

Environmental Representative Monthly Report: June 2018

Eden Breakwater Wharf Extension

6 July 2018

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Australia

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Synopsis

The Environmental Representative Report has been prepared to provide details of the actions and decisions on matters for which the Environmental Representative was responsible under the terms of the State Significant Infrastructure (SSI) Approval granted under the *Environmental Planning & Assessment Act 1979* for the Eden Breakwater Wharf Extension (the Project).

Specifically, this Report has been prepared to address the requirements in **Conditions A16(I)** of the Infrastructure Approval (SSI 7734).

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Rev	Description	Author	Review	Advisian Approval	Date
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Acronyms and Terms

Acronym/Term	Definition
BVSC	Bega Valley Shire Council
CEMP	Construction Environmental Management Plan
Consistency assessment	An assessment of whether a proposed activity for the purpose of the SSI is consistent with the terms of approval
Construction	Includes all physical work required to construct the SSI, other than the following low impact work: <ul style="list-style-type: none"> a. Survey works including carrying out general alignment survey, installing survey controls (including installation of global positioning system (GPS)), installing repeater stations, carrying out survey of existing and future utilities and building and road dilapidation surveys, and hydrographic survey; b. Background and/or baseline monitoring works; c. Investigations including investigative drilling and excavation; d. Establishment of ancillary facilities in approved locations or in locations meeting the criteria identified in Conditions A9 and Condition A11 of the approval including constructing ancillary facility access roads and providing utilities to the facility; e. Operation of ancillary facilities if the ER has determined the operational activities will have minimal impact on the environment and community; f. Minor clearing and relocation of native vegetation, as identified in the EIS/Submissions Report; g. Installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments; h. Relocation and connection of utilities where the relocation or connection does not present a significant risk to the environment as determined by the ER; i. Archaeological testing under the <i>Code of practice for archaeological investigation of Aboriginal objects in NSW</i> (DECCW 2010) or archaeological monitoring undertaken in association with [a]-[i] above to ensure that there is no impact on heritage items; j. Other activities determined by the ER to have minimal environmental impact which may include construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access; and



Acronym/Term	Definition
	<p>k. Maintenance of existing buildings and structures required to facilitate the carrying out of the SSI. However, where heritage items, or threatened species, populations or ecological communities (within the meaning of the EP&A Act) are affected or potentially affected by any low impact work, that work is construction, unless otherwise determined by the Secretary in consultation with OEH or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation). The low impact work described in this definition becomes construction with the approval of a Construction Environmental Management Plan.</p>
Department	NSW Department of Planning and Environment
DoEE	Commonwealth Department of the Environment and Energy
DPI – Fisheries	NSW Department of Primary Industries – Fisheries
Dumping Activities	<p>Defined in the Sea Dumping Permit Variation as: <i>means all activities associated with the dumping permitted under this permit, including:</i></p> <ul style="list-style-type: none"> (i) <i>the loading for the purpose of dumping of dredged material;</i> (ii) <i>the dumping of the material at the prescribed disposal site</i>
ER	The Environmental Representative for the SSI
Incident	<p>An occurrence or set of circumstances that:</p> <ul style="list-style-type: none"> ▪ Causes, or threatens to cause, material harm to the environment, community or any member of the community, being actual or potential harm to the health or safety of human beings or to threatened species, endangered ecological communities or ecosystems that is not trivial; or ▪ Results in non-compliance with the approval. <p><i>Note: this meaning of “material harm” applies for the purpose of the approval only</i></p>
Marine Species	Means all whales, dolphins and marine turtles listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i>
MMO	Marine Mammal Observer
Monitoring zone	The area within a 300 metre radius of the (dredging disposal) vessel
Proponent	The person identified as such in Schedule 1 of the SSI approval and any other person carrying out any part of the SSI from time to time
Sea Dumping Permit Variation	Sea Dumping Permit (SD2015/3102) Variation issued by DoEE under the <i>Environment Protection (Sea Dumping) Act 1981</i> , dated 27 April 2017



Acronym/Term	Definition
Secretary	Secretary of the NSW Department of Planning and Environment (or nominee, whether nominated before or after the date in which the SSI approval was granted)
Sensitive receivers	Includes residences, educational institutions (including preschools, schools, universities, TAFE colleges), health care facilities (including nursing homes, hospitals), religious facilities (including churches), child care centres, passive recreation areas (including outdoor grounds used for teaching), active recreation areas (including parks and sports grounds), commercial premises (including film and television studios, research facilities ,entertainment spaces, temporary accommodation such as caravan parks and camping grounds, restaurants, office premises, retail spaces and industrial premises), and others as identified by the Secretary
SSI	The State Significant Infrastructure, as generally described in Schedule 1 (SSE 7734), the carrying out of which is approved under the terms of the approval
Whales	Species listed under the <i>Environment Protection Biodiversity Conservation Act 1999</i> (EPBC Act)



1 Introduction

The Eden Breakwater Wharf Extension Project (the Project) includes the extension of the existing Eden Breakwater Wharf and associated dredging.

The Infrastructure Approval (SSI Approval No. 7734) was granted for the Project by the Executive Director, Priority Projects Assessment (as delegate of the Minister for Planning) on 5 July 2017.

The Construction Environmental Management Plan (CEMP) and CEMP Sub-plans have been prepared, approved by the Secretary of the Department of Planning and Environment (the Department) on the 22 August 2017, and implemented. Revised CEMP and CEMP Sub-plans relevant to Stage 2¹ of the Project were updated and subsequently approved by the Department on 28 February 2018.

This Environmental Representative (ER) Report (Report) addresses **Condition A16(I)** of the Infrastructure Approval. This Report provides an update on the environmental and social performance of the Project's construction.

1.1 Purpose and Content of this Report

Condition A16(I) of the Infrastructure Approval requires an ER Report to be prepared and submitted to the Secretary for information each month. This will be submitted within seven days following the end of each month for the duration of Construction of the Project or as otherwise negotiated with the Secretary. The report details the actions and decisions on matters for which the ER was responsible in the preceding month.

Further, **Condition C16** requires the results of the Construction Monitoring Programs be submitted to the Secretary and relevant regulatory agencies, for information at the frequency identified in the relevant Construction Monitoring Program. As these reports will be monthly, relevant information will be contained and submitted along with this report.

Construction of Stage 1 commenced on 4 September 2017, as marked by the arrival of the tugs, split-hopper barges and the dredge. Construction of Stage 2 commenced on 13 April 2018, as marked by the commencement of survey for scour protection removal in anticipation of pile installation. This report covers construction activities from 1 June 2018 to 30 June 2018.

¹ Stage 2 is outlined in the Project Staging Report (Advisian 2017, as submitted to the Secretary 24 July 2017 in accordance with **Condition A37** of the Infrastructure Approval)



1.2 Project Description

The Project is located in Snug Cove, Eden, New South Wales and comprises the extension of the existing Eden Breakwater Wharf and dredging of the approach channel and berth pocket with offshore disposal, to accommodate the berthing of cruise ships of up to 325m in length.

Key features of the Project include:

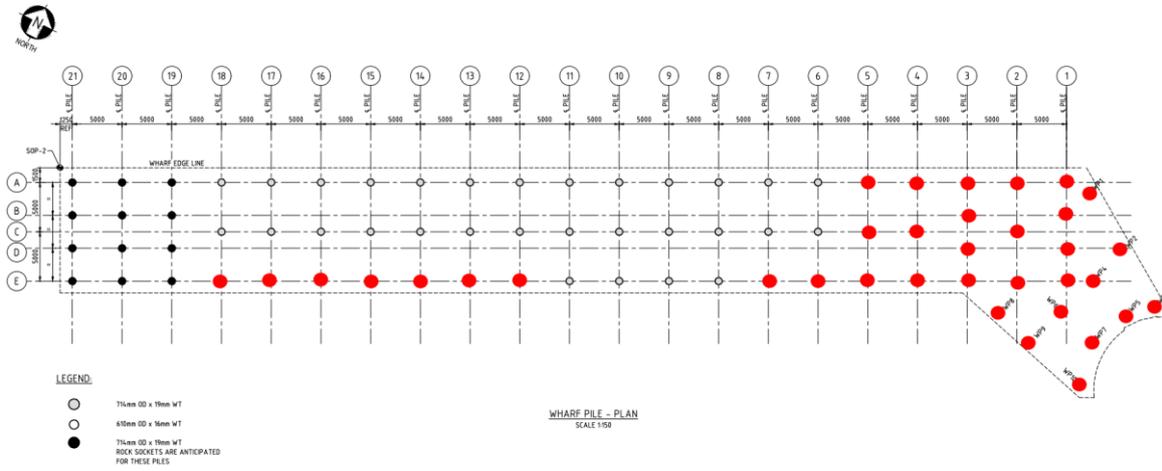
- Extension of the existing wharf by approximately 95m, including 78 piles to support the extension
- Installation of three mooring dolphins and two berthing dolphins, including 30 piles
- Installation of new landside bollards to restrain the ship's bow, including 18 piles
- Dredging of 210,148m³ of in-situ material
- Transport and placement of the dredge material at an offshore disposal site
- Installation of minor services (lighting, power, potable water and emergency water)
- Installation of navigational aids.

1.3 Project Status

Waterway Constructions was awarded the Stage 2 Marine Structures contract on 27 October 2017, with site access granted 7 March 2018 and construction works commenced on 27 March 2018.

During the period covered by this report (1 June 2018 to 30 June 2018), the following key activities were undertaken and milestones achieved relating to the Project:

- On-site noise monitoring ongoing
- Piling works ongoing (refer to Figure 1), 36 wharf piles and six onshore bollards have been completed
- Precast concrete deck plank fabrication ongoing (off-site fabrication) approximately 132 of 252 planks have been poured.



Note: Red flagged piles are complete

Figure 1: Piling progress



2 Review and Amendments to the CEMP or Approvals

2.1 CEMP amendments

The CEMP and CEMP Sub-plans for Stage 1 of the Project were formally approved by the Secretary on 22 August 2017.

The CEMP and CEMP Sub-plans for Stage 2 of the Project were prepared and submitted to the Department for approval. The CEMP and CEMP Sub-plans were approved by the Secretary on 28 February 2018.

During this reporting period, there were no reviews or minor amendments made to the CEMP and/or CEMP Sub-plans.

2.2 Infrastructure Approval Amendments

Consultation is going on with the Department and the Community Consultation Committee (CCC) regarding a potential modification to a number of operational conditions concerning noise amenity and air quality (E17, E18, E20, and E22). Written comments have been received regarding the potential amendments, some comments support the changes and some comments raise concerns.

Additional noise and air quality assessments have been undertaken to support the modification request, and the request will be submitted to the Department in the near future.



3 Environmental Performance

Environmental performance was measured through observation of construction activities and identification of continual improvement opportunities.

3.1 Environmental Issues

For this reporting period, there were two environmental performance issues that occurred on-site.

3.1.1 Minor Hydraulic Oil Leak

Prior to pile driving on the 13 June 2018 the onshore pile driving rig developed a hydraulic leak that resulted in up to 100ml of oil spraying onto the rig engine block and some into surrounding water. The leak was the result of the temperature sensor for the hydraulic oil cooler being damaged by the lifting gear, causing the fitting to leak under pressure. Once the leak was identified the rig was immediately shut down and spill kits were used to contain and clean up any spill. It should be noted the spill was contained to the rig and within the floating containment boom.

The spill was cleaned up with no residual oil evident after the leak. An incident report was prepared and it was noted that there was no impact to the environment and the report was closed out.

3.1.2 Minor Hydraulic Oil Leak

On the 21 June 2018, the skid steer loader was removing pile arisings from the onshore bollard rock socket drilling activities and disposing of the raisings into an adjacent skip bin for removal. The spotter identified a small oil leak on the ground and stopped the operations immediately. Approximately 200ml of oil was spilt to ground and was immediately cleaned up. The leak was found to be the inlet hydraulic line to the bucket had been damaged through vibration wear over time. The hydraulic line was replaced and a significant service for the skid steer has been brought forward.

The spill was cleaned up with no residual oil evident after the leak. An incident report was prepared and it was noted that there was no impact to the environment and the report was closed out.



3.2 Weekly Observations

Table 3-1 provides a list of actions and close out from the weekly observations inspections.

Table 3-1: Actions from Weekly Observations

Date raised	Action identified	Action undertaken	Date closed
9/5/18	Confirm crew trained in firefighting, and if not, arrange training	N/A - Action still open, with the training date to be confirmed	6/6/18
7/6/18	Litter starting to accumulate on site. Discuss with crew a reminder of good housekeeping/habits.	Housekeeping discussed with crew	21/6/18
14/6/18	Check Concreting WMS (or WMS that addresses concreting) to ensure it manages noise impacts	WWC HSE advised, drafted WMS reviewed and noise/vibration management measures considered	21/6/18
21/6/18	Hazardous waste bin to be emptied	Bin emptied on the 25/06/18	25/6/18

3.3 Environmental Audit

An environmental audit was undertaken by the ER on the 31 May 2018. The Audit Report was provided in the previous ER Report.

Based on the findings from the audit an Action Plan was developed and provided in Table 3-2. Table 3-2 also shows the action status.

Table 3-2: Action Plan

No.	Action required	Responsibility	Status
1	Prepare a Cetacean register outlining dates and times, cetaceans observed and actions.	Principal	On going



No.	Action required	Responsibility	Status
2	Designate and delineate appropriate smoking area(s) with appropriate signage for the site.	Waterway Constructions	Complete
3	Remove the IBC containing oily water or ensure it is bunded.	Waterway Constructions	The IBC has been bunded and awaiting removal
4	Inspect all spill kits and replenished the contents, as required.	Waterway Constructions	Complete



4 Environmental Monitoring Summary

Monitoring for Stage 2 activities included observations on aquatic ecology, water quality and air quality, and site-based monitoring for noise amenity and vibration. No observations have identified any adverse environmental impacts due to the Project.

Marine Mammal Observer (MMO) trained personnel were onsite conducting observations during piling works in line with the requirements of the EPBC Act Referral Decision Notice conditions. The following was noted during this reporting period:

- No incidents involving marine mammals have occurred
- Whales have been sighted in Twofold Bay, but have stayed out of the observation and shut-down zones.

Noise and vibration monitoring equipment was installed on the 27 April 2018 prior to the commencement of piling on the 28 April 2018. The vibration monitoring equipment was in place for two weeks and has now been removed, and noise monitoring equipment will remain in place for during of piling to monitor any adverse impacts. No noise or vibrations incidents or non-conformances have been raised during this reporting period. A Noise Monitoring Report is expected early next week, and will be included in the ER Report for the July 2018 reporting period.



5 Environmental Incidents / Complaints

Zero environmental incidents occurred on the project, however, two environmental issues occurred on-site, refer to section 3.

Zero community complaints have been received regarding the Project.