <stimep+v] 8vshygwv<="" td="" wierpri=""><td>Al W</td><td>6S</td><td>6S</td><td>AI W</td><td>6S</td><td>&lt;*)</td><td>ł ŽfŁflfł flŁ!</td><td>6S</td><td>; SYXL W/GXISTR</td><td>81 RI XVSR</td></stimep+v]>	Al W	6S	6S	AI W	6S	<*)	ł ŽfŁflfł flŁ!	6S	; SYXL W/GXISTR	81 RI XVSR
٠/٠	1RXI VGM XI ž%žfl8EVX)	Al W	Al W	6S	AI W	6S	<*)	Ł" fľ fł fŁž	6S	; SYXL W/G <b>XSI</b> R	1RXI VREXISIREP) O'S *SFI P8X] 4XH
٠//	TRXI VGM XI ž%žfl 8EVX*	Al W	Al W	6S	AI W	6S	<*)	Ł" fŽfł fŁ"	6S	; SYXL W/G <b>XSI</b> R	1RXI VREXISIREP) O'S *SFI P8X] 4XH
~/fi	. SWSG+SRGYVI @' fl	Al W	6S	6S	Al W	6S	<*)	Łfĕfł fŀŁł	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	8EVOLIQ +SRVXVVGXVSIR; YTTPVVV
~/Ł	. SWSG+SRGYVI ? Žfl	Al W	6S	6S	Al W	6S	<*)	ł Žf1 f1 f1Ł!	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	8EVGLIQ +SRVMVYGYSIR; YTTPMVV
~ fi	. SWSG+SRGYV * ' fl	Al W	6S	6S	Al W	6S	<*)	ŁŽfľ fł flŁ\$	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	8EVGLIQ +SRVMVYGYSIR; YTTPMVV
<sup>-</sup> fi	. SWSG+SRGYVI ) ''	Al W	6S	6S	Al W	6S	<*)	łłflfłflŁ!	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	8EVOLIQ +SRVXVVGXVSVR; YTTPVVV
τfi'	), I<-38YQT °) UYI SYWWSIPYXYSIR″	Al W	Al W	6S	Al W	6S	<*)	\$fl fl fl <u>L</u> l	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	) Hi<1 08X1 4XH
⁻ fi°	>NMEPFSQIQEXX: , ; °; \$1 "	Al W	6S	6S	Al W	6S	<*)	ŽfIf\$fI fIŁŽ	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	>NMEP+LIQNMEP8 <a4mh< td=""></a4mh<>
۰ fi″	>NMEPFSR i QEXXO:	Al W	6S	6S	Al W	6S	<*)	Łł f <b>Ž</b> fł fŁž	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	>NAEP+LIQ NAEP8 <a 4xh<="" td=""></a>
˜fi,	* EXXL V] ) GN/I	Al W	Al W	Al W	Al W	6S	<*)	ŽflfŁflfł flŁ!	6S	) IPPSPERXFIZI LINZAP WYLVSYKLSYXVINYI	>E <b>VIS</b> IYW
<sup>°</sup> fi	+NXMEI. SVG OLEZ] HYX] HIKVI EVVV	Al W	AI W	6S	Al W	6S	Ł! 4	ŽŁfŁł fł flŁ!	6S	+PP ERNAK TÆRX	4EFXI GL VIVVZIVQI WERH WYTTPWW
τ <b>ή</b>	?,ıžfl8RIYQEXMZIXSSPSN71	Al W	6S	6S	Al W	6S	Ł PPXM	ŽŁf\$fł fŁž	6S	<veri \<="" td=""><td>?,ıžfl+SQTER])YVMJEPNEI</td></veri>	?,ıžfl+SQTER])YVMJEPNEI
<sup>~</sup> fifi	6YPSR.YPP;]RXLIXKQ!?ŽfI, NVWPIRKNRISNPI	Al W		Al W	Al W	6S	<*)	%FI FI FILŽ	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	6YBR
řfiŁ	*NXYXLIRI PRUYNH15 IQFVERI 8EVX)	Al W	Al W	Al W	AI W	6S	∤flPNAM @"	ł! fŽfł fŁ!	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	/VEG +S
~Ł	* NAVYXLIRI PRUMYNA15 IQFVERI 8EVX*	Al W	Al W	Al W	Al W	6S	<*)	' fŽfł fŁ!	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	/VEG +S
~Ł~	>ERH \ - FEVMOZMI V83 \$!	Al W	6S	6S	Al W	6S	<*)	ŁfI fI fIŁŽ	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	8EVGLI Q
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žŁŁ	) XXECO) R 7 HSYV 1RHSSV	Al W	Al W	Al W	Al W	6S	Łfl41XWWW	ŁfŁflfł flŁ"	6S	<lvsyklsyxvixm< td=""><td>81 I VP W 12EP8XI 4XH</td></lvsyklsyxvixm<>	81 I VP W 12EP8XI 4XH
	/YQTXISIR 5 YPAVBYVTSW/+PPERIV	Al W	6S	6S	Al W	6S	<*)	ŁfŁŁfł flŁŽ	6S	<lvsyklsyxvixm< td=""><td>+PSVS\) YVXVEPPEI</td></lvsyklsyxvixm<>	+PSVS\) YVXVEPPEI

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### Project: WC2NH Pacific Highway Upgrade

Last Up Date: žfftzfł flt\$

SDS #No	Substance or Goods Name	Current SDS supplied Yes/No	Hazard Substance Yes/No			SWMS Yes/No	Amount Typically Stored (Litres/kg etc)	Date of SDS	Workplace Monitoring or Health Surveillance Required Y/N	Contract using & Location	Supplier Details
	6I [ ) KI *EWW+VI EQ	Al W	6S	6S	Al W	6S	<*)	ŁfŁflfl flŁ"	6S	<lvsyklsyxv<b>IXII</lvsyklsyxv<b>	4NALXRNAK 8VSHYGXVV
	41 QSRHMARUIGAERXOSWINAEP/VEHI	]IW	6S	6S	Al W	6S	Žfl 41XM	ŁfI fI fIŁ"	6S	<lvsyklsyxv<b>IXII</lvsyklsyxv<b>	* VMLXSR 8VSJI VMØIREP
	5 EGLNAI: NAAGI) NAI HNANZ[EWZIV	Al W	6S	6S	Al W	6S	Žfl 41XW	ŁfŁł fł flŁł	6S	<lvsyklsyxv<b>IXI</lvsyklsyxv<b>	* VNALXSR 8VSJI VNNSTREP
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. •	+SSPERX: EHIPDSV. PYIM	Al W	Al W	6S	Al W	6S	Ł4134M	ŁfŁł fł flŁł	6S	; SYXL 4E] HS[ R) VI E	9YM2D; QEVX
. /	+<1 fl? EVNR 6? E\	Al W	6S	6S	Al W	6S	Ł PRXVI	ŁfŁfł flŁŽ	6S	; SYXL 4E] HS[ R) VI E	1 ))5 <1 GL</td
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·Ł	* NXYQIR - QYPNNSNRW	Al W	6S	6S	Al W	6S	<*)	Łfľ fł flŁŽ	6S	<lvsyklsyxvixii< td=""><td>* NAYGLIQ * YNGHNGAK 8\SHYGXVAXH</td></lvsyklsyxvixii<>	* NAYGLIQ * YNGHNGAK 8\SHYGXVAXH
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LEGEND
Site boundary
Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Archaeological PAD/Site
Identified archaeological location
Non-Aboriginal heritage site
Microbat roost site/habitat
Microbat roost site/habitat - GeoLINK
Parsonia dorrigoensis
Moist Open Forest - Flooded Gum
Moist Open Forest - White Mahogany Grey Gum
Open Forest - Blackbutt
Mixed Floodplain Forest

0 60

Sensitive Area Plans





Clearing limit
Pacifico EPL Boundary
20yr ARI flood Archaeological PAD/Site !dentified archaeological location

Non-Aboriginal heritage site

Facade treatments to noise receivers

Sensitive noise receiver

Microbat roost site/habitat - GeoLINK

Parsonia dorrigoensis

Niemeyera whitei - GeoLINK (

R Habitat trees

LEGEND

Site boundary

Giant Barred frog habitat - Environmental
Management Plan
Giant Barred frog habitat - GeoLINK
Mixed Floodplain Forest (EEC)

Moist Open Forest - Flooded Gum

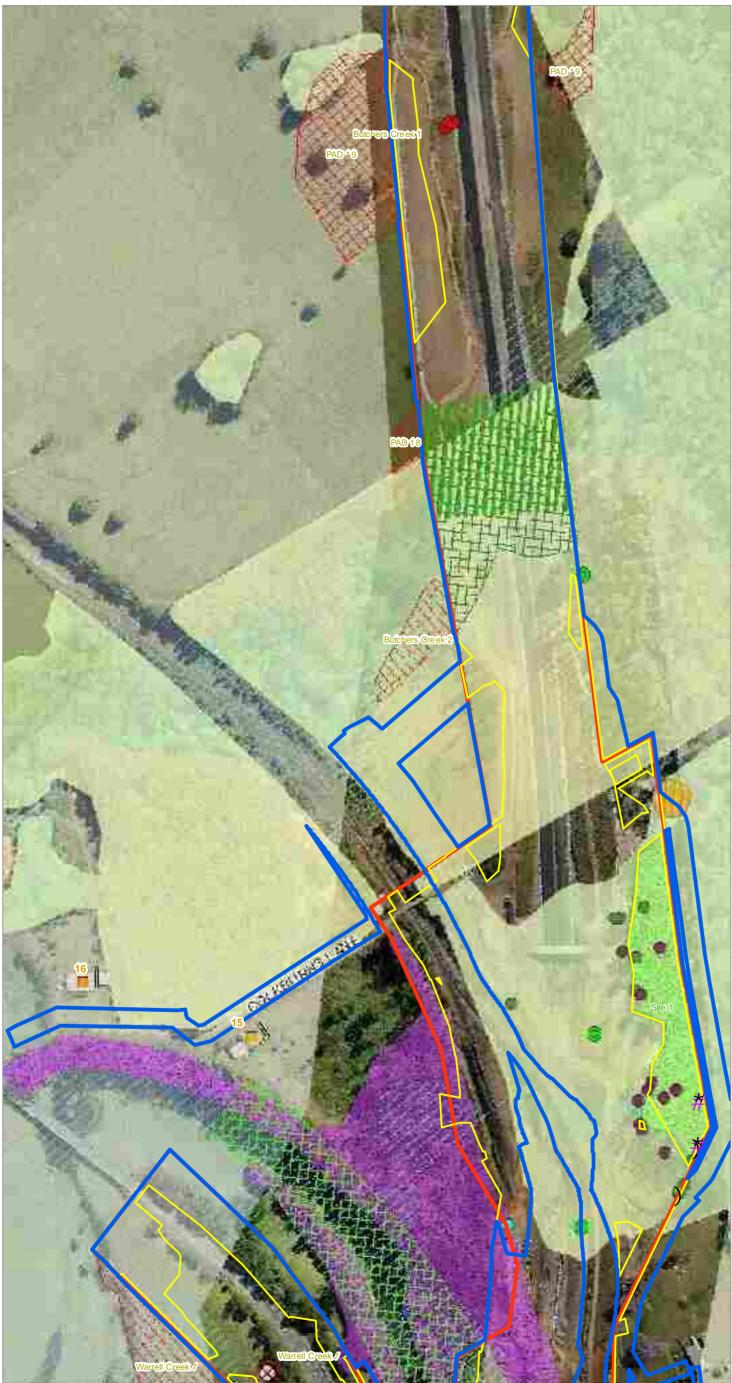
Mixed Floodplain Forest

Sensitive Area Plans

**WC2NH** 2378-1457 - Rev G - 14/08/2018 Map Sheet 2 of 27

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LEGEND Site boundary Clearing limit Pacifico EPL Boundary
20yr ARI flood Archaeological PAD/Site ? Identified archaeological location Potential contaminated site Facade treatments to noise receivers Sensitive noise receiver ( Marsdenia longiloba Niemeyera whitei ) # Habitat tree Rusty Plum Niemeyera whitei - GeoLINK R Habitat trees - GeoLINK Habitat trees Translocation receival site Giant Barred frog habitat - Environmental
Management Plan
Giant Barred frog habitat - GeoLINK
Likely Giant Barred frog habitat
Potential Giant Barred frog habitat
GeoLINK
Mind Floodskip Forcet (FFC)

Mixed Floodplain Forest (EEC) Moist Open Forest - Flooded Gum Hardwood Plantation - mostly cleared Mixed Floodplain Forest

Map Sheet 3 of 27



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Site boundary
Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Archaeological PAD/Site
Facade treatments to noise receivers
Sensitive noise receiver
R Habitat trees
Moist Open Forest - Flooded Gum
Open Forest - Blackbutt
Lowland Rainforest

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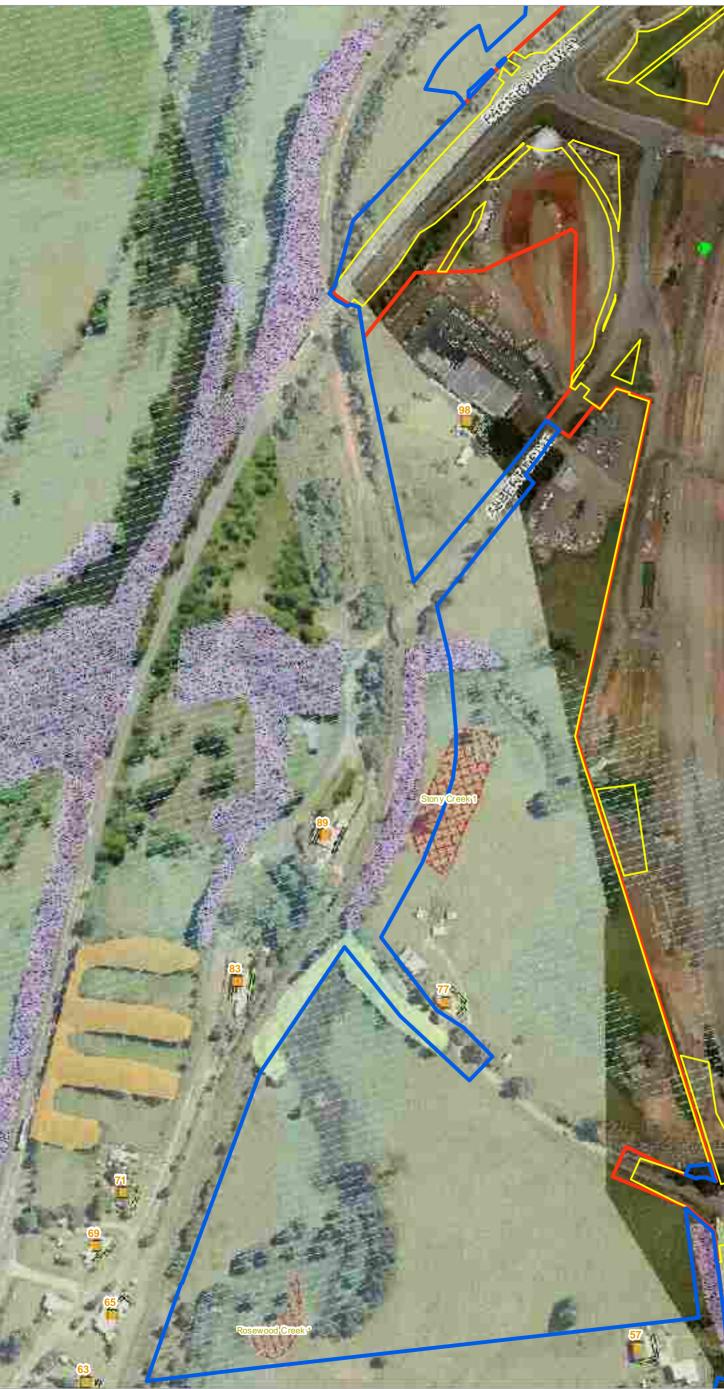


LEGEND

Site boundary
Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Archaeological PAD/Site
Facade treatments to noise receivers
Sensitive noise receiver
R Habitat trees
Moist Open Forest - Flooded Gum
Lowland Rainforest

Sensitive Area Plans

WC2NH 2378-1457 - Rev G - 14/08/2018 Map Sheet 5 of 27



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Site boundary

Clearing limit
Pacifico EPL Boundary
20yr ARI flood

Archaeological PAD/Site

Facade treatments to noise receivers Sensitive noise receiver

R Habitat trees

Moist Open Forest - Flooded Gum

Lowland Rainforest

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LEGEND
Site boundary
Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Archaeological PAD/Site
Facade treatments to noise receivers
Sensitive noise receiver
Microbat roost site/habitat
R Habitat trees
Open Forest - Blackbutt

Map Sheet 7 of 27

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LEGEND Site boundary Clearing limit
Pacifico EPL Boundary
20yr ARI flood ! Identified archaeological location Facade treatments to noise receivers Sensitive noise receiver Maundia triglochinoides Microbat roost site/habitat
R Hollow-bearing tree/Habitat tree
Location of Maundia Moist Open Forest - White Mahogany Grey Gum
Lowland Rainforest

Map Sheet 8 of 27

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LEGEND Site boundary Clearing limit
Pacifico EPL Boundary
20yr ARI flood Facade treatments to noise receivers Sensitive noise receiver ( Alexfloydia repensMicrobat roost site/habitat R Habitat tree GeoLINK 15/05/2015 Floyd's Grass habitat R Hollow-bearing tree/Habitat tree R Habitat trees Mixed Floodplain Forest (EEC)

Moist Open Forest - White Mahogany Grey Gum Regrowth Swamp Oak Mixed Floodplain Forest Swamp Forest - Swamp Oak

Map Sheet 9 of 27

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Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Potential contaminated site
Facade treatments to noise receivers
) Sensitive noise receiver
( Maundia triglochinoides
 Microbat roost site/habitat
R Habitat trees - GeoLINK
R Habitat trees
Swamp Forest - Swamp Mahogany/
Paperbark EEC
Swamp Oak Forest (EEC)
Moist Open Forest - White Mahogany Grey Gum
Mixed Floodplain Forest
Swamp Forest - Swamp Mahogany /
Paperbark





Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Potential contaminated site
Facade treatments to noise receivers
) Sensitive noise receiver
( Maundia triglochinoides
R Habitat trees
Swamp Forest - Swamp Mahogany/
Paperbark EEC
Swamp Oak Forest (EEC)
Moist Open Forest - White Mahogany Grey Gum
Mixed Floodplain Forest
Swamp Forest - Swamp Mahogany /
Paperbark

LEGEND

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LEGEND
Site boundary
Clearing limit
Pacifico EPL Boundary
20yr ARI flood
Archaeological PAD/Site
Facade treatments to noise receivers
Sensitive noise receiver
(Maundia triglochinoides
Flying Fox camp (Jan 2015)
Location of Maundia
Freshwater Wetlands (EEC)
Swamp Forest - Swamp Mahogany/
Paperbark EEC
Swamp Oak Forest (EEC)
Freshwater Wetlands
Swamp Forest - Swamp Mahogany /
Paperbark

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Clearing limit

Pacifico EPL Boundary

20yr ARI flood

Archaeological PAD/Site

Facade treatments to noise receivers

Sensitive noise receiver

Swamp Forest - Swamp Mahogany/
Paperbark EEC

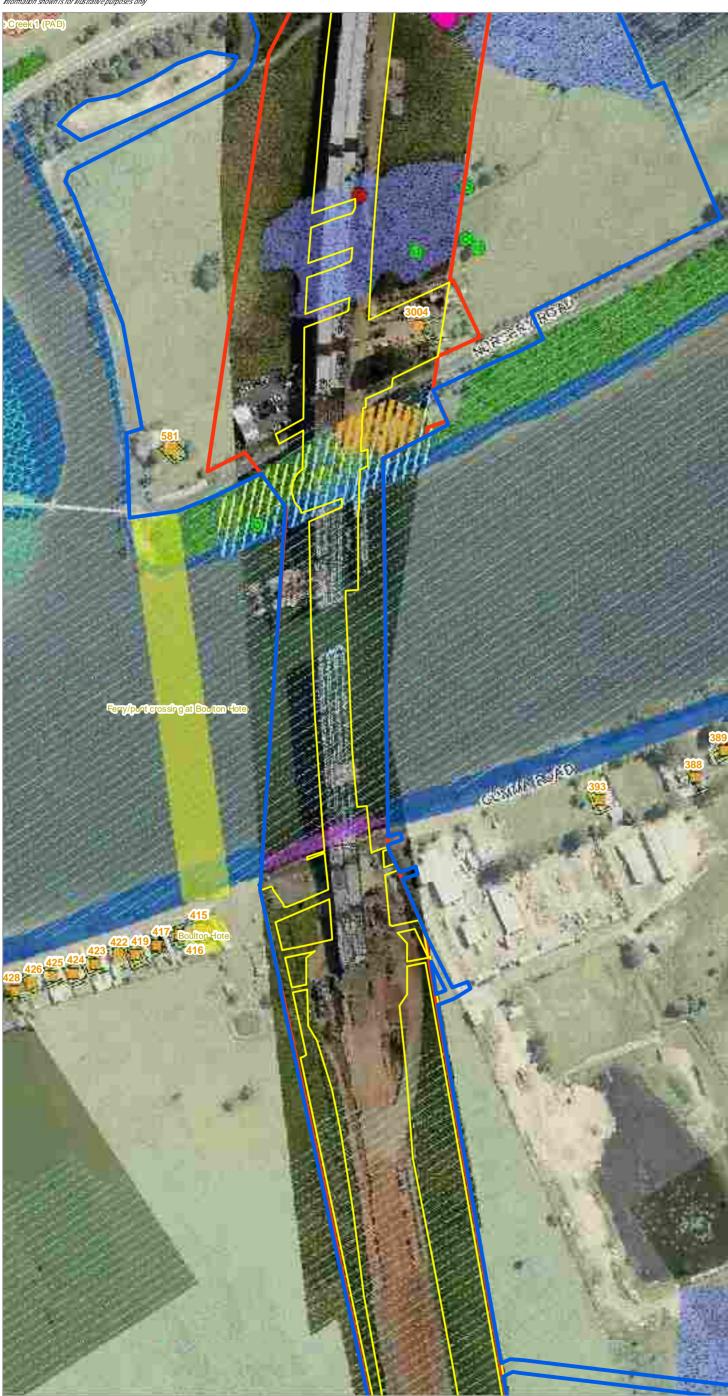
Open Forest - Blackbutt

Swamp Forest - Swamp Mahogany /
Paperbark





Site boundary Clearing limit
Pacifico EPL Boundary
20yr ARI flood SEPP14 wetland ( Maundia triglochinoides R Habitat trees Location of Maundia Freshwater Wetlands (EEC) Swamp Forest - Swamp Mahogany/ Paperbark EEC Freshwater Wetlands Swamp Forest - Swamp Mahogany / Paperbark





Archaeological PAD/Site Non-Aboriginal heritage site Potential contaminated site Facade treatments to noise receivers Sensitive noise receiver R Habitat trees - GeoLINK R Habitat trees Persicaria elatior Mangrove and pneumataphores **Salt marsh** Freshwater Wetlands (EEC) Mixed Floodplain Forest (EEC) Swamp Oak Forest (EEC) Mangrove Forest Freshwater Wetlands Swamp Forest - Swamp Oak

LEGEND

 Site boundary Clearing limit Pacifico EPL Boundary
20yr ARI flood

SEPP14 wetland

Sensitive Area Plans

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Site boundary Clearing limit Pacifico EPL Boundary Macksville Hospital - Early works EPL boundary 20yr ARI flood SEPP14 wetland Archaeological PAD/Site Facade treatments to noise receivers Sensitive noise receiver Microbat roost site/habitat R Hollow-bearing tree/Habitat tree R Habitat trees - GeoLINK R Habitat trees Persicaria elatior Freshwater Wetlands (EEC) Swamp Forest - Swamp Mahogany/ Paperbark EEC Swamp Oak Forest (EEC) Saltmarsh EEC Moist Open Forest - White Mahogany -Grey Gum Regrowth Swamp Oak Lowland Rainforest Swamp Forest - Swamp Oak

LEGEND

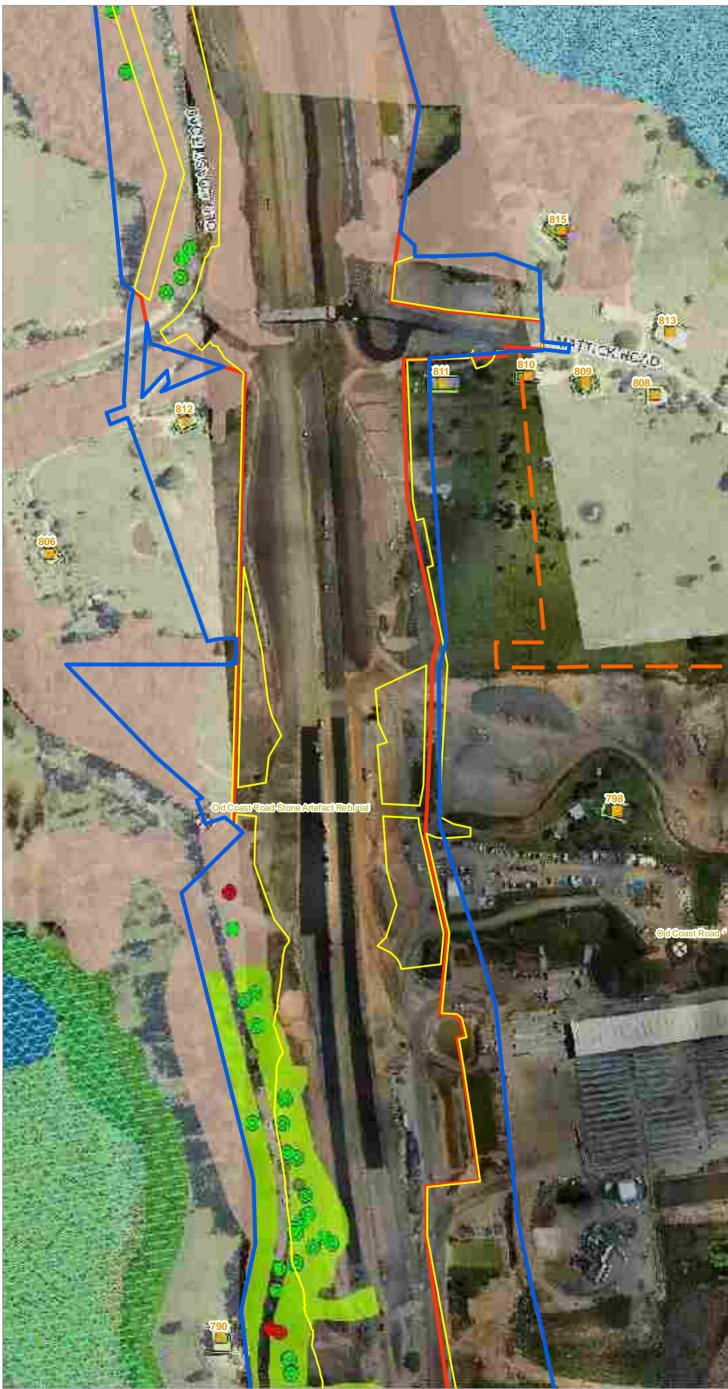
Saltmarsh





Clearing limit
Pacifico EPL Boundary
Macksville Hospital - Early works EPL boundary
Archaeological PAD/Site
Identified archaeological location
Facade treatments to noise receivers
Sensitive noise receiver
Swamp Forest - Swamp Mahogany/
Paperbark EEC
Swamp Forest - Swamp Mahogany /
Paperbark

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Site boundary Clearing limit Pacifico EPL Boundary

Macksville Hospital - Early works EPL
boundary 20yr ARI flood
SEPP14 wetland Archaeological PAD/Site
Pldentified archaeological location Facade treatments to noise receivers Sensitive noise receiver Marsdenia longiloba ( R Hollow-bearing tree/Habitat tree R Habitat trees - GeoLINK R Habitat trees Moist Open Forest - White Mahogany - Grey Gum Open Forest - Blackbutt Swamp Forest - Swamp Mahogany / Paperbark Swamp Forest - Swamp Oak Saltmarsh

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Site boundary Clearing limit Pacifico EPL Boundary 20yr ARI flood Facade treatments to noise receivers Sensitive noise receiver ( Translocated Marsdenia longilobaR Hollow-bearing tree/Habitat tree R Habitat trees - GeoLINK R Habitat trees Translocation receival site Swamp Forest - Swamp Mahogany/ Paperbark EEC Moist Open Forest - White Mahogany - Grey Gum Open Forest - Blackbutt Swamp Forest - Swamp Mahogany / Paperbark

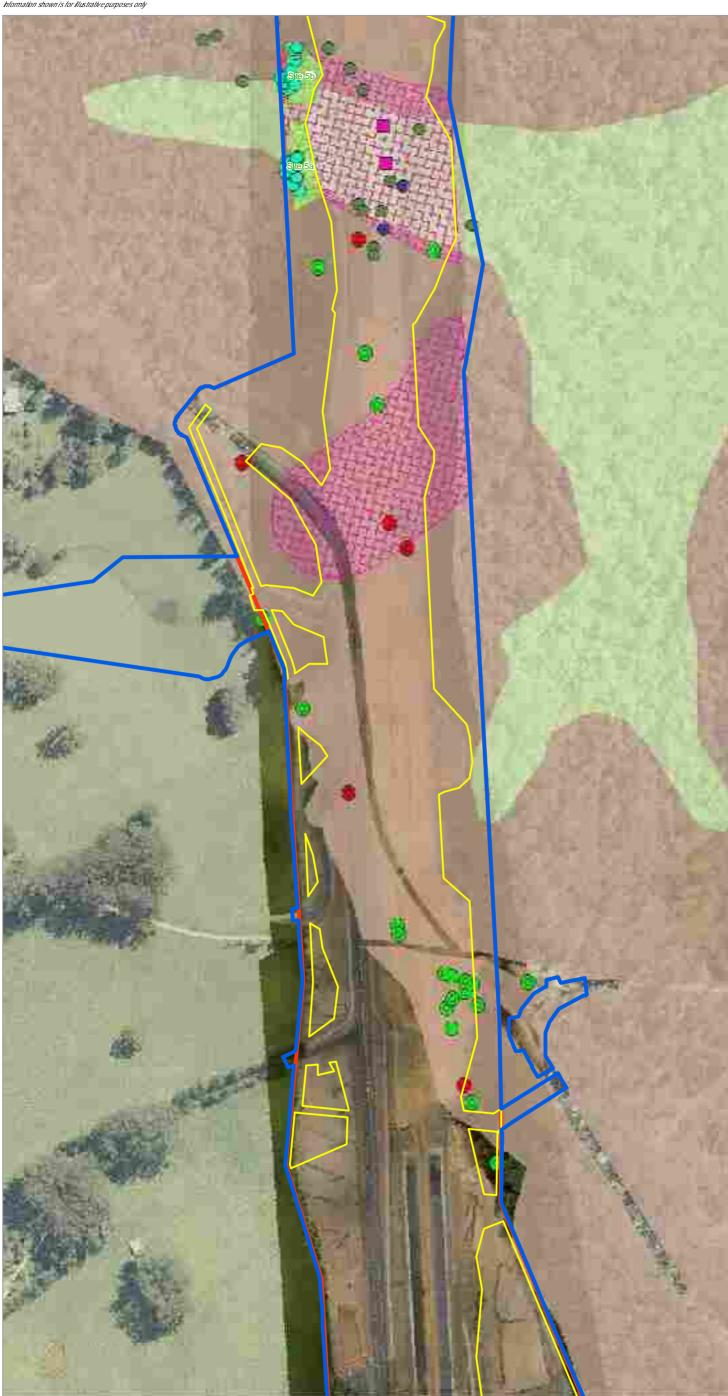
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Site boundary

Clearing limit

Pacifico EPL Boundary
Translocated Marsdenia longiloba

Additional Artanema fimbriatum

Goodenia fordiana

Marsdenia longiloba

Slender Marsdenia - GeoLINK

R Hollow-bearing tree/Habitat tree

R Habitat trees - GeoLINK

Habitat trees R

Translocation receival site
Potential Likely Green-thighed frog habitat GeoLINK

Moist Open Forest - Flooded Gum Open Forest - Blackbutt

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Sensitive Area Plans



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Pacifico EPL Boundary

Facade treatments to noise receivers

Sensitive noise receiver

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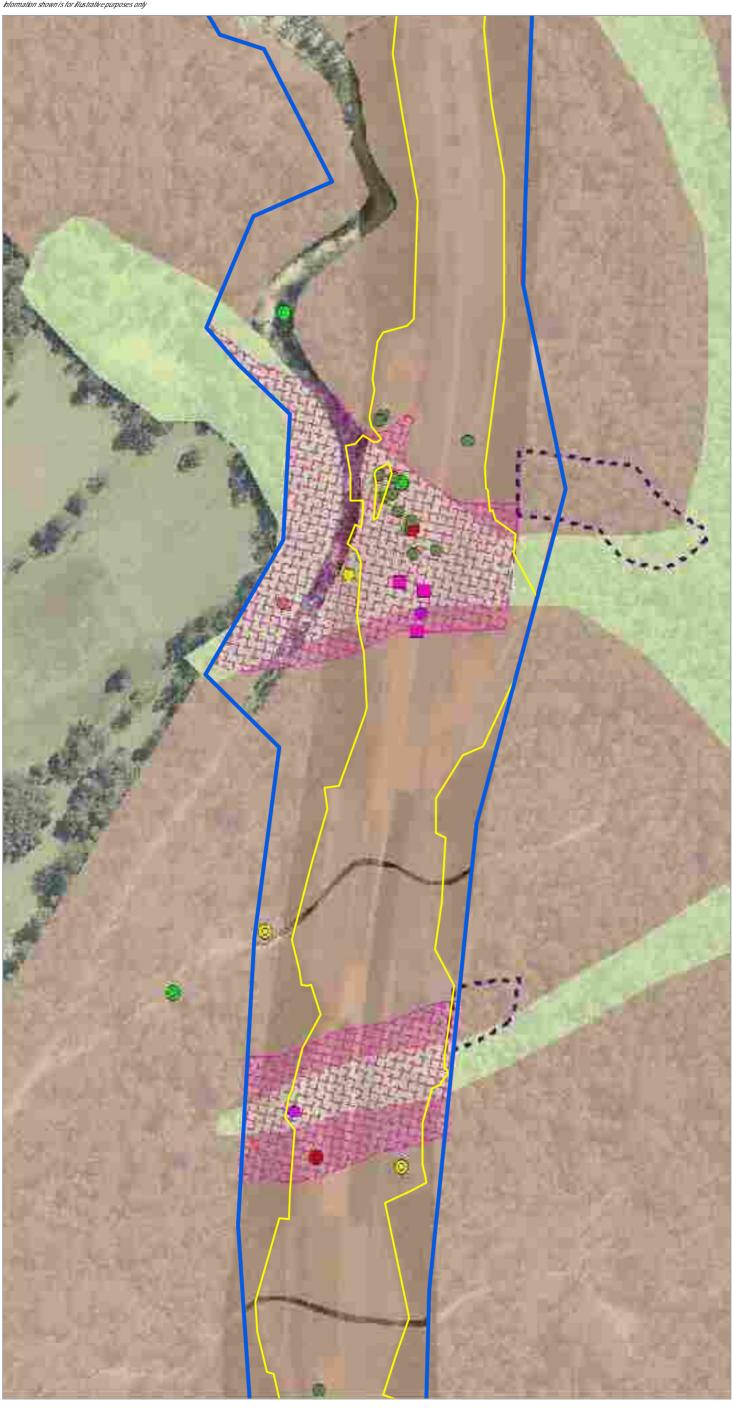


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LEGEND Pacifico EPL Boundary
20yr ARI flood

Sensitive Area Plans **WC2NH** 2378-1457 - Rev G - 14/08/2018

Map Sheet 23 of 27



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Site boundary

Clearing limit
Pacifico EPL Boundary
Cabbage tree palm resource site

Additional Artanema fimbriatum

Artanema fimbriatum

Marsdenia longiloba

Pseudovanilla foliata

Caladenia (Spider Orchid)

Green-thighed frog breeding pond

Habitat trees - GeoLINK R

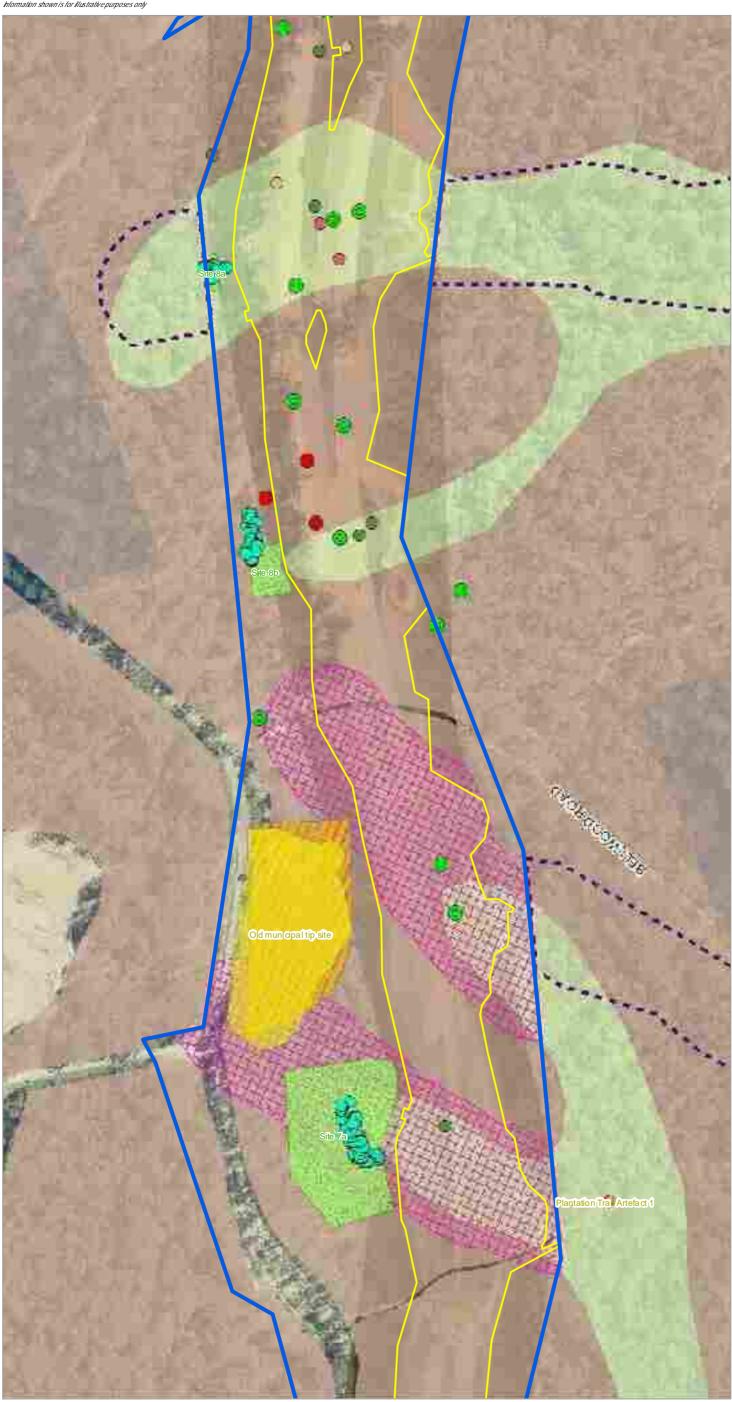
R Habitat trees

Potential Likely Green-thighed frog habitat - ${\sf GeoLINK}$ 

Moist Open Forest - Flooded Gum

Open Forest - Blackbutt

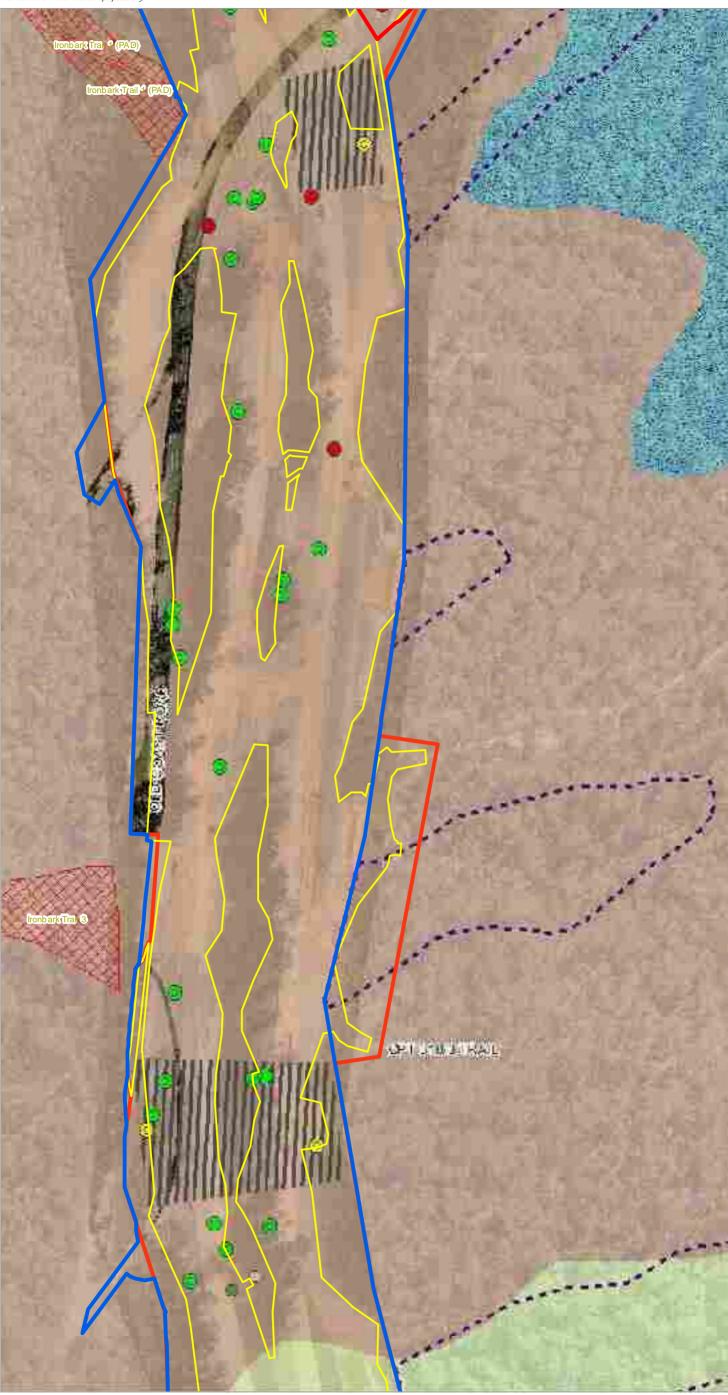
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LEGEND Site boundary Clearing limit
Pacifico EPL Boundary
Archaeological PAD/Site Non-Aboriginal heritage site
Cabbage tree palm resource site
Potential contaminated site Translocated Marsdenia longiloba Marsdenia longiloba Tylophora woollsii Caladenia (Spider Orchid) R Habitat trees - GeoLINK R Habitat trees Translocation receival site Potential Likely Green-thighed frog habitat -GeoLINK Moist Open Forest - Flooded Gum Open Forest - Blackbutt

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Site boundary

Clearing limit

Pacifico EPL Boundary
Archaeological PAD/Site
Cabbage tree palm resource site
( Marsdenia longiloba

Tylophora woollsii

R Green-thighed frog breeding pond
R Habitat trees - GeoLINK

R Habitat trees

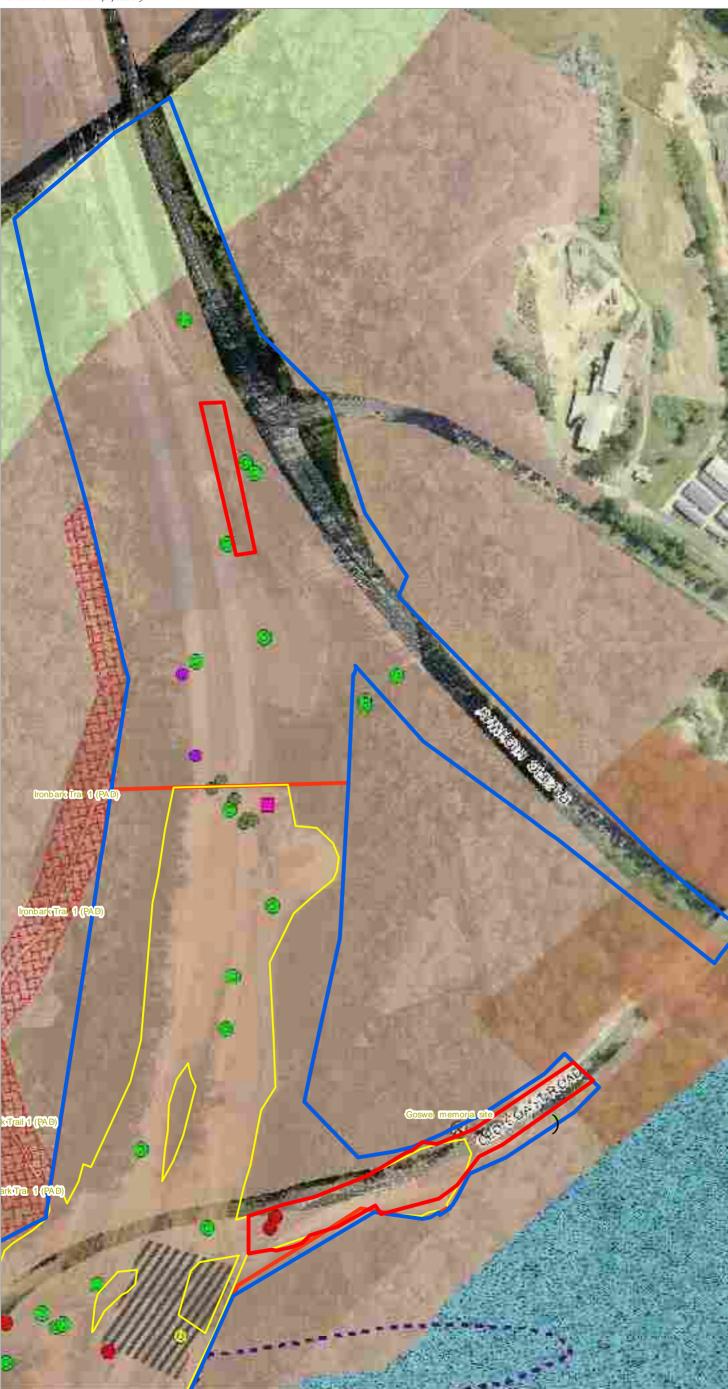
Green-thighed frog habitat
Moist Open Forest - Flooded Gum

Open Forest - Blackbutt

Swamp Forest - Swamp Mahogany / Paperbark

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Site boundary

Clearing limit

Pacifico EPL Boundary

Archaeological PAD/Site

? Identified archaeological location
Cabbage tree palm resource site
Additional Artanema fimbriatum
Artanema fimbriatum

Marsdenia longiloba Habitat tree

R Green-thighed frog breeding pond R Habitat trees - GeoLINK

R Habitat trees

Green-thighed frog habitat
Open Forest - Blackbutt

Swamp Forest - Swamp Mahogany / Paperbark

Sensitive Area Plans