SPILL AND WASTE MANAGEMENT PLAN

Appendix J

PROJECT

Mission Beach Clump Point,
Boating Infrastructure Project,
Element 1: CN-10244

Site Location: Clump Point, Mission Beach QLD

Project Commencement Date: December 2018
Project Duration: 52 Weeks

PRINCIPAL CONTRACTOR

MGN Civil Pty Ltd
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PREPARATION AND AUTHORISATION

DATE	NAME	POSITION	SIGNATURE
9 Jan 2019	Andrew Schweitzer	Project Manager	

REVISION STATUS

REVISION	DATE	DETAILS	PREPARED BY	APPROVED BY
A	9/1/19	Original	A Schweitzer	G Schweitzer

DISTRIBUTION LIST

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1	Chris Voisey	TMR
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1 INTRODUCTION

1.1 Purpose

This Spills and Waste Management Plan sets out the requirements for the notification, response and management of pollution spills and waste management at the Clump Point Project area.

The management plan has been developed to meet the requirements of the Clump Point project Construction Environmental Management Plan.

In addition, the plan aims satisfying the requirements of *Environmental Protection (Water) Policy* 2009, management of hazardous substances or dangerous goods (flammable and combustible liquid storage) shall comply with AS 1940 and AS 3833. MGN shall be responsible for management of Wastes generated from Work under the Contract in accordance with the *Environmental Protection Act* 1994.

1.2 Locality

Clump Point is a coastal promontory located at the northern extent of the town of Mission Beach. The facility at the point creates a shallow, north-facing coastal embayment known as Boat Bay. The existing infrastructure and facilities at Clump Point consist of the following:

- Two-lane boat ramp;
- Rock breakwater;
- Floating walkway; and
- Car and boat trailer parking facilities.
- The boat ramp and facilities are accessible by Clump Point Road, which joins to Alexander Drive/Porter Promenade.

1.3 Project Overview

The Project consists of the following works:

- Construction of a new detached breakwater;
- Upgrade of existing breakwater, including removal of existing breakwater return and reclamation of intertidal and subtidal land;
- Upgrade of lower carpark;
- Upgrade of boat launching facility, including extension of the existing ramp, new heavy-duty boat ramp, and treatment of inner breakwater to bind armour;

- Construction of a composting toilet; and
- Installation of solar-powered navigational lighting and public access lighting

2 Spill Management

The following actions are undertaken by MGN Civil in order to minimise risks to human health and the environment arising from the activities that may cause a spill.

- Training of staff in the safe handling and use of chemicals, fuels, oils and lubricant;
- Provision, training and use of spill containment kits;
- Bunding of, fuel, oil and lubricant storage containers;
- Regular and routine condition inspection of hydrocarbon and chemical storage;
- Daily plant checks to ensure hoses and fittings are in good working order;
- Refuelling of vehicles and machines will occur 25m away from any water;
- Fuelling activity to be supervised at all times, and
- Hoses to be fitted with a stop valve at the nozzle end.

MGN Civil will ensure spill response equipment is available on the Site for use in an emergency. Spill response equipment shall be located at the site as shown in Figure 1.

Figure 1 Site Setup

MGN will, promptly remediate any contamination resulting from spills, leaks and discharges to a condition similar to that existing before the contamination and to the Administrator's satisfaction.

Table 1 below highlights the types of pollutants that will exist on site and maximum volumes.

Table 1 Potential Pollutants

Location	Pollutant	Max Quantity
Administration Area (bunded fuel trailer)	Diesel	4,500L
Storage Container	Lubricants for machines	20L drum x 5
Storage Container	Oils (Hydraulic, gear oil)	20L drums x 5

Table 2 below shows how MGN will manage risks associated with hydrocarbon/chemical spills.

Table 2 Management Measures - Spills

Objective (s)	1. To manage all construction activities with the potential to cause spills to contaminated soil and/or waterways.		
Actions	**Requirements**	**Responsibility**	**Timing**
	All chemicals will be stored in bunded, roofed areas, clearly labelled with MSDS's kept nearby	Construction Manager	All the time
	Spill kits to be maintained on site. Staff to be trained in use of spill kits	Construction Manager/Project Manager	All the time
	Ensure spill kits are appropriate for the location. Marine Spill Kit x 1 to contain 100m of pre-joined boom. Land Spill Kit x 2 to contain - absorbent pads, small marine boom 10m, Bio-remediator, gloves, bags for collection of material.	Project Manager	Prior to works starting
	Only minor servicing of plant and equipment to take place on site.	Construction Manager	All the time
	Fuel will be stored on site in a dedicated registered bunded trailer and purchased through local supply.	Construction Manager	All the time
	Fuelling of vehicles to from bunded trailer area away from waterways or stormwater inlets.	Construction Manager	All the time
	Ensure site staff are trained in emergency spill response.	Project Manager/ Construction Manager	Before and during project
	All used spill equipment is disposed of legally and kits replenished.	Construction Manager	As required
Performance Indicators	No spills	Construction Manager	All the time
Monitoring	Chemical storage areas and spill kits will be inspected on a routine basis.	Construction Manager	All the time
Reporting	Reporting of any spills to Construction Manager and TMR.	All staff Project Manager	All the time

	If spill occurs on water or spill enters water in the GBRMP, notification to GBRMPA must also be made. For major pollution events Project Manager to phone the **24/7 Pollution Hotline - 1300 130 372**		
Corrective Actions	Review procedure or installation causing loss and rectify immediately	Project Manager	After spill incident

3 Waste Management

MGN is responsible for management of wastes generated from Work under the Contract in accordance with the Environmental Protection Act 1994.

MGN adopts a waste management hierarchy of avoidance, reuse recycling, energy recovery and lawful disposal of wastes

Upon completion of Works, MGN will ensure that all wastes have been removed from Site or otherwise lawfully disposed of on Site.

Table 2 below highlights the type of expected waste from the project and disposal methods.

Table 3 Source of Waste and Disposal method

Source of Waste	Action
General Waste (e.g. food scraps, general rubbish)	General waste will be separated into recycling and general waste and deposited offsite at the Tully Waste Facility.
Construction Waste: - General Construction Waste	General construction waste will be deposited offsite at the Tully Waste Facility.
Sewage:	For this project, a construction ablution block will be used for the duration of the works (i.e. Coates Hire or similar). Typically, these are pumped out by the hire company every fortnight dependant on usage.
Hazardous Waste:	With only one or two/three pieces of plant likely on the site at any one time, generation of hazardous waste will be minimal. From time to time small quantities of oils may be generated. These wastes will be deposited at the Tully Waste Facility which has a used oil facility. MSDS kept on site for all hazardous chemicals including oils and diesels stored on site.
Green Waste	Any excess vegetation material that has been cleared and chipped and not required on site for the project will be delivered to Tully Waste Facility.
Excavated inter-tidal material	All earth material excavated will be treated with sawdust or clean dry soil (dependent on availability) to ensure waste is considered a clean, solid waste prior to removal to the Tully Waste Facility.

Table 4 Management Measure - Waste

Objective (s)	1. Maximise reuse/recycling of waste material and minimise waste disposed of to landfill. 2. All waste lawfully disposed. 3. Site to be neat and tidy.		
Actions	**Requirements**	**Responsibility**	**Timing**
	Waste management shall be conducted to adopt the most efficient use of resources, reduce environmental harm, and provide for the continual reduction in waste generation in line with the principles of environmentally sustainable development.	Project Manager	Prior to works commencing
	Waste generated by the works shall be transported to a place that can lawfully accept it.	Construction Manager	Throughout construction works
	General, recycled and construction waste receptacles to be provided on site.	Construction Manager	Prior to works commencing
	Staff to be advised of requirement to use correct bins provided in toolbox meetings.	Construction Manager	Prior to works commencing
	Trucks to be loaded to ensure no loose materials drop during transportation.	Construction Manager	Throughout construction works
	Trucks to be cleaned prior to transport to ensure wheels and draw bars a free of rock / loose material.	Construction Manager	Throughout construction works
	Any waste accidently release in water must be recovered immediately.	Construction manager	Throughout construction works
	At the completion of the works the site is to be restored to its pre works condition.	Construction Manager	At the completion of the works
Performance Indicators	No waste deliberately or unintentionally released	Construction Manager	Throughout construction works
	Site is left clean upon completion of works	Construction Manager	Throughout construction works
Monitoring	Waste receptacles will be inspected daily and emptied as required	Construction Manager	Throughout construction works
	Site to be inspected daily for rubbish	Construction Manager	Throughout construction works
	Public roads leading into the site to be inspected daily	Construction Manager	Throughout the construction works
Reporting	Staff to be briefed to keep site clean	All staff	Throughout construction works

Corrective Actions	Any loose waste to be disposed of immediately	Construction Manager	Throughout construction works

ATTACHMENTS Form C – Contractor's Waste Register

Project								**Month**					
Waste	**Generated**			**Reused**			**Recycled**			**Disposed to landfill**			
	tonnes	kg	litres	tonnes	kg	litres	tonnes	kg	litres	tonnes	kg	litres	Cost ($)
Metal													
Paper / card board													
Green waste (vegetation)													
General refuse													
Excess earthworks (unsuitable or excess material including acid sulphate soil material)													
Profiled materials, asphalt, hot / cold mix, bitumen													
Concrete													
Regulated waste (including but not limited to paint, oil, paint sludge, paint water, resins / epoxies, thinners, abrasive blasting waste, emulsion, tyres)													
Regulated waste that is contaminated soil													
Regulated waste containers (paint / oil / pesticides etc.)													
Third party Illegally dumped refuse and litter removed from Site by Contractor													

Minor Environmental Incident Log

Template : Minor Environmental Incident Log	Revision Number: 1
	Effective Date:

Purpose: The Minor Environmental Incident Log forms part of the Environmental Management Plan. It is used to record those incidents that are minor and contained within the project/workshop/site boundaries. Although the Minor Environmental Incident Log can be used by all personnel, the Project Manager, and/or Facility Manager is accountable for ensuring the log is being used appropriately.

Project/Facility Name:		**Project/Facility Manager**:	

Date of Incident	Brief Description of Incident	Close Out of Actions	Date and Initial by EO &/or PM

TMR Environmental Incident Report Form

Environment and Heritage Incident Report Form	**Form Number: 1 /2011 effective from 1 December 2012** **Purpose: Use when no access to TMR WIN system**

SECTION 1 – Incident Details	
Submitter's Name:	
Submitter's Position:	
Submitter's Phone Number:	
Incident Location (road name, number and chainage or GPS or property description or address)	
Date/Time Occurred:	
Date/Time Identified:	
Project/Site Name and Number	
Project/Site Managers Name	
Contractor (if relevant)	
Contract/Approval Type	

Does this incident need to be reported to regulatory authorities? ☐ YES ☐ NO ☐ UNSURE

Has an infringement notice or warning been received from a regulatory agency (e.g. DES or DAFF)?

☐ YES from [insert administering authority] Reference No. [insert reference number] ☐ NO

SECTION 2 – Incident Description (Attach photos or reports or evidence where possible)	
What occurred? (e.g. 300m^2 was cleared by the contractor which was outside of the limits specified in the contract) **What was impacted or potentially could have been impacted?** (e.g. the vegetation wrongly cleared was regional ecosystem 11.4.5 and was considered to be in good condition with minimal disturbance. The vegetation was listed under the EPBC Act.) **What are potential on-going impacts from the incident?** (e.g. the soils are dispersive and have high erosion potential and this was	

the habitat for the endangered Bull Tree Butterfly). **What was the scale of the incident?** (e.g. 300m^2 cleared over 500m of road reserve. This represents 30% of the RE in the immediate area >10km radius). **Temporary controls implemented?** **Other Comments?**	

SECTION 4 – Immediate Corrective Action and Remediation		
Recommended Controls or Treatments	**Responsible Officer**	**Action Date**
The actions should reduce or eliminate the direct and indirect impacts of the incident.		

SECTION 5 – Approved Course of Action		
APPROVED for implementation APPROVED WITH FOLLOWING CHANGES to recommendations NOT APPROVED for following reasons		
Name and Position:	**Signature**:	**Date**: