

Permit

Environmental Protection Act 1994

Environmental authority EPPR00618513

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR00618513

Environmental authority takes effect on 07 May 2019

Environmental authority holder(s)

Name(s)	Registered address
REDLAND CITY COUNCIL	55-59 Bloomfield Street CLEVELAND QLD 4163 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 23/SP144276
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 24/SP199973
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Lot 276/M332687
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 136/SP127969
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 20/SP153278
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 79/SL7088
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 197/SP123870
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 170/SL11484

Environmental authority

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 113/RP209640
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 3/SP221213
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to Lot 23/SP144276
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to Lot 24/SP199973
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Lot 276/M332687
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to Lot 136/SP127969
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to Lot 20/SP153278
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to Lot 79/SL7088
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to LOT 197/SP123870
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to LOT 170/SL11484
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (b) more than 10,000t but not more than 100,000t	Adjacent to LOT 113/RP209640
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of	Adjacent to LOT 3/SP221213

Environmental authority

Environmentally relevant activity/activities	Location(s)
material, (b) more than 10,000t but not more than 100,000t	
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to Lot 23/SP144276
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to Lot 24/SP199973
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Lot 276/M332687
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to Lot 136/SP127969
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to Lot 20/SP153278
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to Lot 79/SL7088
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to LOT 197/SP123870
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to LOT 170/SL11484
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to LOT 113/RP209640
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	Adjacent to LOT 3/SP221213
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 23/SP144276
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 24/SP199973
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Lot 276/M332687

Environmental authority

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 136/SP127969
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 20/SP153278
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to Lot 79/SL7088
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 197/SP123870
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 170/SL11484
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 113/RP209640
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Adjacent to LOT 3/SP221213
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to LOT 115/SL9166
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to Lot 23/SP144276
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to Lot 24/SP199973
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Lot 276/M332687
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to Lot 136/SP127969
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of	Adjacent to Lot 20/SP153278

Environmental authority

Environmentally relevant activity/activities	Location(s)
material, (c) more than 100,000t but not more than 1,000,000t	
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to Lot 79/SL7088
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to LOT 197/SP123870
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to LOT 170/SL11484
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to LOT 113/RP209640
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (c) more than 100,000t but not more than 1,000,000t	Adjacent to LOT 3/SP221213

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the Environmental Protection Act 1994 (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

Environmental authority

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the Planning Act 2016 or an SDA Approval under the State Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Christine Mooney
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Heritage, Utilities and Government Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Date issued: 07 May 2019

Environmental authority

Obligations under the Environmental Protection Act 1994

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site.

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at www.dnrme.qld.gov.au, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1

Location: 12 Emmett Drive CLEVELAND - Lot 20 Plan SP153278

Relevant activity: 16-(1a) Dredging >1000t but <10000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
1- G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
1-G2	You must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
1-G3	You must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
1-G4	Any breach of a condition of this environmental authority, must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
1-G5	Not more than six (6) weeks following the cessation of carrying out the environmentally relevant activity , if water quality release limits are exceeded Table 1-2 Surface water release limits, submit a report detailing the management practices adopted to protect water quality. All monitoring results will be provided in this report.

1-G6	Other than as permitted by this environmental authority , the release of a contaminant into the environment must not occur.
1-G7	All records must be kept for a period of at least five years and provided to the administering authority upon request.
1-G8	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.
1-G9	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
1-G10	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: <ol style="list-style-type: none"> 1. The only form of dredging to be carried out is for the creation of the Toondah Harbour Ferry Terminal. 2. The dredging activity and any disturbance to flora and fauna (both aquatic and terrestrial), rock bars or riffle areas that create natural pools or sand, gravel and clay in the bed of the waters must only be carried out in the site marked in schedule 1-1 – Maps/Plans of this document. 3. The only areas permitted to be dredged under this approval are those shown in schedule 1-1-Maps/Plans, Figure 2. 4. The disposal of dredged spoil may not occur onsite.
1-G11	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
1-G12	You must record the following details for all environmental complaints received: <ol style="list-style-type: none"> a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
1-G13	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided to the administering authority , or nominated delegate , within the required timeframe and in the specified format upon request.
Agency interest: Air	
Condition number	Condition
1-A1	Other than as permitted within this environmental authority , Odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .

1-A2	Dust and particulate matter emissions must not exceed the following concentrations at any sensitive place or commercial place : a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority .					
Agency interest: Land						
Condition number	Condition					
1-L1	Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .					
1-L2	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <ol style="list-style-type: none"> 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, does not cause environmental harm; 4. potential for environmental nuisance caused by dust is minimised; 5. the water quality of any residual water body does not have potential to cause environmental harm; 6. the final landform is stable and protects public safety. 					
Agency interest: Noise						
Condition number	Condition					
1-N1	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table 1-1 Noise limits and the associated requirements at any nuisance sensitive place or commercial place .					
1-N2	When required by the administering authority , noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 1—1 Noise Limits, and the results notified within 14 days to the administering authority . Monitoring must include: <ul style="list-style-type: none"> - $L_{A10,adj,15\ mins}$ - $L_{A1,adj,15\ mins}$ - the level and frequency of occurrence of any impulsive or tonal noise - atmospheric conditions including wind speed and direction - effects due to extraneous factors such as traffic noise; and - recording of location, date and time of measurements. 					
Table 1 - 1 Noise limits						
Noise level dB(A) measure as	Monday to Saturday			Sundays and Public Holidays		
	7.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 7.00am	9.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 9.00am
Noise measured at a 'Noise sensitive place'						
$L_{A10, adj, 15\ mins}$	50	45	35	50	45	35
$L_{A1, adj, 15\ mins}$	55	50	40	55	50	40

		Noise measured at a 'Commercial place'					
LA10, adj, 15 mins		55	50	40	55	50	40
LA1, adj, 15 mins		60	55	45	60	55	45
<p>Associated monitoring requirements</p> <p>1. All monitoring devices must be correctly calibrated and maintained.</p> <p>2. Any monitoring must be in accordance with the most recent version of the administering authority's 'Noise Measurement Manual'.</p> <p>3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.</p>							
Agency interest: Water							
Condition number	Condition						
1-WT1	Monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 1- 2 Surface water release limits.						
1-WT2	Contaminants must only be released to waters in compliance with the release limits listed in Table 1-2 Surface water release limits.						
1-WT3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.						
Table 1 - 2 Surface water release limits							
Release Limit							
Release/monitoring point	Quality characteristics	Minimum	33 th percentile	66 th percentile	Maximum	Monitoring frequency	
Background monitoring point							
Background - measured at an up current sampling and in situ monitoring point in the receiving waters not affected by releases from the works area and not more than 100 metres from the mouth of the harbour	pH					Twice weekly	
	Dissolved Oxygen (mg/L)						
	Suspended Solids (mg/L)	-	-	-	-		
	Turbidity (NTU)						
Receiving surface waters							
Down current waters within 50m of the works area at the mouth of the harbour	pH - where the background pH is less than 6.5 or more than 9.0	0.2 pH units below background	-	-	0.2 pH units above the background	Twice weekly	
	pH where the background pH is between 6.5 and 9.0	6.5	-	-	9.0		
	Dissolved Oxygen (mg/L)	6 or equal to the background level, whichever is least	-	-	-		
	Oil, grease, floating scum or litter	-			Nil	Daily (Visually)	
	Suspended Solids (mg/L)	-	Must not exceed	Must not exceed	-	Weekly (unless	

				10% greater than background value	30% greater than background value		visual indication of plume then daily)
	Turbidity	-		Must not exceed 10% greater than background value	Must not exceed 30% greater than background value	-	
	Aluminium –if pH is less than or equal to 6.5		-			5 µg/L	
	Aluminium –if pH is greater than 6.5	-	-	-	-	100 µg/L	
	Total Iron (Fe ²⁺ and Fe ³⁺)	-	-	-	-	1 000 µg/L	
	Ferrous Iron (Fe ³⁺)					300 µg/L	
<p>Associated monitoring requirements</p> <ol style="list-style-type: none"> 1. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection '<i>Monitoring and Sampling Manual</i>'. 2. Water and sediment samples must be representative of the general condition of the water body or sediments. 3. All determinations must employ analytical practical quantifications limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/ limits relevant to the particular water or sediment quality characteristic. 4. Monitoring must be undertaken during a release and at the frequency stated. 5. All monitoring devices must be effectively calibrated and maintained. 							
Agency interest: Waste							
Condition number	Condition						
1-W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.						

Schedule 1-1 Maps/Plans
Figure 1- Location of works

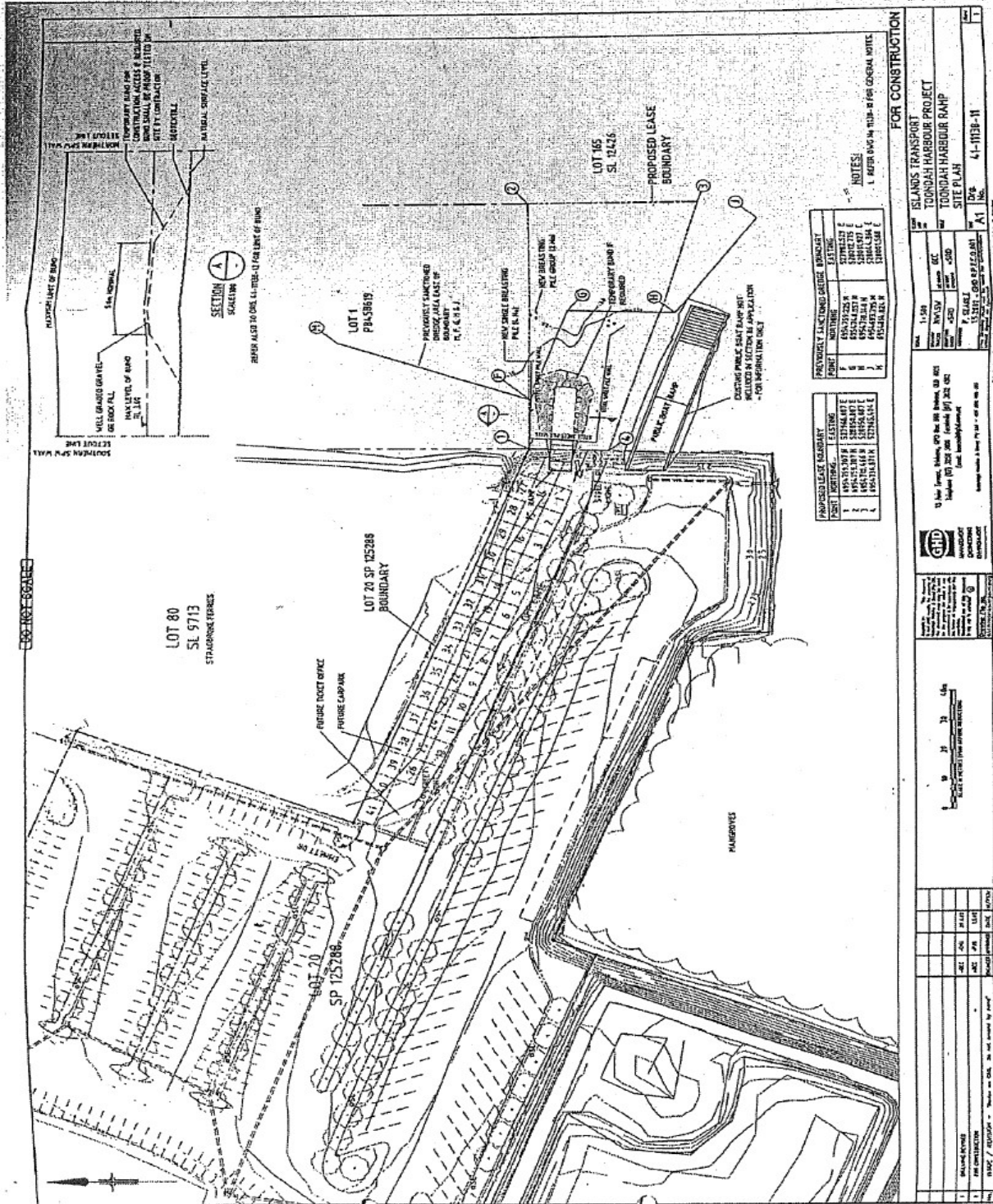
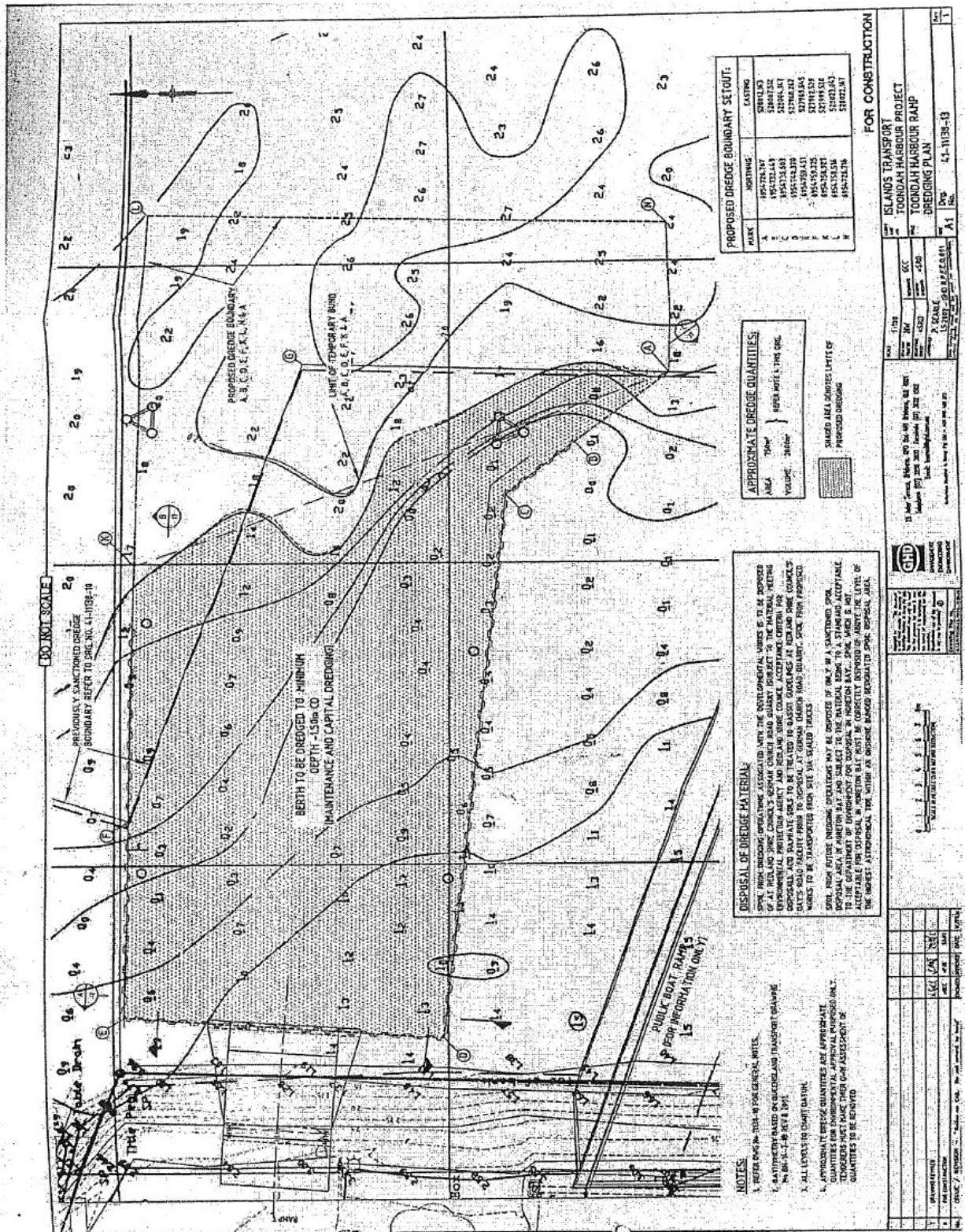


Figure 2- Extent of works



Part 2

Location: 9 Meissner Street REDLAND BAY QLD 4165 - Lot 197 Plan SP123870

Relevant activity: 16-(1b) Dredging >10000t but <100000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
2-G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
2-G2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
2-G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
2-G4	You must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
2-G5	You must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
2-G6	Not more than six (6) weeks following the cessation of the ERA, submit a report to the administering authority describing management practices adopted in the conduct of the ERA to protect water quality and to manage acid sulphate soils and/or contaminated dredge spoil and including results of all water monitoring required by Table 2 - 2 Surface water release limits hereof.
2-G7	All records must be kept for a period of at least five years and provided to the administering authority upon request.
2-G8	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.
2-G9	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.

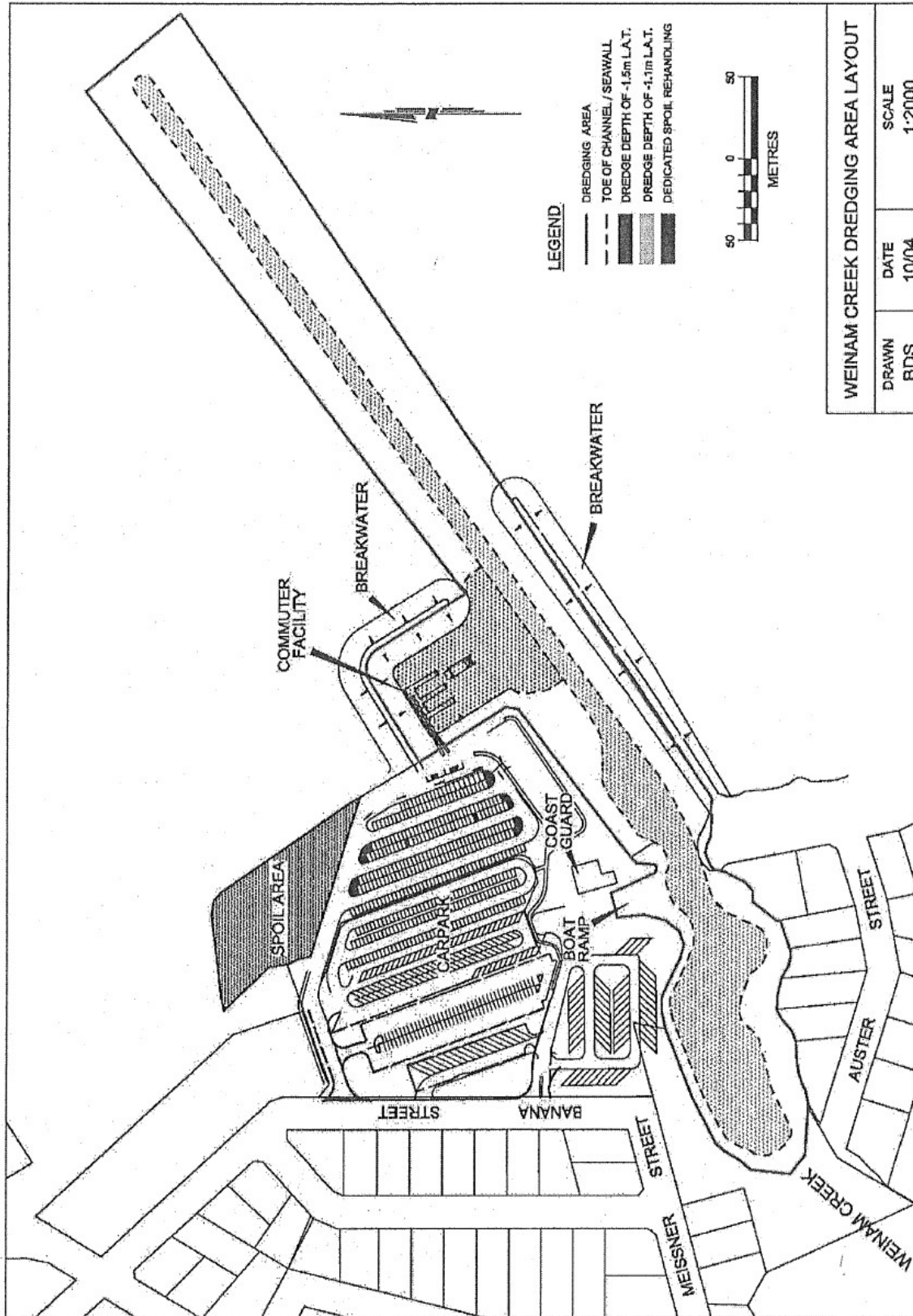
2-G10	<p>Any activity operating under this environmental authority must not be conducted contrary to any of the following limitations:</p> <ol style="list-style-type: none"> 1. The only area permitted to be dredged under this approval is that specified as "dredging area" on the site plan in Figure 1 of Schedule 2-1 Maps/Plans 2. The placement of all dredge spoil must occur at a location that does not detrimentally affect native riparian vegetation nor cause contamination of waters.
2-G11	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
2-G12	<p>You must record the following details for all environmental complaints received:</p> <ol style="list-style-type: none"> a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
2-G13	Provide to the administering authority written notification of the date when each dredging event will commence at least seven days prior thereto.
2-G14	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided to the administering authority , or nominated delegate, within the required timeframe and in the specified format upon request.
Agency interest: Air	
Condition number	Condition
2-A1	Other than as permitted within this environmental authority , odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
2-L1	Treatment and management of acid sulfate soils must comply with the current edition of the Queensland Acid Sulfate Soil Technical Manual.
2-L2	Other than as permitted by this environmental authority , the release of a contaminant into the environment must not occur.
2-L3	<p>Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that:</p> <ol style="list-style-type: none"> 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, does not cause environmental harm; 4. potential for environmental nuisance caused by dust is minimised; 5. the water quality of any residual water body does not have potential to cause environmental harm; 6. the final landform is stable and protects public safety.

Agency interest: Noise																																																												
Condition number	Condition																																																											
2-N1	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in <i>Table 2-1 Noise limits</i> and the associated requirements at any nuisance sensitive place or commercial place .																																																											
2-N2	<p>When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table 2-1 Noise limits</i>, and the results notified within 14 days to the administering authority.</p> <p>Monitoring must include:</p> <ul style="list-style-type: none"> - LA10,adj, 15 mins - LA1, adj, 15 mins - the level and frequency of occurrence of any impulsive or tonal noise - atmospheric conditions including wind speed and direction - effects due to extraneous factors such as traffic noise; and - recording of location, date and time of measurements. 																																																											
<p>Table 2 - 1 Noise limits</p> <table border="1"> <thead> <tr> <th rowspan="3">Noise level dB(A) measure as</th> <th colspan="3">Monday to Saturday</th> <th colspan="3">Sundays and Public Holidays</th> </tr> <tr> <th>7.00am – 6.00pm</th> <th>6.00pm – 10.00pm</th> <th>10.00pm – 7.00am</th> <th>9.00am – 6.00pm</th> <th>6.00pm – 10.00pm</th> <th>10.00pm – 9.00am</th> </tr> <tr> <th colspan="6">Noise measured at a 'Noise sensitive place'</th> </tr> </thead> <tbody> <tr> <td>LA10, adj, 15 mins</td> <td>50</td> <td>45</td> <td>35</td> <td>50</td> <td>45</td> <td>35</td> </tr> <tr> <td>LA1, adj, 15 mins</td> <td>55</td> <td>50</td> <td>40</td> <td>55</td> <td>50</td> <td>40</td> </tr> <tr> <th colspan="7">Noise measured at a 'Commercial place'</th> </tr> <tr> <td>LA10, adj, 15 mins</td> <td>55</td> <td>50</td> <td>40</td> <td>55</td> <td>50</td> <td>40</td> </tr> <tr> <td>LA1, adj, 15 mins</td> <td>60</td> <td>55</td> <td>45</td> <td>60</td> <td>55</td> <td>45</td> </tr> </tbody> </table> <p><u>Associated Monitoring Requirements</u></p> <ol style="list-style-type: none"> 1. All monitoring devices must be correctly calibrated and maintained. 2. Any monitoring must be in accordance with the most recent version of the administering authority's '<i>Noise Measurement Manual</i>'. 3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation. 							Noise level dB(A) measure as	Monday to Saturday			Sundays and Public Holidays			7.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 7.00am	9.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 9.00am	Noise measured at a 'Noise sensitive place'						LA10, adj, 15 mins	50	45	35	50	45	35	LA1, adj, 15 mins	55	50	40	55	50	40	Noise measured at a 'Commercial place'							LA10, adj, 15 mins	55	50	40	55	50	40	LA1, adj, 15 mins	60	55	45	60	55	45
Noise level dB(A) measure as	Monday to Saturday			Sundays and Public Holidays																																																								
	7.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 7.00am	9.00am – 6.00pm	6.00pm – 10.00pm	10.00pm – 9.00am																																																						
	Noise measured at a 'Noise sensitive place'																																																											
LA10, adj, 15 mins	50	45	35	50	45	35																																																						
LA1, adj, 15 mins	55	50	40	55	50	40																																																						
Noise measured at a 'Commercial place'																																																												
LA10, adj, 15 mins	55	50	40	55	50	40																																																						
LA1, adj, 15 mins	60	55	45	60	55	45																																																						
Agency interest: Water																																																												
Condition number	Condition																																																											
2-WT1	Monitoring must be undertaken at the locations, for the parameters and at the frequency specified in Table 2-2 Surface water release limits.																																																											
2-WT2	Water quality at the monitoring point must comply with the release limits prescribed by Table 2-2 Surface water release limits and the associated monitoring requirements.																																																											

Table 2 - 2 Surface water release limits				
Monitoring Point	Quality characteristics	Release limits		Monitoring frequency
		Minimum	Maximum	
Between 25 and 35 metres directly down current of the dredging activity on outgoing tide and during dredging	pH	6.5	8.5	Daily
	Turbidity (NTU)		No visible plume of disturbed silt during dredging or associated works beyond 30m of dredging works area.	
	Oil, grease, floating scum or litter		None visible	
	Aluminium (µg/L)		5	If pH less than or equal to 6.5 monitor daily until pH is within 6.5 and 8.5
	Total Iron (µg/l)		1000	
<p><u>Associated Monitoring Requirements</u></p> <ol style="list-style-type: none"> 1. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection '<i>Monitoring and Sampling Manual</i>'. 2. Water and sediment samples must be representative of the general conditions of the water body or sediments 3. All determinations must employ analytical practical quantifications limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/ triggers/limits relevant to the particular water or sediment quality characteristic. 4. Monitoring must be undertaken during a release and at the frequency stated. 				
Agency interest: Waste				
Condition number	Condition			
2-W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.			

Schedule 2-1 – Maps/Plans

Figure 1. Location of works



END OF CONDITIONS FOR 9 MEISSNER STREET REDLAND BAY

Part 3

Location: Coochiemudlo Island, Redland Bay -
Channels adjacent to 1-21 Victoria Parade South, Lot 23 on SP144276
Channels adjacent to 51 Victoria Parade South, Lot 24 on SP199973

Relevant activity: 16-(1b) Dredging >10000t but <100000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
3-G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
3-G2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
3-G3	Any breach of a condition of this environmental authority must be reported to the administering authority within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.
3-G4	You must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
3-G5	You must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
3-G6	All records must be kept for a period of at least five years and provided to the administering authority upon request.
3-G7	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition;; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.
3-G8	An appropriately qualified person(s) must monitor, interpret and record all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
3-G9	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: <ol style="list-style-type: none"> a. Maintenance and construction dredging solely within the confines of the two (2) clearly defined 'allowable areas' (described as the barge ramp and jetty dredging areas) indicated in the submitted Queensland Transport and Main Roads drawing MBCM-TW-0213 Coochiemudlo Island Approach Channels - certified by Mr T Carter on 18 February 2013 (Schedule 3-1-Maps/Plans, Figure 1). b. Maximum depth of dredging works is not to exceed -2.3m LAT (Lowest Astronomical Tide)

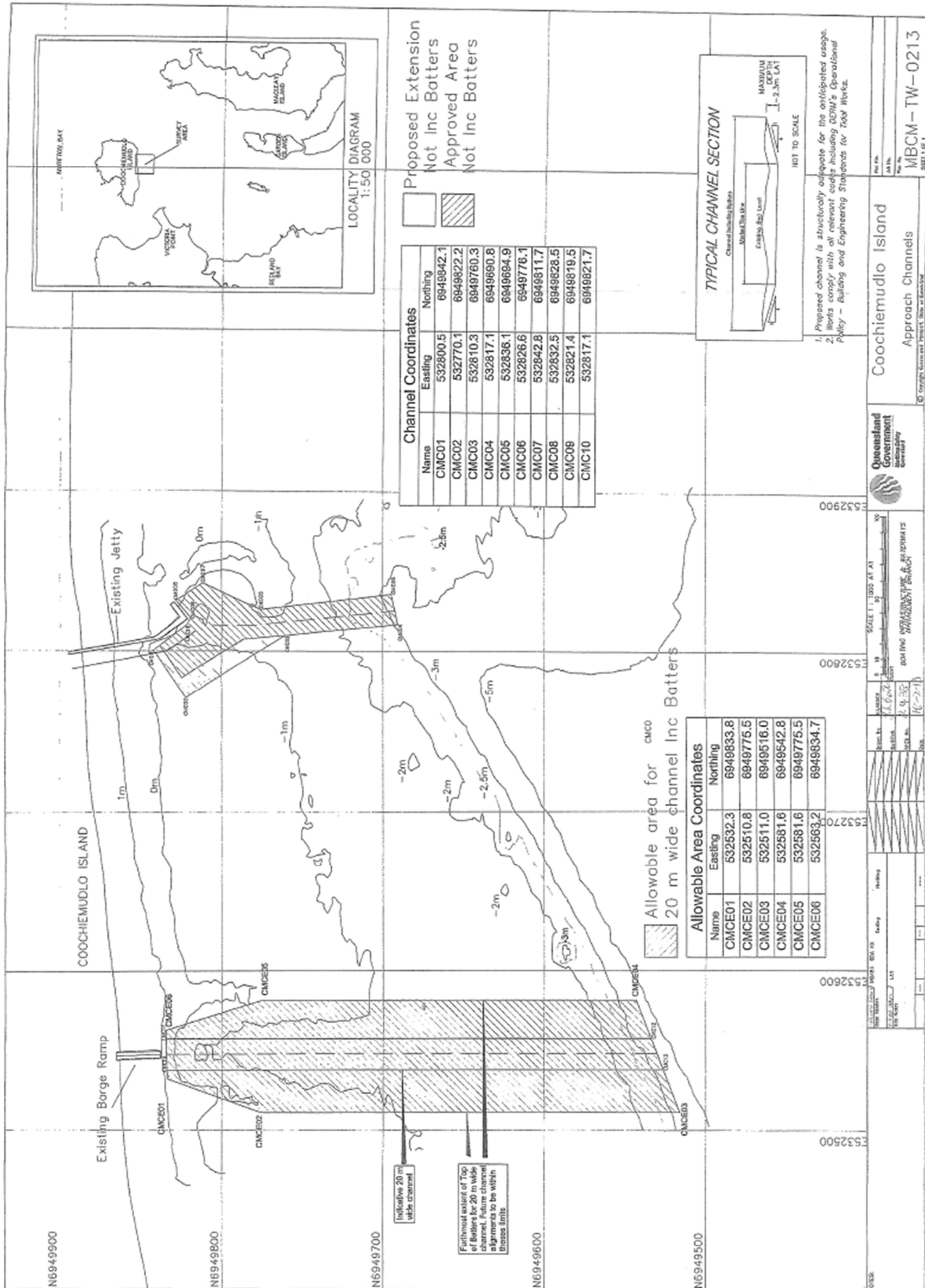
3-G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
3-G11	You must record the following details for all environmental complaints received: <ul style="list-style-type: none"> a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
Agency interest: Air	
Condition number	Condition
3-A1	Other than as permitted within this environmental authority, odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not be released to any nuisance sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
3-L1	Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Noise	
Condition number	Condition
3-N1	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table 3-1 Noise Limits and the associated requirements at any nuisance sensitive place or commercial place .
3-N2	When required by the administering authority , noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 3-1 Noise Limits, and the results notified within 14 days to the administering authority . Monitoring must include: <ul style="list-style-type: none"> - L_{Aeq, adj, T} - Background noise (Background) as L_{A 90, adj, T} - MaxL_{pA, T} - the level and frequency of occurrence of any impulsive or tonal noise - atmospheric conditions including wind speed and direction - effects due to extraneous factors such as traffic noise - recording of location, date and time of measurements.

Table 3 - 1 Noise Limits						
Noise level measured in dB(A)	Monday to Saturday			Sundays and public holidays		
	7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am
Noise measured at a nuisance sensitive place ¹						
L _{Aeq adj, T}	Background +5	Background +3	Background +0	Background +5	Background +3	Background +0
Max _{LpA, T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
Noise measured at a commercial place						
L _{Aeq adj, T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
Max _{LpA, T}	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10
Associated Monitoring Requirements						
1. All monitoring devices must be correctly calibrated and maintained						
2. Any monitoring must be in accordance with the most recent version of the administering authority's 'Noise Measurement Manual'						
3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.						
Agency interest: Water						
Condition number	Condition					
3-WT1	Other than as permitted within this environmental authority, contaminants must not be released from any dredging vessel/s, support craft or dredge-related machinery to any waters or the bed and banks of any waters .					
3-WT2	The only contaminants to be released to surface waters are sediments disturbed whilst conducting the dredging activity in accordance with Table 3-2 Surface water release limits and the additional requirements.					
3-WT3	In carrying out the activity , the release of contaminants (including any release caused by extraction of material from the bed of waters) must: <ul style="list-style-type: none"> a) Only occur within the permitted areas referred to and specified in condition 3-G9. b) Not be released in the form of a 'plume' which exceeds the turbidity criteria in Table 3-2 Surface water release limits. c) Not have any properties which are capable of causing environmental harm d) Not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter. 					
3-WT4	All reasonable and practicable measures must be undertaken to minimise the size of the sediment plume and concentration of suspended solids during the conduct of the dredging activity .					
3-WT5	Any dredging activities must be conducted using equipment that is registered and is equal to or superior to the following equipment in environmental performance: <ul style="list-style-type: none"> a. Trailing Suction Hopper Dredge that is equipped, at a minimum, with: <ul style="list-style-type: none"> i. below keel discharge of tail, waters via an anti-turbidity control valve, and ii. dredge heads capable of, and where appropriate, depth control and fitted with marine wildlife protection or fauna exclusion devices (e.g. turtle deflector, deflector plates, tickler chains or drag heads) prior to and during operation. 					

3-WT6	Where trailer suction hopper dredging is carried out, an effective turtle exclusion device must be fitted to the dredge head. Evidence that this device has been installed and used on the dredge for the entire period of the dredging activity must be provided to the administering authority on request.						
3-WT7	<p>The only areas permitted to receive dredge spoil under this environmental authority are those described as 'Mud Island Dredge Material Deposition Site' indicated within Part 6, schedule 1, section 24 of the Marine Parks (Moreton Bay) Zoning Plan 2008.</p> <p>Any material that is not able to be deposited at the 'Mud Island Dredge Material Deposition Site' must be deposited at either:</p> <ul style="list-style-type: none"> - An approved reclamation area; or - At a landfill site or other location lawfully able to receive this material. 						
Table 3 - 2 Surface Water Release Limits							
Dredging Location	Minimum Frequency	Monitoring location	Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information
As prescribed in condition 3-G9	Prescribed in Table 2 – Surface water release limits	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily * during dredging.	Turbidity (NTU)	N/A		BV ³ +10 NTU BV ³ +10%	<p>When the background value⁴ is less than 100 NTU, the level must not exceed 10 NTU above the background Value⁴.</p> <p>When the background value⁴ is more than 100 NTU, the level must not be greater than 10% than the background Value².</p>
			pH (pH units)	7.0		8.5	Measure background value ²
Additional requirements							
<ol style="list-style-type: none"> 1. Minimum frequency can be changed to weekly when 5 consecutive days of dredging produce no exceedances of turbidity as defined in Table 3-2 - Surface water release limits. If an exceedance occurs, daily monitoring must resume. 2. The down-current monitoring point(s) may be less than, but must not be more than 350m down-current of the dredging activity (provide Global Positioning System in eastings and northings for the up-current control site(s), dredging location(s), and downstream monitoring point(s) for each monitoring event related to this condition). 3. The BV or "background value" for a quality characteristic is the quality characteristic value as measured at an up current control (non-impacted) monitoring point situated in the receiving environment and: <ol style="list-style-type: none"> a. must be measured throughout the water column at 2m depth intervals where overall depth is >10m or 1/m depth intervals where the overall depth is <10m, with the deepest reading taken at least 1m above the substrate. The average of the readings is the BV; 							

	<ul style="list-style-type: none"> b. must be from 50-100m up-current from any location where sediment is disturbed during the regular conduct of the dredging activity; c. must be determined only at times when tidal flows are occurring, and d. must not be determined within the period of one hour either side of slack tide. <p>4. The determination of background value is only required when receptors sensitive to sediment plume – related impacts (such as seagrass meadows during growing season, or corals) occur within the predicted or observed Zone of Influence of the sediment plume.</p>
Agency interest: Waste	
Condition number	Condition
3-W1	<p>The only area permitted to receive dredging spoil under this environmental authority are those described as 'Mud island dredging Material deposition Site' indicated within Part 6, schedule 1, section 24 of the Marine Parks (Moreton Bay) Zoning Plan 2008.</p> <p>Any material that is not able to be deposited at the 'Mud Island dredging material deposition Site' must be deposited at either:</p> <ul style="list-style-type: none"> – An approved reclamation area; or – At a landfill site or other location lawfully able to receive this material.
3-W2	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Schedule 3-1 –Maps/Plans
Figure 1- Coochiemudlo Island Approach Channels



END OF CONDITIONS FOR COOCHIEMUDLO ISLAND, REDLAND BAY

Part 4

Location: Toondah Harbour and Fison Channel Cleveland QLD 4163 –
Adj to Lot 79 Plan SL7088 and Lot 20 Plan SP153278 and Lot 115 Plan SL9166

Location indicated in the submitted Queensland Transport and Main Roads drawing MBTH-TW-0612 (Sheet 1) *Toondah Harbor Dredging Plan* and MBTH-TW-0512 (Sheet 2 and 3) *Toondah Harbor Tidal Works Plan*

Relevant activity: 16-(1c) Dredging >100000t but <1000000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
4-G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
4- G2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
4-G3	Any breach of a condition of this environmental authority must be reported to the administering authority within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.
4-G4	You must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
4-G5	You must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
4-G6	All records must be kept for a period of at least five years and provided to the administering authority upon request.
4-G7	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.
4-G8	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
4-G9	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: <ol style="list-style-type: none"> a. the deepening and widening of the Toondah Harbour Swing Basin and Fison Channel must be undertaken solely within the confines of the defined 'allowable area' indicated in the submitted Queensland Transport and Main Roads drawing MBTH-TW-0612 (Sheet 1) <i>Toondah Harbor Dredging Plan</i> and MBTH-TW-0512 (Sheet 2 and 3) <i>Toondah Harbor Tidal Works Plan</i> (Schedule 4-1 Maps/Plans Figures 1,2 and 3),

	b. the maximum depth of dredging works is not to exceed -2.5m LAT (Lowest Astronomical Tide).
4-G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
4-G11	You must record the following details for all environmental complaints received: <ul style="list-style-type: none"> a. date and time complaint was received b. name and contact details of the complainant c. nature of the complaint d. investigations undertaken e. conclusions formed f. actions taken.
Agency interest: Air	
Condition number	Condition
4-A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
4-L1	Treatment and management of acid sulphate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Noise	
Condition number	Condition
4-N2	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table 4-1 Noise Limits and the associated requirements at any nuisance sensitive place or commercial place .
4-N3	When required by the administering authority , noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 4-1 Noise limits, and the results notified within 14 days to the administering authority . Monitoring must include: <ul style="list-style-type: none"> - $L_{Aeq, adj, T}$ - Background noise (Background) as $L_{A 90, adj, T}$ - $Max_{LpA, T}$ - the level and frequency of occurrence of any impulsive or tonal noise - atmospheric conditions including wind speed and direction - effects due to extraneous factors such as traffic noise - recording of location, date and time of measurements.

Table 4 - 1 Noise limits						
Noise level measured in dB(A)	Monday to Saturday			Sundays and public holidays		
	7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am
L_{Aeq} adj, T	Noise measured at a nuisance sensitive place ¹					
Max_{LpA}, T	Background +5	Background +3	Background +0	Background +5	Background +3	Background +0
	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
L_{Aeq} adj, T	Noise measured at a commercial place					
Max_{LpA}, T	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10
<u>Associated monitoring Requirements</u>						
<ol style="list-style-type: none"> 1. All monitoring devices must be correctly calibrated and maintained. 2. Any monitoring must be in accordance with the most recent version of the administering authority's <i>Noise measurement manual</i>. <p>Any monitoring of noise emissions from the activity must be undertaken when the activity is on operation.</p>						
Agency interest: Water						
Condition number	Condition					
4-WT1	Other than as permitted within this environmental authority, contaminants must not be released to any waters .					
4-WT2	The only contaminants to be released to surface waters are sediments disturbed whilst conducting the dredging activity in accordance with Table 4-2 Surface water release limits and the additional requirements.					
4-WT3	<p>In carrying out the activity, the release of contaminants (including any release caused by extraction of material from the bed of waters) must:</p> <ol style="list-style-type: none"> a. only occur within the permitted areas referred to and specified in condition 4-G9, not be released in the form of a 'plume' which exceeds the turbidity criteria in Table 4-2 <i>Surface water release limits</i> and the additional requirements, b. not have any properties which are capable of causing environmental harm, c. not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter. 					
4-WT4	All reasonable and practicable measures must be undertaken to minimise the size of the sediment plume and concentration of suspended solids during the conduct of the dredging activity .					
4-WT5	<p>Any dredging activities must be conducted using equipment that is registered and is equal to or superior to the following equipment in environmental performance:</p> <ol style="list-style-type: none"> a. Trailing Suction Hopper Dredge that is equipped, at a minimum, with: <ol style="list-style-type: none"> i. below keel discharge of tail waters via an anti-turbidity control valve, and ii. dredge heads capable of, and where appropriate, depth control and fitted with marine wildlife protection or fauna exclusion devices (e.g. turtle deflector, deflector plates, tickler chains or drag heads) prior to and during operation. 					

4-WT6	Where Trailer Suction Hopper dredging is carried out, an effective turtle exclusion device must be fitted to the dredge head. Evidence that this device has been installed and used on the dredge for the entire period of the dredging activity must be provided to the administering authority on request.						
Table 4 - 2 Surface water release limits							
Dredging Location	Minimum Frequency	Monitoring location	Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information
As prescribed in condition 4-G9	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily * during dredging.	Down current monitoring point ²	Turbidity (NTU)	N/A		BV ³ +10 NTU BV ³ +10%	When the background Value ³ is less than 100 NTU, the level must not exceed 10 NTU above the background value ¹ . When the background Value ³ is more than 100 NTU, the level must not be greater than 10% than the background value ³ .
			pH (pH units)	7.0		8.5	Measure Background value ³
Additional requirements							
<ol style="list-style-type: none"> 1. Minimum frequency can be changed to weekly when 5 consecutive days of dredging produce no exceedances of turbidity as defined Table 4-1 Surface water release limits. If an exceedance occurs, daily monitoring must resume. 2. The down-current monitoring point(s) may be less than, but must not be more than 350m down-current of the dredging activity (provide Global Positioning System in eastings and northings for the up-current control site(s), dredging location(s), and downstream monitoring point(s) for each monitoring event related to this condition). 3. The BV or "background value" for a quality characteristic is the quality characteristic value as measured at an up-current control (non-impacted) monitoring point situated in the receiving environment and: <ol style="list-style-type: none"> 4. must be measured throughout the water column at 2m depth intervals where overall depth is >10m. or 1m depth intervals where the overall depth is <10m, with the deepest reading taken at least 1m above the substrate - the average of the readings is the BV; 5. must be from 50-100m up-current from any location where sediment is disturbed during the regular conduct of the dredging activity; 6. must be determined only at times when tidal flows are occurring, and must not be determined within the period of one hour either side of slack tide. 7. All monitoring must be conducted in accordance with methods prescribed in the latest edition of the Monitoring and Sampling Manual. 8. All monitoring must be carried out on samples that are representative of the effects of the dredging activity. 9. All monitoring devices must be effectively calibrated and maintained. 							

Agency interest: Waste	
Condition number	Condition
4-W1	<p>The only areas permitted to receive dredge spoil under this environmental authority are those described as a '<i>Material disposal area - MDA01 - Mud Island</i>' indicated within Part 6, schedule 2, section 24 of the <i>Marine Parks (Moreton Bay) Zoning Plan 2008</i>.</p> <p>Any material that is not able to be deposited at the '<i>Material disposal area - MDA01 Mud Island</i>' must be deposited at either:</p> <ul style="list-style-type: none"> a. an approved reclamation area; or b. at a landfill site or other location lawfully able to receive this material.
4-W2	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Schedule 4-1- Maps/Plans
Figure 1 - MBTH-TW-0612 (Sheet 1) Toondah Harbor Dredging Plan.

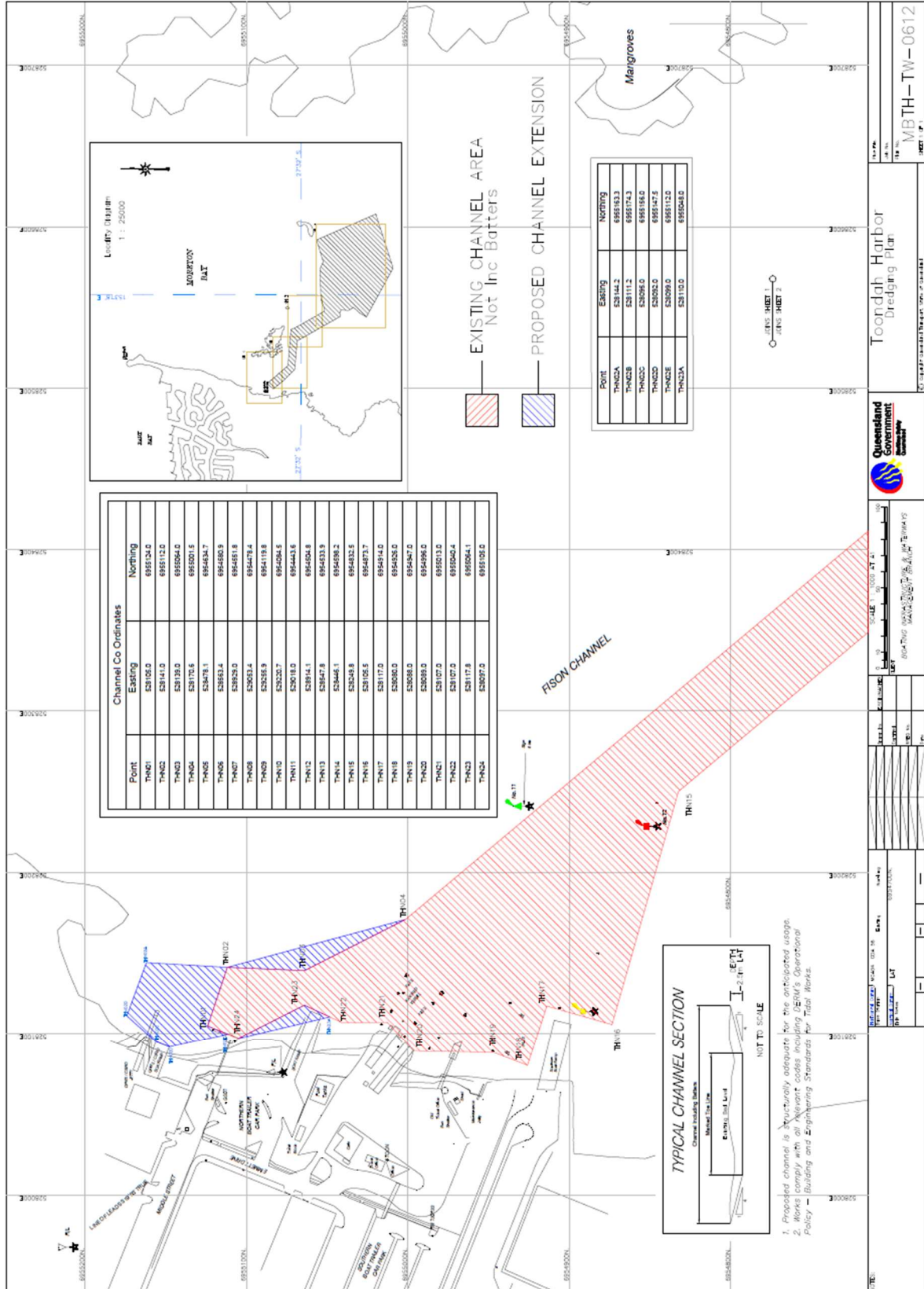


Figure 2 - MBTH-TW-0512 (Sheet 2) Toondah Harbor Tidal Works Plan.

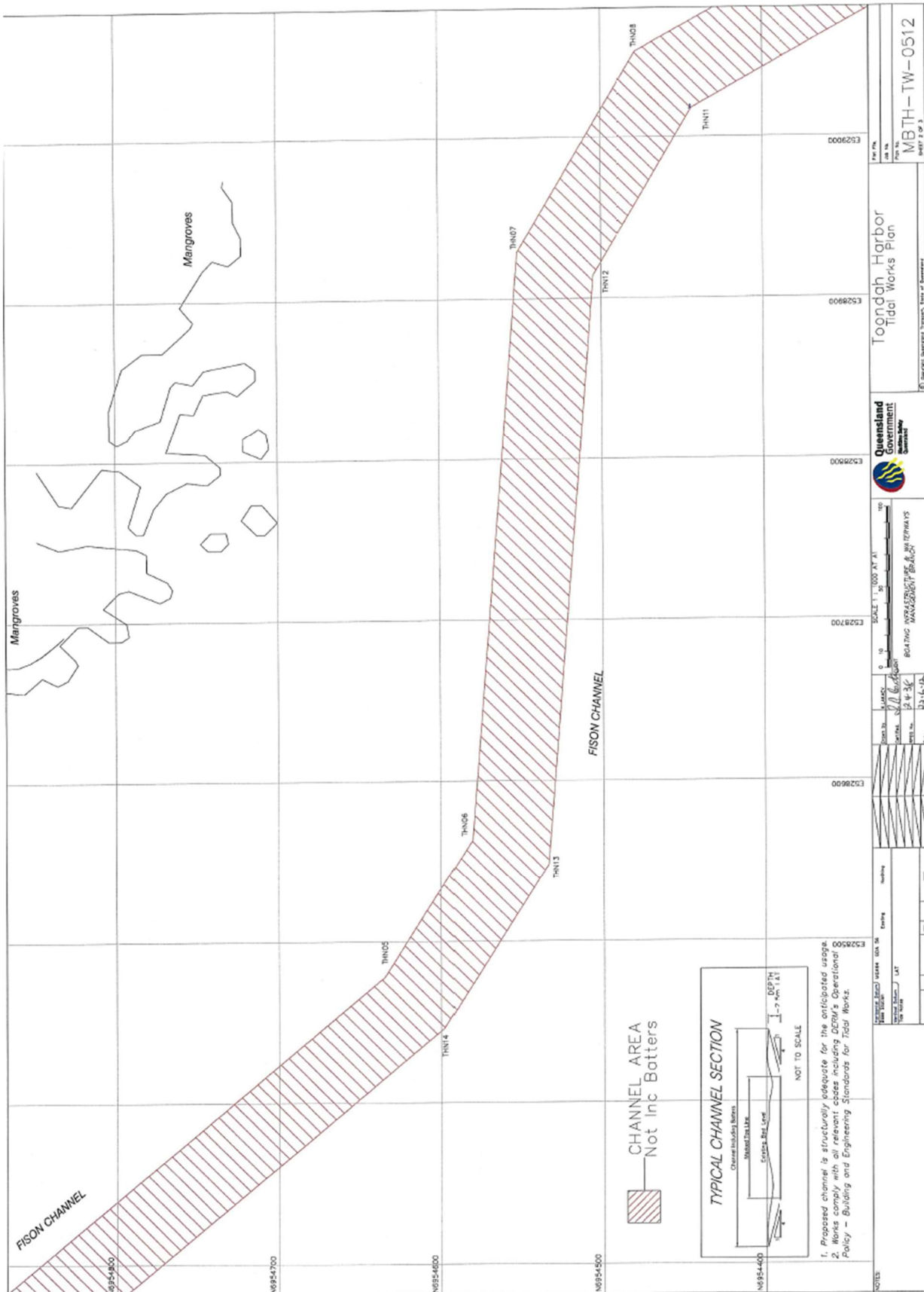
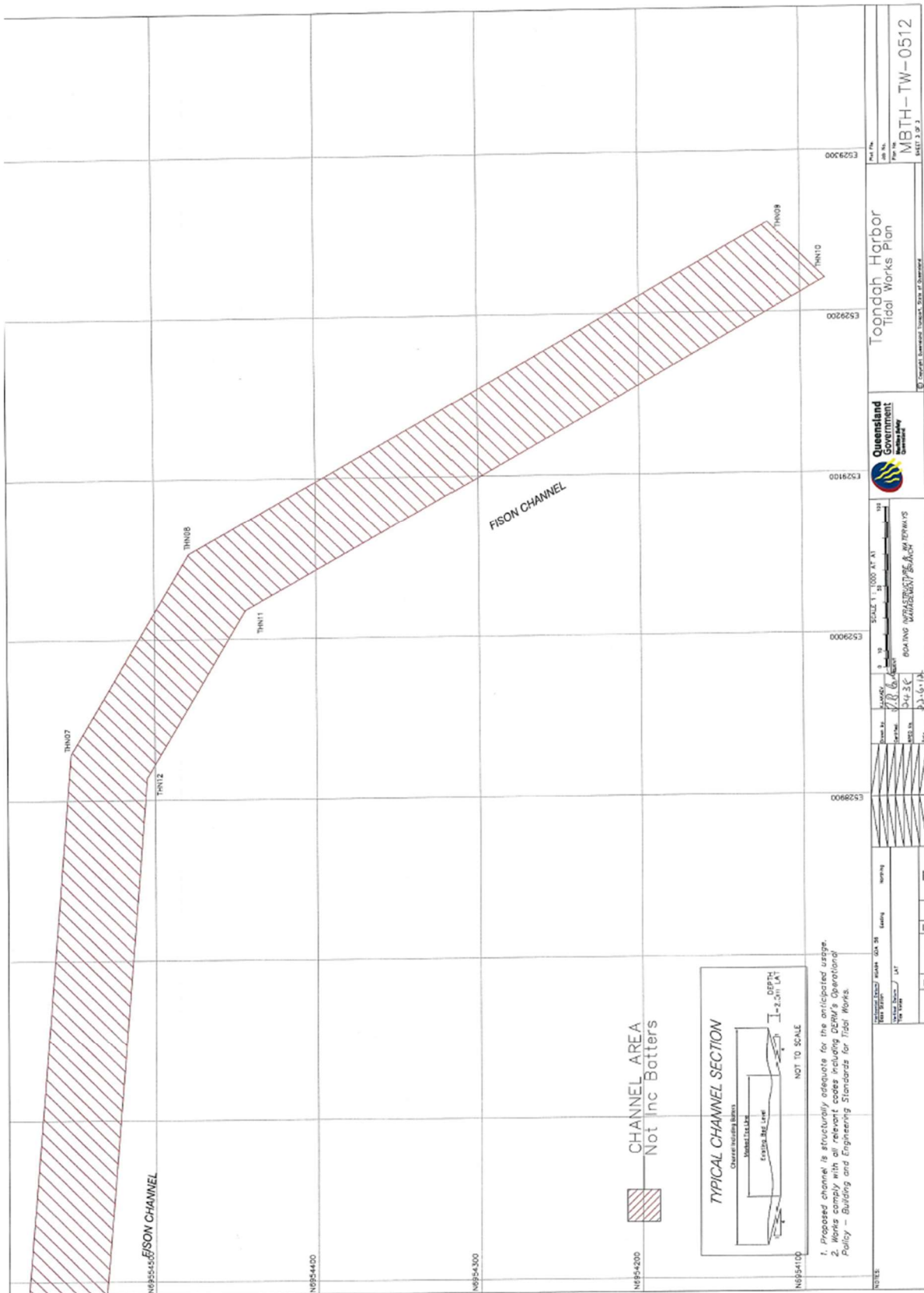


Figure 3 - MBTH-TW-0512 (Sheet 3) Toondah Harbor Tidal Works Plan.



END OF CONDITIONS FOR TOONDAH HARBOUR AND FISON CHANNEL CLEVELAND

Part 5

Location: Victoria Point Navigational Channel –
Adj Lot 136 Plan SP127969
USL being tidal waters, adjacent to both Lot 136 on SP127969 and located off Victoria Point. This location is currently the approach channel for the Victoria Point to Coochiemudlo Island passenger ferry service.

Relevant activity: 16-(1b) Dredging >10000t but <100000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
5-G1	The administering authority must be advised in writing at least five (5) business days prior to the date of commencement of capital or maintenance dredging campaigns.
5-G2	The administering authority must be advised in writing at least ten (10) following completion of the capital or maintenance dredging campaigns.
5-G3	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: <ul style="list-style-type: none"> a. Capital and maintenance dredging works solely within the confines of the clearly defined 'allowable area' (described as the 'redefined channel limits') indicated in the submitted Queensland Transport and Main Roads drawing VP-TW-O01 <i>Victoria Point Redefined Channel Limits - certified by Mr T Carter on 1 February 2012 (Schedule 5-1-Maps/Plans, Figure 1)</i>. b. Maximum depth of dredging works is not to exceed -2.3m LAT (Lowest Astronomical Tide)
5-G4	All reasonable and practical measures must be taken to minimise the likelihood of environmental harm being caused.
5-G5	Any breach of a condition of this environmental authority must be reported to the administering authority within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.
5-G6	All information and records that are required by the conditions of this environmental authority must be kept for a period of at least five (5) years.

G7. An **appropriately qualified person(s)** must monitor, interpret and record all parameters that are required to be monitored.

G8. If **you** become aware of any adverse impact on an **environmental value** **you** must notify the **administering authority** in writing of the full details of the adverse impact within 24 hours of becoming aware of the impact.

G9. For any nuisance complaints received **you** must:

- a) keep record of the complaint and any investigations or actions taken in relation to the complaint.
- b) have an **appropriately qualified person** investigate the complaint to determine if **environmental nuisance** has been caused.
- c) Where **environmental nuisance** is or has been caused by the **activity**, undertake actions necessary to rectify the nuisance issue.

Agency Interest: Air

A1. Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not be released to any **nuisance sensitive place** or **commercial place**.

Agency Interest: Land

L1. Contaminants must not be released to land.

Agency Interest: Noise

N1. Noise from the **activity** must not occur from blasting or include **substantial low frequency noise** components and must not exceed the levels identified in Table 1 – Noise limits and the associated requirements at any nuisance **sensitive place** or **commercial place**.

Table 1 - Noise limits

Noise level measured in dB(A)	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
<i>Noise measured at a nuisance sensitive place¹</i>						
L _{Aeq} adj, T	Background + 5	Background + 3	Background + 0	Background + 5	Background + 3	Background + 0
MaxL _{pA} , T	Background + 10	Background + 8	Background + 5	Background + 10	Background + 8	Background + 5
<i>Noise measured at commercial place</i>						
L _{Aeq} adj, T	Background + 10	Background + 8	Background + 5	Background + 10	Background + 8	Background + 5
MaxL _{pA} , T	Background + 15	Background + 13	Background + 10	Background + 15	Background + 13	Background + 10

Agency Interest: Water

Table 1 – Monitoring

Parameter	Measurement (units)	Minimum Frequency	Monitoring location
Water	Prescribed in Table 2 – Surface Water Release Limits	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily * during dredging.	Down current monitoring point ¹

Additional Requirements

- * Minimum frequency can be changed to weekly when 5 consecutive days of dredging produce no exceedences of turbidity as defined in Table 2 – Surface Water Release Limits. If an exceedence occurs, daily monitoring must resume.
- 1. The down-current monitoring point(s) may be less than, but must not be more than 300m down-current of the dredging activity (provide Global Positioning System in eastings and northings for the up-current control site(s), dredging location(s), and downstream monitoring point(s) for each monitoring event related to this condition).
- 2. All monitoring must be conducted in accordance with methods prescribed in the latest edition of the *Monitoring and Sampling Manual (DERM 2009)*.
- 3. All monitoring must be carried out on samples that are representative of the effects of the dredging activity.
- 4. All monitoring devices must be effectively calibrated and maintained.

WT1. Other than as permitted within this environmental authority, contaminants must not be released from any dredging vessel/s, support craft or dredge-related machinery to any waters or the bed and banks of any waters.

WT2. The only contaminants to be released to surface waters are sediments disturbed whilst conducting the dredging activity in accordance with Table 2 – Surface Water Release Limits and the additional requirements.

Table 2 – Surface Water Release Limits

Dredging Location	Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information
Locations where sediment is disturbed during the regular conduct of the dredging activity. As indicated in drawing VP-TW-001 Victoria Point Redefined Channel Limits	Turbidity (NTU)	N/A		BV ³ +10 NTU	When the background value ¹ is less than 100 NTU, the level must not exceed 10 NTU above the background value ¹ .
		N/A		BV ³ +10%	When the background value ¹ is more than 100 NTU, the level must not be greater than 10% than the background value ¹ .
	pH (pH units)	7.0		8.5	Measure background value ¹

Additional requirements

1. The BV or "background value" for a quality characteristic is the quality characteristic value as measured at an up-current control (non-impacted) monitoring point situated in the receiving environment and:
 - a. must be measured throughout the water column at 2m depth intervals where overall depth is >10m, or 1m depth intervals where the overall depth is ≤10m, with the deepest reading taken at least 1m above the substrate – the average of the readings is the BV;
 - b. must be from 50-100m up-current from any location where sediment is disturbed during the regular conduct of the dredging activity;
 - c. must be determined only at times when tidal flows are occurring, and
 - d. must not be determined within the period of one hour either side of slack tide.

Only required when receptors sensitive to sediment plume-related impacts (such as seagrass meadows during growing season, or corals) occur within the predicted or observed Zone of Influence of the sediment plume

WT3. In carrying out the ERA, the release of contaminants (including any release caused by extraction of material from the bed of waters) must:

- Only occur within the permitted areas referred to and **specified in condition G3**, not be released in the form of a 'plume' which exceeds the turbidity criteria in Table 2 – Surface Water Release Limits.
- Not have any properties which are capable of causing environmental harm
- Not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter

WT4. All reasonable and practicable measures must be undertaken to minimise the size of the sediment plume and concentration of suspended solids during the conduct of the dredging activity.

WT5. Any dredging activities must be conducted using equipment that is registered and is equal to or superior to the following equipment in environmental performance:

- (a) Trailing Suction Hopper Dredge that is equipped, at a minimum, with:

- (i) below keel discharge of tail waters via an anti-turbidity control valve, and
- (ii) dredge heads capable of, and where appropriate, depth control and fitted with marine wildlife protection or fauna exclusion devices (e.g. turtle deflector, deflector plates, tickler chains or drag heads) prior to and during operation.

WT6. Where trailer suction hopper dredging is carried out, an effective turtle exclusion device must be fitted to the dredge head. Evidence that this device has been installed and used on the dredge for the entire period of the dredging activity must be provided to the administering authority on request.

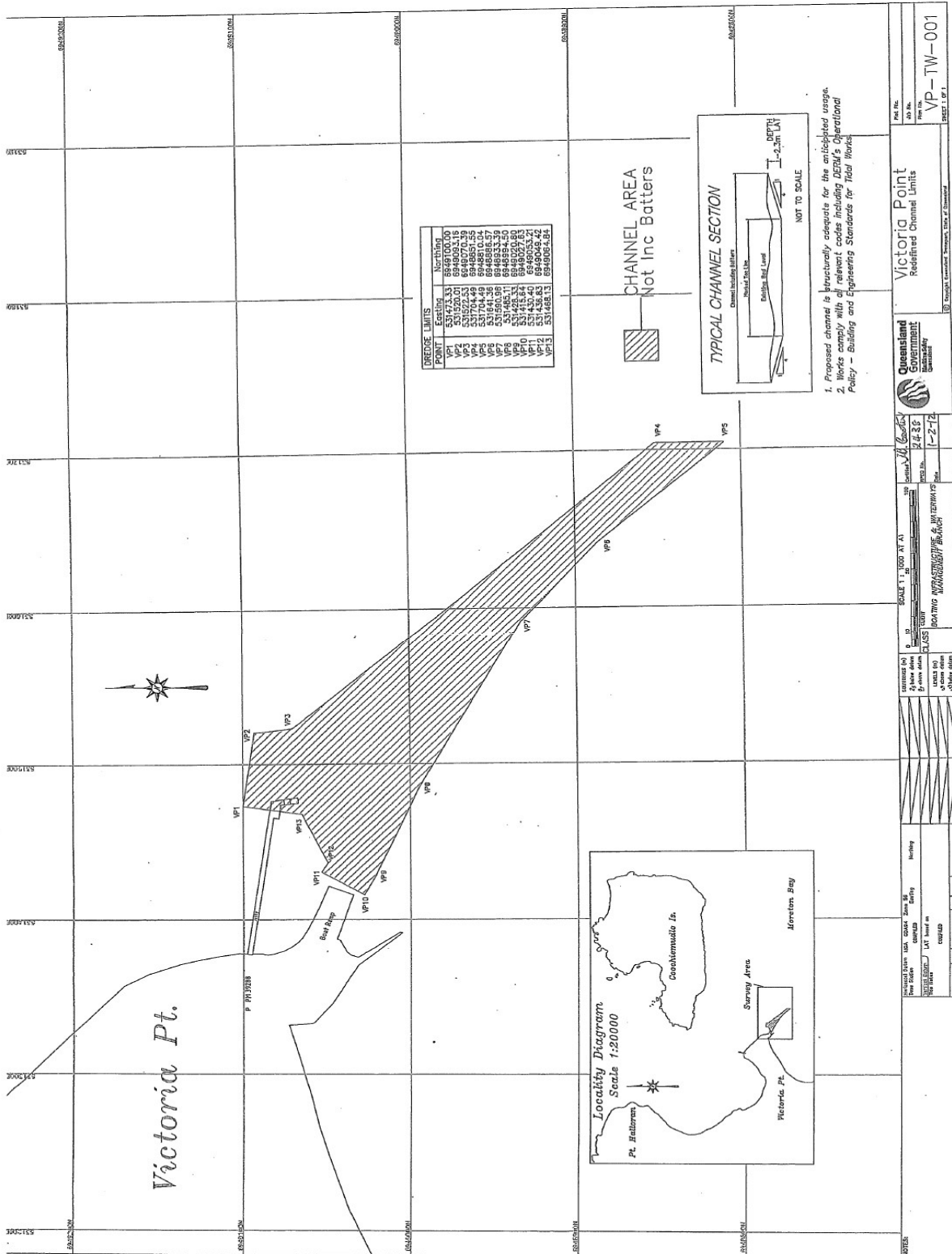
WT7. The only areas permitted to receive dredge spoil under this environmental authority are those described as 'Mud Island Dredge Material Deposition Site' indicated within Part 6, schedule 1, section 24 of the Marine Parks (Moreton Bay) Zoning Plan 2008.

Any material that is not able to be deposited at the 'Mud Island Dredge Material Deposition Site' must be deposited at either:

- An approved reclamation area; or
- At a landfill site or other location lawfully able to receive this material.

Schedule 5-1 – Maps/Plans

Figure 1 Plan No: VP-TW-001, Victoria Point 'Redefined Channel Limits', Maritime Safety Queensland



END OF CONDITIONS FOR VICTORIA POINT NAVIGATIONAL CHANNEL

Part 6

Location: Aquatic Paradise Canals - Wood Canal, John Goleby Canal, Gernrich Canal, Clayson Canal, Woodgate Canal, Laidlaw Canal.

Wood Channel - Entrance to Aquatic Paradise canals in Waterloo Bay

Relevant activity: 16-(1c) Dredging >100000t but <1000000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Dredging must only take place in the areas specified on the following drawings prepared by the Port of Brisbane Corporation:-

- 113760 - 1, Aquatic Paradise Investigation Survey dated 12/04/2006 – 12/05/2006;
- 113760 - 2, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006;
- 113760 - 3, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006;
- 113760 - 4, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006.

The dredged material must be placed in the area specified on the following drawing prepared by the Port of Brisbane Corporation:

- 118604 Dredge-Material Placement Area No. 3, Mud Island, Hydrographic Survey dated 7/06/2007 - 14/06/2007.

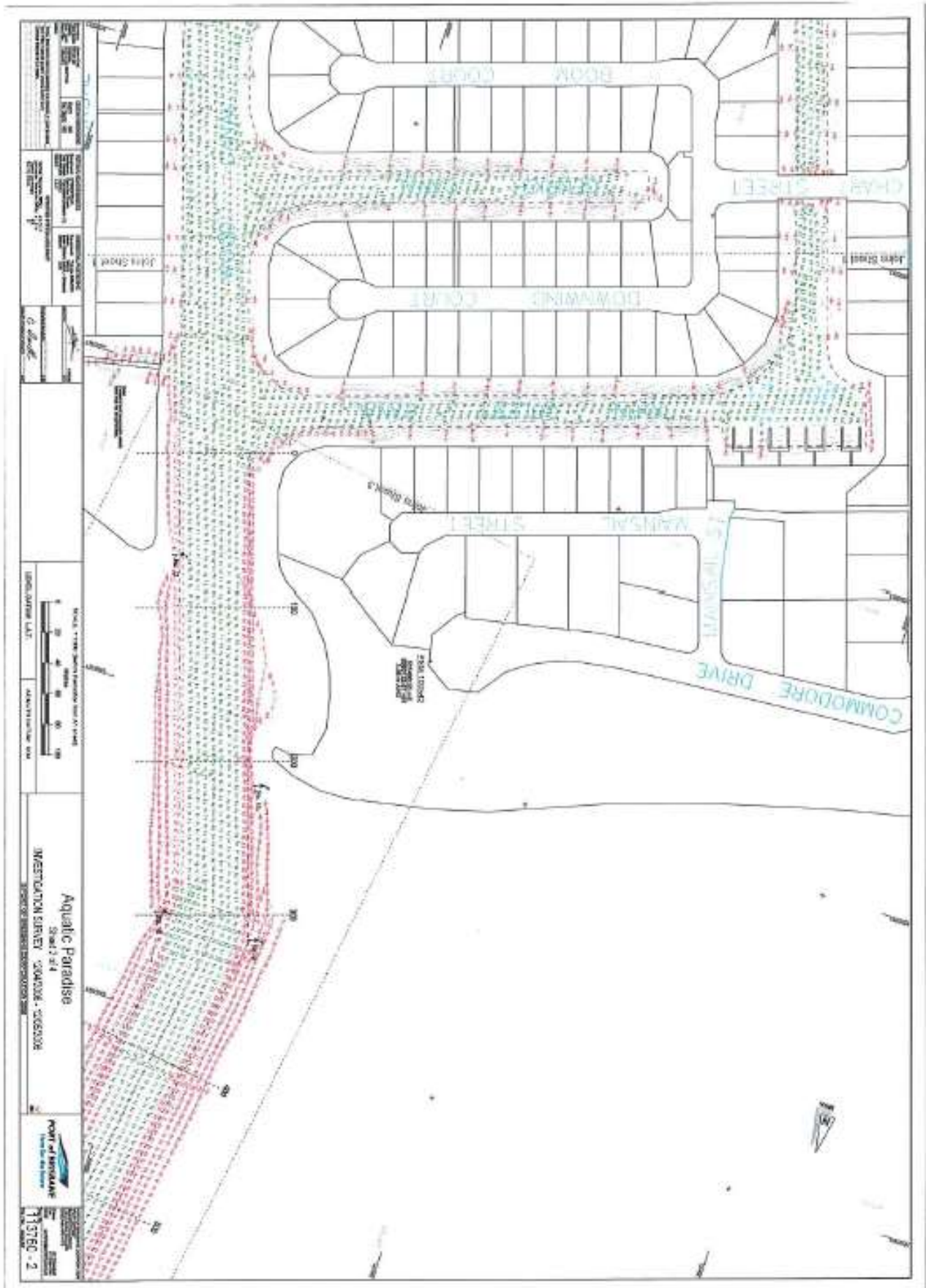
Agency interest: General	
Condition number	Condition
6-G1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
6-G2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
6-G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
6-G4	The registered operator of an ERA to which this approval relates must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
6-G5	The registered operator of an ERA to which this approval relates must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
6-G6	All records must be kept for a period of at least five years and provided to the administering authority upon request.
6-G7	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition;

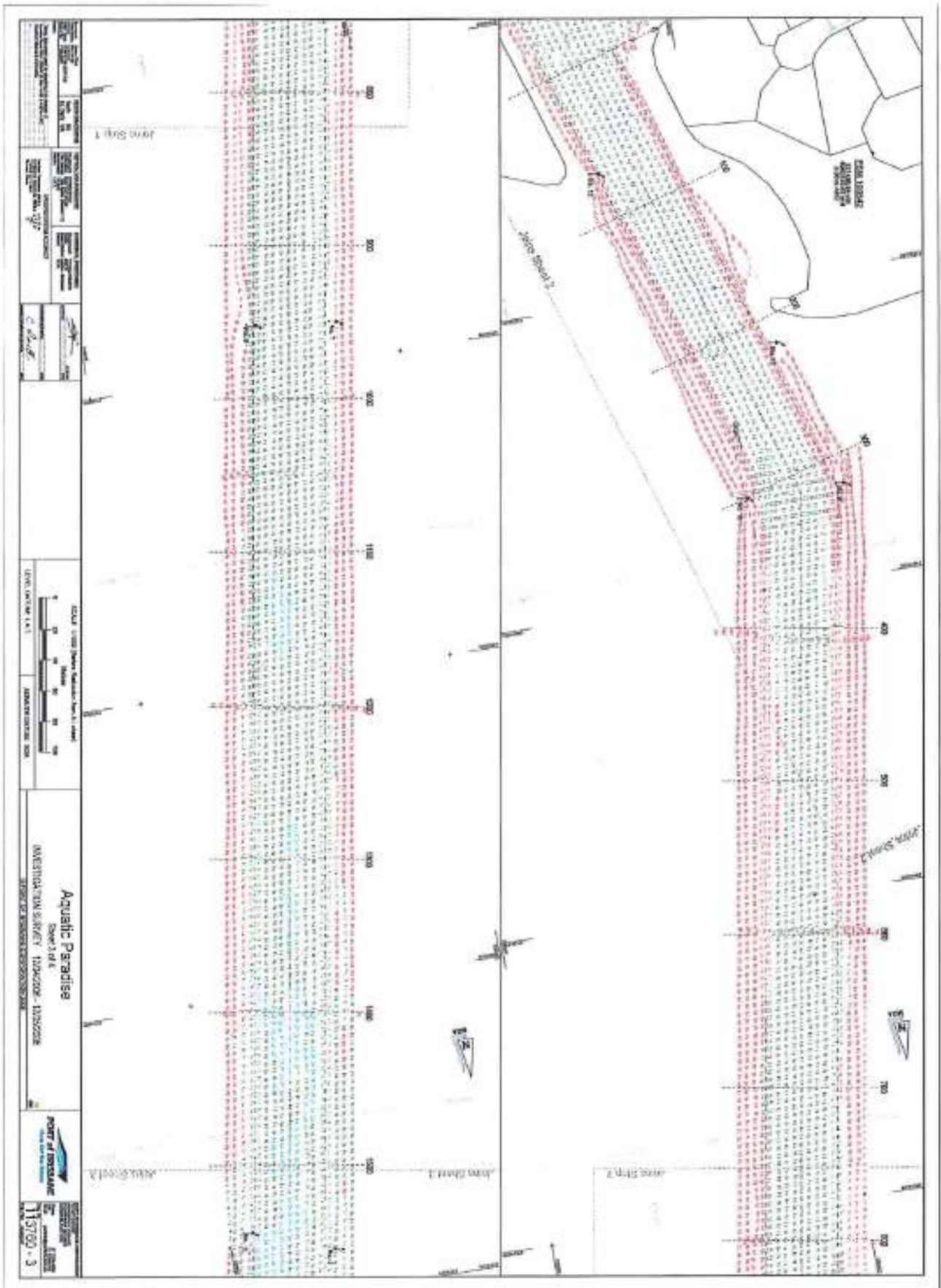
	<p>4. ensure plant, equipment and measures are operated in a proper and effective manner;</p> <p>5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and</p> <p>6. ensure that reviews of environmental performance are undertaken at least annually.</p>
6-G8	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
6-G9	<p>Dredging must only take place in the areas specified on the following drawings prepared by the Port of Brisbane Corporation :-</p> <ul style="list-style-type: none"> - 113760 - 1, Aquatic Paradise Investigation Survey dated 12/04/2006 – 12/5/2006; - 113760 - 2, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006; - 113760 - 3, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006; - 113760 - 4, Aquatic Paradise Investigation Survey dated 12/04/2006 - 12/05/2006.
6-G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
6-G11	<p>You must record the following details for all environmental complaints received:</p> <ul style="list-style-type: none"> a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
Agency interest: Air	
Condition number	Condition
6-A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
6-L1	Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Noise	
Condition number	Condition
6-N1	All noise from activities must not exceed the levels specified in Table 6-1 Noise limits at any nuisance sensitive or commercial place .
6-N2	<p>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority.</p> <p>Monitoring must include:</p> <ul style="list-style-type: none"> - L_A 10, adj, 15 mins; - L_A 1, adj, 15 mins;

	<ul style="list-style-type: none"> - the level and frequency of occurrence of impulsive or tonal noise; - atmospheric conditions including wind speed and direction; - effects due to extraneous factors such as traffic noise; and - recording of location, date and time of measurements. 																																																							
	<p>Table 6 - 1 Noise limits at any noise sensitive or commercial place.</p> <table border="1"> <thead> <tr> <th rowspan="2">Noise level dB(A) measure as</th> <th colspan="3">Monday to Saturday</th> <th colspan="3">Sundays and Public Holidays</th> </tr> <tr> <th>7.00am – 6.00pm</th> <th>6.00pm – 10pm</th> <th>10pm – 7.00am</th> <th>9.00am – 6pm</th> <th>6.00pm – 10pm</th> <th>10pm – 9.00am</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="6">Noise measured at a 'Noise sensitive place'</td> </tr> <tr> <td>L A10, adj, 15 mins</td> <td>Bg + 5dB(A)</td> <td>Bg + 5dB(A)</td> <td>Not audible</td> <td>Bg + 5dB(A)</td> <td>Bg + 5dB(A)</td> <td>Not audible</td> </tr> <tr> <td>L A1, adj, 15 mins</td> <td>Bg + 10dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 5dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 5dB(A)</td> </tr> <tr> <td></td> <td colspan="6">Noise measured at a 'Commercial place'</td> </tr> <tr> <td>L A10, adj, 15 mins</td> <td>Bg + 10dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 5dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 5dB(A)</td> </tr> <tr> <td>L A1, adj, 15 mins</td> <td>Bg + 15dB(A)</td> <td>Bg + 15dB(A)</td> <td>Bg + 10dB(A)</td> <td>Bg + 15dB(A)</td> <td>Bg + 15dB(A)</td> <td>Bg + 10dB(A)</td> </tr> </tbody> </table> <p>Associated Monitoring Requirements</p> <ol style="list-style-type: none"> 1. All monitoring devices must be correctly calibrated and maintained 2. Any monitoring must be in accordance with the most recent version of the administering authority's '<i>Noise measurement manual</i>'. 3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation. 	Noise level dB(A) measure as	Monday to Saturday			Sundays and Public Holidays			7.00am – 6.00pm	6.00pm – 10pm	10pm – 7.00am	9.00am – 6pm	6.00pm – 10pm	10pm – 9.00am		Noise measured at a 'Noise sensitive place'						L A10, adj, 15 mins	Bg + 5dB(A)	Bg + 5dB(A)	Not audible	Bg + 5dB(A)	Bg + 5dB(A)	Not audible	L A1, adj, 15 mins	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)		Noise measured at a 'Commercial place'						L A10, adj, 15 mins	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)	L A1, adj, 15 mins	Bg + 15dB(A)	Bg + 15dB(A)	Bg + 10dB(A)	Bg + 15dB(A)	Bg + 15dB(A)	Bg + 10dB(A)
Noise level dB(A) measure as	Monday to Saturday			Sundays and Public Holidays																																																				
	7.00am – 6.00pm	6.00pm – 10pm	10pm – 7.00am	9.00am – 6pm	6.00pm – 10pm	10pm – 9.00am																																																		
	Noise measured at a 'Noise sensitive place'																																																							
L A10, adj, 15 mins	Bg + 5dB(A)	Bg + 5dB(A)	Not audible	Bg + 5dB(A)	Bg + 5dB(A)	Not audible																																																		
L A1, adj, 15 mins	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)																																																		
	Noise measured at a 'Commercial place'																																																							
L A10, adj, 15 mins	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)	Bg + 10dB(A)	Bg + 10dB(A)	Bg + 5dB(A)																																																		
L A1, adj, 15 mins	Bg + 15dB(A)	Bg + 15dB(A)	Bg + 10dB(A)	Bg + 15dB(A)	Bg + 15dB(A)	Bg + 10dB(A)																																																		
Agency interest: Water																																																								
Condition number	Condition																																																							
6-WT1	<p>The environmentally relevant activity must be carried out in such a manner that the release of contaminants (including any release caused by the extraction of the materials from the bed of waters, and placement and removal of bunds or berms in the waters) must:</p> <ol style="list-style-type: none"> a. only occur within the permitted dredge area and disposal area as specified in conditions 6-W1; b. not have any properties nor contain any organisms or other contaminants which are capable of causing environmental harm; c. not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter; and d. minimise the concentration of suspended solids released during the loading of the vessel(s). Such measures may include but not necessarily be limited to the installation of filter screens, hay bales and/or other devices which act to physically screen solids from the release at the release points. 																																																							
6-WT2	Notwithstanding condition 6-WT1 above, the dredging of the identified waterways must not, at any down-current point, cause any quality characteristic to exceed the corresponding limit for the quality characteristic specified in Table 6-2 Contaminant Release Limits to water.																																																							
6-WT3	Monitoring must be undertaken, for the quality characteristics and at the frequency specified in Table 6-2 Contaminant Release Limits to water.																																																							

6-WT4	Any dredging activity that necessarily disturbs or is likely to disturb any aquatic fauna, marine plants and/or mangroves must be carried out in such a manner so that any disturbance resulting from the conducting of dredging activity is prevented or minimised to the greatest practicable extent.					
Table 6 - 2 Contaminant release limits to water						
Dredging Location		Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information
Locations where sediment is disturbed during the regular conduct of the dredging activity as indicated in drawing 113760 (sheet 1,2,3 and 4) <i>Aquatic Paradise investigation survey dated 12/4/2006 – 12/5/2006</i>		Turbidity (NTU)	N/A		BV ¹ +10 NTU	When the background value ¹ is less than 100 NTU the level must not exceed 10 NTU above the background value ¹ .
		pH (pH units)	6.5		BV ¹ +10%	When the background value ¹ is less than 100 NTU the level must not be greater than 10% than the background value ¹ .
¹ The BV or " Background value " for a quality characteristic is the quality characteristic value as measured at an up-current control (non-impacted) monitoring point situated in the receiving environment and:						
<ol style="list-style-type: none"> must be measured throughout the water column at 2m depth intervals where overall depth is >10m. or 1m depth intervals where the overall depth is <10m, with the deepest reading taken at least 1m above the substrate – the average of the readings is the BV; must be from 50-100m up-current from any location where sediment is disturbed during the regular conduct of the dredging activity; must be determined only at times when tidal flows are occurring, and must not be determined within the period of one hour either side of slack tide. 						
Associated Monitoring Requirements						
<ol style="list-style-type: none"> Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection '<i>Monitoring and Sampling Manual</i>'. Water and sediment samples must be representative of the general conditions of the water body or sediments All determinations must employ analytical practical quantifications limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/ triggers/limits relevant to the particular water or sediment quality characteristic. Monitoring must be undertaken during a release and at the frequency stated. All monitoring devices must be effectively calibrated and maintained. 						
Table 6 - 2a Monitoring Frequency						
Parameter	Measurement	Minimum Frequency		Monitoring Location		
Water	Prescribed in Table 8-2 Contaminant release limits to water	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily* during dredging.		Down Current monitoring point ¹		

	<p>* Minimum frequency can be changed to weekly when 5 consecutive days of dredging produce no exceedances of turbidity as defined in Table 6-2 Contaminant release limits to water. If an exceedance occurs, daily monitoring must resume.</p> <p>¹ The down- current monitoring point(s) may be less than, but must not be more than 350m down – current of the dredging activity (provide Global Positioning System is eastings and northings for the up-current control site(s), dredging location(s), and downstream monitoring point(s) for each monitoring event related to this condition).</p> <p><u>Additional Requirements</u></p> <ol style="list-style-type: none"> 1. All monitoring must be carried out on samples that are representative of the effects of the dredging activity. 2. All monitoring devices must be effectively calibrated and maintained.
Agency interest: Waste	
Condition number	Condition
6-W1	The dredged material must be placed in the area specified on the following drawing prepared by the Port of Brisbane Corporation: <ul style="list-style-type: none"> – 118604 Dredge-Material Placement Area No. 3, Mud Island, Hydrographic Survey dated 7/06/2007 - 1410612007.
6-W2	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.





Part 7

Location: German Church Road REDLAND BAY-
Lot 276 Plan M332687

Relevant activity: 16-(2a) EXTRACTIVE >5000T BUT <100000T YR

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
7-G1	All records must be kept for a period of at least five years and provided to the administering authority upon request.
7-G2	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
7-G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
7-G4	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
7-G5	All analyses required under this environmental authority must be carried out by a laboratory that has NATA certification, or an equivalent certification, for such analyses.
7-G6	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided to the administering authority , or nominated delegate , within the required timeframe and in the specified format upon request.
7-G7	The activity must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.
7-G8	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
7-G9	An annual monitoring report must be prepared and submitted to the administering authority by 30 November each year, for the preceding financial year.
7-G10	You must record the following details for all environmental complaints received: <ol style="list-style-type: none"> a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken

	e) conclusions formed f) actions taken.
Agency interest: Air	
Condition number	Condition
7-A1	Odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
7-L1	Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Noise	
Condition number	Condition
7-N1	Except as provided for during blasting operations, the emission of noise from the premises must not result in levels greater than those specified in Schedule 7 – F Table 1 of the Noise Schedule.
7-N2	All blasting must be carried out in a proper manner by a competent person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impact of airblast overpressure and ground borne vibrations on sensitive premises and people living in or using the surrounding area.
7-N3	Noise from blasting operations must not exceed an airblast overpressure level of 115 dB (linear peak) for more than one (1) blast out of any five (5) consecutive blasts when measured at any sensitive receptor.
7-N4	Ground-borne vibration caused by blasting operations must not exceed a peak particle velocity of: <ul style="list-style-type: none"> i. twenty-five (25) millimetres per second for vibrations greater than 35 Hz; or ii. ten (10) millimetres per second for vibrations less than 35 Hz; These above values must not be exceeded for more than four (4) blasts out of any five (5) consecutive blasts when measured at any sensitive receptor.
7-N5	The measurement required for condition 7-N9 must be undertaken at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site of the blasting.
7-N6	For the purposes of checking compliance with condition 7-N1, monitoring and recording of the noise levels from the activity /activities must be undertaken for the following descriptors, characteristics and conditions: <ul style="list-style-type: none"> - $L_{Amax, Adj T}$; - $L_{A_{bg, T}}$ or $LA_{90, T}$; - $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); - L_{pAT}; - $L_{Aeq, T}$; - The level and frequency of occurrence of impulsive or tonal noise;

	<ul style="list-style-type: none"> - Atmospheric conditions including temperature, relative humidity and wind speed and direction; and - Effects due to extraneous factors such as traffic noise. 																		
7-N7	In conjunction with the measurement and recording of noise, the following parameters and conditions must be recorded: <ul style="list-style-type: none"> a. location, date and time of recording. 																		
7-N8	For the purposes of checking compliance with conditions 7-N2, 7-N3, 7-N4 and 7-N5. Monitoring must be undertaken for at least the following descriptors, characteristics and conditions: <ul style="list-style-type: none"> i. Overpressure level dB linear peak; ii. Ground vibration mm/s <35Hz; iii. Ground vibration mm/s >35Hz; iv. Atmospheric conditions including temperature, cloud cover, relative humidity and wind speed v. and direction; and vi. location, date and time of recording. 																		
<p>SCHEDULE 7 - F TABLE 1 Noise Schedule</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">NOISE LIMITS AT A NOISE SENSITIVE PLACE</th> </tr> <tr> <th style="text-align: center;">Period</th> <th style="text-align: center;">Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj, T}$</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">7 am - 6 pm</td> <td style="text-align: center;">Background noise level plus 5 dB(A)</td> </tr> <tr> <td style="text-align: center;">6pm – 10pm</td> <td style="text-align: center;">Background noise level plus 5 dB(A)</td> </tr> <tr> <td style="text-align: center;">10pm – 7am</td> <td style="text-align: center;">Background noise level plus 3 dB(A)</td> </tr> <tr> <th colspan="2" style="text-align: center;">NOISE LIMITS AT A COMMERCIAL PLACE</th> </tr> <tr> <td style="text-align: center;">7 am - 6 pm</td> <td style="text-align: center;">Background noise level plus 10 dB(A)</td> </tr> <tr> <td style="text-align: center;">6pm – 10pm</td> <td style="text-align: center;">Background noise level plus 10 dB(A)</td> </tr> <tr> <td style="text-align: center;">10pm – 7am</td> <td style="text-align: center;">Background noise level plus 8 dB(A)</td> </tr> </tbody> </table> <p>Associated monitoring requirements</p> <ol style="list-style-type: none"> 1. Noise monitoring must be in accordance with the most recent version of the administering authority's 'Noise Measurement Manual'. 		NOISE LIMITS AT A NOISE SENSITIVE PLACE		Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj, T}$	7 am - 6 pm	Background noise level plus 5 dB(A)	6pm – 10pm	Background noise level plus 5 dB(A)	10pm – 7am	Background noise level plus 3 dB(A)	NOISE LIMITS AT A COMMERCIAL PLACE		7 am - 6 pm	Background noise level plus 10 dB(A)	6pm – 10pm	Background noise level plus 10 dB(A)	10pm – 7am	Background noise level plus 8 dB(A)
NOISE LIMITS AT A NOISE SENSITIVE PLACE																			
Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj, T}$																		
7 am - 6 pm	Background noise level plus 5 dB(A)																		
6pm – 10pm	Background noise level plus 5 dB(A)																		
10pm – 7am	Background noise level plus 3 dB(A)																		
NOISE LIMITS AT A COMMERCIAL PLACE																			
7 am - 6 pm	Background noise level plus 10 dB(A)																		
6pm – 10pm	Background noise level plus 10 dB(A)																		
10pm – 7am	Background noise level plus 8 dB(A)																		
Agency interest: Water																			
Condition number	Condition																		
7-WT1	Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the premises to any waters at any location other than the contaminants and sources at the locations listed below: <p>Release Point No. 1: Controlled release valve at settlement pond number 2 to a western tributary of Moogurrapum Creek</p> <p>Overflow Point No. 1: Emergency release point at Settlement Pond number 2 to western tributary of Moogurrapum Creek.</p>																		
7-WT2	The quality of contaminants released from Release Point No. 1 must be measured at the measurement point specified in Schedule 7-H Table 1 must meet the following quality characteristics prior to release: <ul style="list-style-type: none"> i. The pH value must be not less than 6.5 and not more than 8.5; ii. The concentration of dissolved oxygen must be not less than 6 milligrams per litre; iii. The concentration of turbidity must not exceed 115 NTU; and iv. The concentration of total dissolved solids must not exceed 1000 milligrams per litre. 																		

7-WT3	Notwithstanding condition 7-WT2, water quality must be monitored for the concentration of total suspended solids at the measuring point specified in Schedule 7-H Table 2 Monitoring of Contaminant Releases to Waters.																			
7-WT4	The release to waters permitted under 7-WT1 must not produce any slick or other visible evidence of oil or grease, scum, litter or other visually objectionable matter.																			
7-WT5	The stormwater runoff from disturbed area of the site , generated by a storm event up and including a 24 hour storm event with an average recurrence interval of 1 in 4 years must be retained on site or managed to remove contaminants prior to release off site .																			
	<p>SCHEDULE 7- H Table 2 Monitoring of Contaminant Releases to Waters</p> <table border="1"> <thead> <tr> <th>QUALITY CHARACTERISTIC DETERMINATION</th> <th>SAMPLING POINT</th> <th>FREQUENCY</th> </tr> </thead> <tbody> <tr> <td>Dissolved Oxygen</td> <td>Settlement pond number 2</td> <td>Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required</td> </tr> <tr> <td>pH</td> <td>Settlement pond number 2</td> <td>Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required</td> </tr> <tr> <td>Suspended Solids</td> <td>Settlement pond number 2</td> <td>Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required</td> </tr> <tr> <td>Turbidity</td> <td>Settlement pond number 2</td> <td>Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required</td> </tr> <tr> <td>Total dissolved salts</td> <td>Settlement pond number 2</td> <td>Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required</td> </tr> </tbody> </table> <p><u>Associated monitoring requirements</u></p> <ol style="list-style-type: none"> Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection '<i>Monitoring and Sampling Manual</i>'. 		QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINT	FREQUENCY	Dissolved Oxygen	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required	pH	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required	Suspended Solids	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required	Turbidity	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required	Total dissolved salts	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required
QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINT	FREQUENCY																		
Dissolved Oxygen	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required																		
pH	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required																		
Suspended Solids	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required																		
Turbidity	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required																		
Total dissolved salts	Settlement pond number 2	Not less than quarterly in the event of a release. If no release occurs in the quarterly period, no sampling is required																		
Agency interest: Land																				
Condition number	Condition																			
7-L1	<p>Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that:</p> <ol style="list-style-type: none"> suitable native species of vegetation for the location are established and sustained for earthen surfaces; potential for erosion is minimised; the quality of water released from the site, including seepage, does not cause environmental harm; potential for environmental nuisance caused by dust is minimised; the water quality of any residual water body does not have potential to cause environmental harm; the final landform is stable and protects public safety. 																			

7-L2	Rehabilitation of disturbed areas that are no longer required for the on-going activities under the environmental authority, must be undertaken within 12 months (unless an exceptional circumstance in the area to be rehabilitated (e.g. a Flood event) prevents this timeframe being met.
7-L3	The area utilised for the extraction activities under this environmental authority must not exceed 10 hectares.
Agency interest: Waste	
Condition number	Condition
7-W1	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.

END OF CONDITIONS FOR GERMAN CHURCH ROAD, REDLAND BAY

Part 8

Location: Victoria Point Northern Boat Ramp Approach Channel
Adjacent to Lot 136 Plan SP127969

Relevant activity: 16-(1b) Dredging >10000t but <100000t yr

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
8-G1	<p>Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations:</p> <ol style="list-style-type: none"> 1. Capital and maintenance dredging works solely within the confines of the area labelled “dredging area” indicated in the submitted Queensland Transport and Main Roads drawing 724713 <i>Victoria Point Northern Boat Ramp Approach Channel - certified by Mr T Giufre on 6 August 2018 (Schedule 8-1- Maps/Plans, Figure 1)</i>. 2. Maximum depth of dredging works is not to exceed -1.8m LAT (Lowest Astronomical Tide). 3. The disposal of dredged spoil may not occur onsite.
8-G2	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
8-G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
8-G4	The registered operator of an ERA to which this approval relates must provide to the administering authority written notification of the date when dredging will commence at least seven (7) days prior to starting the activity .
8-G5	The registered operator of an ERA to which this approval relates must provide to the administering authority written notification of the date of cessation of dredging under this approval within seven (7) days of such cessation.
8-G6	All records must be kept for a period of at least five years and provided to the administering authority upon request.
8-G7	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
8-G8	<p>The activity must be undertaken in accordance with written procedures that:</p> <ol style="list-style-type: none"> 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. ensure that reviews of environmental performance are undertaken at least annually.

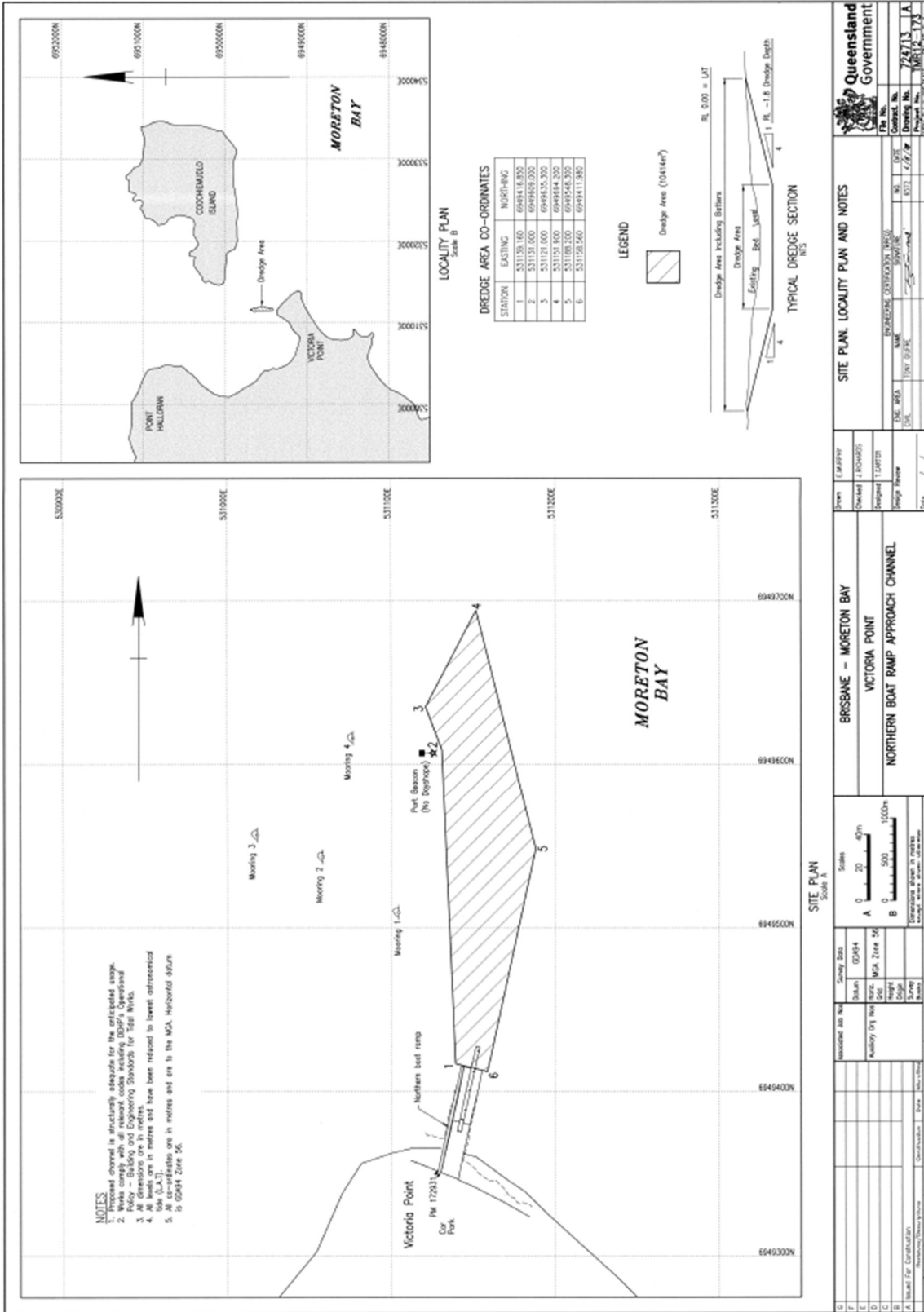
8-G9	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.																					
8-G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .																					
8-G11	You must record the following details for all environmental complaints received: <ol style="list-style-type: none"> 1. date and time complaint was received 2. name and contact details of the complainant 3. nature of the complaint 4. investigations undertaken 5. conclusions formed 6. actions taken. 																					
Agency interest: Air																						
Condition number	Condition																					
8-A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .																					
Agency interest: Water																						
Condition number	Condition																					
8-WT1	Other than as permitted within this environmental authority, contaminants must not be released to any waters .																					
8-WT2	<p>The only contaminants to be released to surface waters are sediments disturbed whilst conducting the dredging activity in accordance with <i>Table 8-2 Surface water release limits</i> and the additional requirements.</p> <p>Table 8-2 Surface water release limits</p> <table border="1"> <thead> <tr> <th>Dredging Location</th> <th>Minimum Frequency</th> <th>Monitoring location</th> <th>Quality characteristic (units)</th> <th>Minimum</th> <th>Median</th> <th>Maximum</th> <th>Relevant Information</th> </tr> </thead> <tbody> <tr> <td rowspan="2">As prescribed in condition 8-G1</td> <td rowspan="2">Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily¹ during dredging.</td> <td rowspan="2">Down current monitoring point²</td> <td>Turbidity (NTU)</td> <td>N/A</td> <td></td> <td>BV³ +10 NTU BV³ +10%</td> <td>When the background value³ is less than 100 NTU, the level must not exceed 10 NTU above the background value³. When the background Value³ is more than 100 NTU, the level must not be greater than 10% than the background value³.</td> </tr> <tr> <td>pH (pH units)</td> <td>7.0</td> <td></td> <td>8.5</td> <td>Measure background value³</td> </tr> </tbody> </table> <p>Additional requirements</p>	Dredging Location	Minimum Frequency	Monitoring location	Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information	As prescribed in condition 8-G1	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily ¹ during dredging.	Down current monitoring point ²	Turbidity (NTU)	N/A		BV ³ +10 NTU BV ³ +10%	When the background value ³ is less than 100 NTU, the level must not exceed 10 NTU above the background value ³ . When the background Value ³ is more than 100 NTU, the level must not be greater than 10% than the background value ³ .	pH (pH units)	7.0		8.5	Measure background value ³
Dredging Location	Minimum Frequency	Monitoring location	Quality characteristic (units)	Minimum	Median	Maximum	Relevant Information															
As prescribed in condition 8-G1	Sampling is to be undertaken on the day before dredging commences. Thereafter, sampling is to be undertaken daily ¹ during dredging.	Down current monitoring point ²	Turbidity (NTU)	N/A		BV ³ +10 NTU BV ³ +10%	When the background value ³ is less than 100 NTU, the level must not exceed 10 NTU above the background value ³ . When the background Value ³ is more than 100 NTU, the level must not be greater than 10% than the background value ³ .															
			pH (pH units)	7.0		8.5	Measure background value ³															

	<ol style="list-style-type: none"> 1. Minimum frequency can be changed to weekly when 5 consecutive days of dredging produce no exceedances of turbidity as defined in <i>Table 8-2 Surface water release limits</i>. If an exceedance occurs, daily monitoring must resume. 2. The down-current monitoring point(s) may be less than, but must not be more than 350m down-current of the dredging activity (provide Global Positioning System in eastings and northings for the up-current control site(s), dredging location(s), and downstream monitoring point(s) for each monitoring event related to this condition). 3. The BV or "background value" for a quality characteristic is the quality characteristic value as measured at an up-current control (non-impacted) monitoring point situated in the receiving environment and: <ol style="list-style-type: none"> a. must be measured throughout the water column at 2m depth intervals where overall depth is >10m. or 1m depth intervals where the overall depth is <10m, with the deepest reading taken at least 1m above the substrate - the average of the readings is the BV; b. must be from 50-100m up-current from any location where sediment is disturbed during the regular conduct of the dredging activity; c. must be determined only at times when tidal flows are occurring, and must not be determined within the period of one hour either side of slack tide. 4. All monitoring must be conducted in accordance with methods prescribed in the latest edition of the Monitoring and Sampling Manual. 5. All monitoring must be carried out on samples that are representative of the effects of the dredging activity. 6. All monitoring devices must be effectively calibrated and maintained. 																				
8-WT3	<p>In carrying out the activity, the release of contaminants (including any release caused by extraction of material from the bed of waters) must:</p> <ol style="list-style-type: none"> 1. only occur within the permitted areas referred to and specified in condition 8-G1, not be released in the form of a 'plume' which exceeds the turbidity criteria in <i>Table 8-2 Surface water release limits</i> and the additional requirements, 2. not have any properties which are capable of causing environmental harm, 3. not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter. 																				
8-WT4	All reasonable and practicable measures must be undertaken to minimise the size of the sediment plume and concentration of suspended solids during the conduct of the dredging activity .																				
Agency interest: Land																					
Condition number	Condition																				
8-L1	Other than as permitted within this environmental authority, contaminants must not be released to land .																				
Agency interest: Noise																					
Condition number	Condition																				
8-N1	Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in <i>Table 8-1 Noise limits</i> and the associated requirements at any nuisance sensitive place .																				
8-N2	<p>Table 1 - 1 Noise limits</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Noise level measured in dB(A)</th> <th colspan="3">Monday to Saturday</th> <th colspan="3">Sundays and public holidays</th> </tr> <tr> <th>7am – 6pm</th> <th>6pm – 10pm</th> <th>10pm – 7am</th> <th>9am – 6pm</th> <th>6pm – 10pm</th> <th>10pm – 9am</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="6" style="text-align: center;">Noise measured at a nuisance sensitive place ¹</td> </tr> </tbody> </table>	Noise level measured in dB(A)	Monday to Saturday			Sundays and public holidays			7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am		Noise measured at a nuisance sensitive place ¹					
Noise level measured in dB(A)	Monday to Saturday			Sundays and public holidays																	
	7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am															
	Noise measured at a nuisance sensitive place ¹																				

	<table border="1"> <tr> <td>L_{Aeq, adj, T}</td> <td>Background +5</td> <td>Background +3</td> <td>Background +0</td> <td>Background +5</td> <td>Background +3</td> <td>Background +0</td> </tr> <tr> <td>Max_{LpA, T}</td> <td>Background +10</td> <td>Background +8</td> <td>Background +5</td> <td>Background +10</td> <td>Background +8</td> <td>Background +5</td> </tr> </table>	L_{Aeq, adj, T}	Background +5	Background +3	Background +0	Background +5	Background +3	Background +0	Max_{LpA, T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
L_{Aeq, adj, T}	Background +5	Background +3	Background +0	Background +5	Background +3	Background +0									
Max_{LpA, T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5									
	<p>Associated monitoring requirements</p> <ol style="list-style-type: none"> All monitoring devices must be correctly calibrated and maintained. Any monitoring must be in accordance with the most recent version of the administering authority's '<i>Noise Measurement Manual</i>'. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation. 														
8-N3	<p>When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table 8—1 Noise limits</i>, and the results notified within 14 days to the administering authority.</p> <p>Monitoring must include:</p> <ul style="list-style-type: none"> - L_{Aeq, adj, T} - Background noise (Background) as L_{A 90, adj, T} - Max_{LpA, T} - the level and frequency of occurrence of any impulsive or tonal noise - atmospheric conditions including wind speed and direction - effects due to extraneous factors such as traffic noise - recording of location, date and time of measurements. 														
Agency interest: Waste															
Condition number	Condition														
8-W1	<p>The only areas permitted to receive dredge spoil under this environmental authority are those described as a '<i>Material disposal area - MDA01 - Mud Island</i>' indicated within Part 6, schedule 2, section 24 of the <i>Marine Parks (Moreton Bay) Zoning Plan 2008</i>.</p> <p>Any material that is not able to be deposited at the '<i>Material disposal area - MDA01 Mud Island</i>' must be deposited at either:</p> <ol style="list-style-type: none"> an approved reclamation area; or at a landfill site or other location lawfully able to receive this material. 														
8-W2	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.														

Schedule 8-1 Maps/ Plans

Figure 1. Victoria Point Northern Boat Ramp Approach Channel



DEFINITIONS

Key terms and/or phrases used in this document are defined in this section and bolded throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Annual return means the return required by the annual notice under section 308 (Annual fee and return) of the *Environmental Protection Act 1994*.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Approved plans means the plans and documents listed in the approved plans section in the notice attached to this environmental authority.

Authorised place means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

Background means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response.

Commercial place means a place used as an office or for business or commercial purposes.

Dredge spoil means material taken from the bed or banks of waters by using dredging equipment or other equipment designed for use in extraction of earthen material.

Dwelling means any of the following structures or vehicles that is principally used as a residence -

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

Department of Environment and Heritage Protection means the department administering *the Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

Environmental nuisance is unreasonable interference or likely interference with an **environmental value** caused by—

- a) aerosols, fumes, light, noise, odour, particles or smoke; or
- b) an unhealthy, **offensive** or unsightly condition because of contamination; or
- c) another way prescribed by regulation.

Environmental value is—

- a) a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
- b) another quality of the environment identified and declared to be an **environmental value** under an environmental protection policy or regulation.

L_{A 10, adj, 15 mins} means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 15 minute measurement period, using Fast response.

L_{A 1, adj, 15 min} means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 15 minute measurement period, using Fast response.

L_{Aeq adj,T} means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.

L_{A, max adj} means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 15 minute period, using Fast response.

Land in the "land schedule" of this document means land excluding waters and the atmosphere.

Max_{L_{PA,T}} means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

Measures has the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

Mg/L means milligrams per litre.

Noise sensitive place means a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008* and includes -
a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or a motel, hotel or hostel; or a kindergarten, school, university or other educational institution; or a medical centre or hospital; or a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or a public thoroughfare, park or gardens.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 2008 (whether or not it has been treated or immobilised), and includes -

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

Site means land or tidal waters on or in which it is proposed to carry out the development approved under this environmental authority.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a noise sensitive place exceeding 55 dB(Z).

Watercourse means a river, creek, lake or stream in which water flows permanently or intermittently-

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea),

stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof,

Works or operation means the development approved under this environmental authority.

You means the holder of this environmental authority or owner / occupier of the land which is the subject of this environmental authority.

END OF PERMIT