

# Western Basin Dredging and Disposal Project

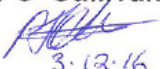
Annual Compliance Report of *Environment Protection and Biodiversity Conservation Act (EPBC) 2009/4904*

December 2016

**For the attention of: Department of the Environment and Energy**

edocs NO: 1297854



Rev No.	Date	Status	Author	Reviewer	Endorsed by
1	03/12/2016	Final	AS	ME/JS/GD	Peter O' Sullivan  3.12.16

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## **Table of Abbreviations**

Descriptor	Description
ACR	Annual Compliance Report
ASSMP	Acid Sulfate Soil Management Plan
BPAR	Benthic Photosynthetically Active Radiation
BOS	Biodiversity Offset Strategy
CEO	Chief Executive Officer
CG	Coordinator General
DAFF	Department of Agriculture, Fisheries and Forestry now Department of Agriculture and Fisheries (DAF)
EHP	Department of Environment Heritage and Protection (formerly DERM)
DMP	Dredge Management Plan
DTRP	Dredge Technical Reference Panel
DCMP	Dredging and Construction Management Plan
DoEE	Department of the Environment and Energy (formerly DoE)
EBSDS	East Banks Sea Disposal Site
EPBC	Environment Protection and Biodiversity Conservation
EPR	Environmental Performance Report
ERMP	Ecosystem Research and Monitoring Program
ERMPAP	Ecosystem Research and Monitoring Program Advisory Panel
GPC	Gladstone Ports Corporation
GBRMP	Great Barrier Reef Marine Park
GBRMPA	Great Barrier Reef Marine Park Authority
LNG	Liquefied Natural Gas
LTSDP	Long Term Sediment Disposal Plan
NPSR	Department of National Parks, Sports and Recreation

PAR	Photosynthetically Active Radiation
RAN	Royal Australian Navy
ToR	Terms of Reference
TSHD	Trailing Suction Hopper Dredge
WBRA	Western Basin Reclamation Area
WBDDP	Western Basin Dredging and Disposal Project
WQIP	Water Quality Improvement Program
WQMP	Water Quality Management Plan

## 1. Introduction

The Western Basin Dredging and Disposal Project (WBDDP) was declared a significant project by the Coordinator General (CG) on 24 April 2009. The Department of the Environment and Energy (DoEE) approved the project with 52 conditions (Ref: Environment Protection and Biodiversity Conservation EPBC 2009/4904) on 22 October 2010. The WBDDP accommodated the long term dredging of Gladstone Harbour which was intended to provide safe and efficient access to the emerging Liquefied Natural Gas (LNG) industry in the region. This involved the dredging of about 25 million m<sup>3</sup> of material from the seabed for the deepening and widening of the existing channels and swing basin and the creation of new channels, swing basins and berth pockets. Dredging for the WBDDP commenced on 20 May 2011. The disposal was split between the Western Basin Reclamation Area (WBRA) at Fisherman's Landing (onshore) and the East Banks Sea Disposal Site (EBSDS) (offshore). Offshore dumping under the sea dumping permit last occurred on 18 March 2013. Dredging for Stage 1A of the project was completed on 18 September 2013 with approximately 22.5 million m<sup>3</sup> of material being dredged. 17.45 Mm<sup>3</sup> of this material was disposed at the WBRA and 5.11 Mm<sup>3</sup> in the EBSDS.

Compliance obligations under the EPBC 2009/4904 in terms of monitoring and reporting still continues and this report is in fulfilment of one such Condition (46).

Condition 46 of the *EPBC Act Approval (2009/4904)* states:

*Each year the person taking the action must provide a report to the Minister addressing compliance with each of the conditions of this approval. The date of the first compliance report must be within 42 days after the initial twelve months of the date of approval with each subsequent report 12 months from the date of the previous report. The Compliance report must:*

- (a) be endorsed by the Chief Executive Officer (CEO) of GPC or a person approved in writing by the Department, delegated to sign on behalf of the CEO or the person taking the action;*
- (b) include a statement as to whether the person taking the action has complied with the conditions;*
- (c) identify any non-compliances and describe corrective and preventative actions taken; and*
- (d) make the compliance report publicly available on the internet within 30 days of it being submitted to the Minister.*

The 2016 Annual Compliance Report (ACR) has been prepared covering the period 22 October 2015 to 31 October 2016 and should be read in conjunction with the 2016 Environmental Performance Report (EPR) which is being submitted along with this report in compliance with Conditions 36 and 37 of the *EPBC Act Approval*. Many conditions in this approval relate to active stage of dredging, which has been completed in September 2013. Previous ACRs (2011 to 2014) demonstrated compliance with these conditions and have been referred to in relevant sections of the report. These reports are also available on the Gladstone Port Corporation's (GPC) website:

<http://www.gpcl.com.au/envirodocs-desc?j={Approvals and Management Plans}&y=1>

The current report focusses on demonstrating compliance with the conditions relevant to activities that occurred during the reporting period; 22 October 2015 – 31 October 2016. A compliance rating of Not Applicable (NA) has been assigned to those conditions that are not relevant in the current reporting period.

The activities that are currently occurring under the approval are:

- Monitoring of Seagrass in Port Curtis
- Monitoring of groundwater at the WBRA
- Third party audits of the Acid Sulphate Soil Management Plan
- Ecosystem Research and Monitoring Program
- Biodiversity Offset Strategy Monitoring Programs

**No non-compliances or partial compliances were identified during the current reporting period.**

## 2. Compliance Table

**Sea Dumping Permit SD2010/1742 - Conditions for Dumping at Sea of Seabed Material Derived from Capital Dredging, Port of Gladstone, Gladstone, Queensland- Amended on 9 of August 2012, this permit expired on 20 October 2015**  
**No sea disposal had occurred under Permit SD2010/1742 since the 18 of March 2013**

NA: Not Applicable (as dredging operations for Stage 1A of WBDDP has been completed, details included in ACRs (2011-2014))

Y: Compliant

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
1	Except so far as the contrary intention appears, terms used in these conditions to this permit have the same meaning as such terms in the Act.		NA
<b>Dredging and Disposal Activities</b>			
2	GPC must manage the dumping activities in accordance with the approval granted under section 133 of the <i>Environment Protection and Biodiversity Conservation Act 1999</i> for EPBC 2009/4904 except for those activities which are subject to condition 2A of this permit.	No sea disposal occurred during the current reporting period.	NA
2A	GPC must manage dredging and disposal activities, as described in the variation request of 7 December 2011, in accordance with the dredge management plan approved under the conditions of approval for EPBC 2008/4399	No sea disposal occurred during the current reporting period.	NA
3	GPC must provide the Department with additional sampling and analysis for the capital dredge material in areas A, B, H and F as outlined in Figure 1 of the Application. Dredging and dumping must not take place until GPC is notified in writing by the Department that the capital dredge material is suitable for unconfined ocean disposal.	No sea disposal occurred during the current reporting period.	NA
<b>Material to be dumped</b>			
4	GPC must ensure that the dredge material which is loaded and dumped comprises only up to 11 million cubic meters of	No sea disposal occurred during the current reporting period.	NA



Condition No.	Requirement	Compliance Comments-2016	Compliance Rating										
	capital seabed material as described in the Application and the variation request dated 23 <sup>rd</sup> May 2011 and 16 <sup>th</sup> December 2011												
	<b>Disposal Site</b>												
5	<p>GPC must only dump within the East Banks Sea Disposal Site, as defined by the following WGS84 coordinates:</p> <table border="0"> <tr> <td>Latitude (South)</td> <td>Longitude (East)</td> </tr> <tr> <td>23° 53.84´</td> <td>151° 29.02´</td> </tr> <tr> <td>23° 52.83´</td> <td>151° 27.10´</td> </tr> <tr> <td>23° 51.53´</td> <td>151° 27.91´</td> </tr> <tr> <td>23° 52.54´</td> <td>151° 29.84´</td> </tr> </table>	Latitude (South)	Longitude (East)	23° 53.84´	151° 29.02´	23° 52.83´	151° 27.10´	23° 51.53´	151° 27.91´	23° 52.54´	151° 29.84´	No sea disposal occurred during the current reporting period.	NA
Latitude (South)	Longitude (East)												
23° 53.84´	151° 29.02´												
23° 52.83´	151° 27.10´												
23° 51.53´	151° 27.91´												
23° 52.54´	151° 29.84´												
6	GPC must ensure that each load of dredged material is dumped so that the dumped material is distributed evenly over the area of the disposal site defined in Condition 5.	No sea disposal occurred during the current reporting period.	NA										
7	GPC must establish by GPS that, prior to dumping; the vessel is within the disposal site defined in Condition 5.	No sea disposal occurred during the current reporting period.	NA										
	<b>Access for Observers</b>												
8	At least two nominees of the department are to be afforded access to witness, inspect, examine or audit any part of the operations, including any dumping or monitoring activity, the vessel or any other equipment, or any documented records, and are to be provided with any necessary assistance in carrying out their duties.	No sea disposal occurred during the current reporting period.	NA										

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
<b>Environmental Risk and Incidents</b>			
9	If, at any time during the course of the dredging/ dumping activities, an environmental incident occurs or environmental risk is identified, all measures must be taken immediately by GPC to mitigate the risk or the impact. The situation is to be reported in writing within one (1) business day, to the department, with details of the incident or risk, the measures taken, the success of those measures in addressing the incident or risk and any additional measures proposed to be taken.	No sea disposal occurred during the current reporting period.	NA
10	GPC must document any incident involving the dumping activities that result in injury or death to any EPBC Act listed species. The time and nature of each incident and the species involved, if known, must be recorded and reported in writing within one (1) business day, to the Department according to Condition 9.	No sea disposal occurred during the current reporting period	NA
<b>Compliance of all Parties engaged in dumping activities</b>			
11	GPC must ensure that all persons engaged in the dumping activities under this permit, including the owner (s) and person (s) in charge of the vessel, comply with this permit and the requirement of the Act.	No sea disposal occurred during the current reporting period.	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
<b>Monitoring and Reporting</b>			
12	<p>GPC must keep records comprising either weekly plotting sheets or a certified extraction of the ship's log which details:</p> <ul style="list-style-type: none"> <li>a. the times and dates of when each dumping run is commenced and finished;</li> <li>b. the position (as determined by GPS) of the vessel at the beginning and end of each dumping run, with the inclusion of the path of each dumping run; and</li> <li>c. the volume of dredge material (in -situ cubic metres) dumped and quantity in dry tonnes for the specified operational period and compare these quantities with the total amount permitted under the permit on a daily basis.</li> </ul> <p>These records must be retained by GPC for verification and audit purposes.</p>	No sea disposal occurred during the current reporting period.	NA
13	<p>A bathymetric survey of the disposal site must be undertaken by GPC:</p> <ul style="list-style-type: none"> <li>a. prior to the commencements of dredging under this permit; and</li> <li>b. within one month of the completion of all dumping activities authorised under this permit.</li> </ul>	No sea disposal occurred during the current reporting period.	NA
14	<p>Within two (2) months of the final bathymetric survey being undertaken. GPC must provide a digital copy of each of the bathymetric surveys to the RAN Hydrographers, Locked Bag 8801, South Coast Mail Centre, NSW 2521.</p>	No sea disposal occurred during the current reporting period.	NA
15	<p>GPC must provide a report on the bathymetry to the department within two (2) months of the final bathymetrics survey being undertaken. The report must include a chart showing the change in sea floor bathymetry as a result of dumping and include written commentary on the volumes of dumped material that appear to have been retained within the disposal site.</p>	No sea disposal occurred during the current reporting period.	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
16	To facilitate annual reporting to the International Maritime Organisation, GPC must report to the department by 31 January each year, including on the day of the expiry of the permit or completion of all dredging under this permit, information at Appendix 2 to this permit, or in a format as approved by the department from time to time.	The last annual report was submitted to International Maritime Organisation on 6 January 2016 reporting nil volume dredged in the preceding year.	Y

**Approval – Conditions - Decision on Controlled Action EPBC 2009/4904**

**Current Status of project as at October 2016: Stage 1A of dredging works under this Approval was completed on 18 of September 2013.**

NA: Not Applicable (as dredging operations for Stage 1A of WBDDP has been completed, details included in 2011,2012,2013 and 2014 ACRs) Y: Compliant

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
1	Stages 1A and 1B of dredging works, as shown at Annexure 1 to this approval, are approved to a total volume of no more than 25 million cubic metres (in situ).	No dredging occurred in the current reporting period.	NA
2	The total offshore disposal at the East Banks Sea Disposal Site (EBSDS) is to be no more than 11 million cubic metres (in situ).	No dredging occurred in the current reporting period.	NA
3	Stages 2, 3 and 4 of dredging works, as shown at Annexure 1 to this approval, are approved to a total volume of no more than 21 million cubic metres (in situ), subject to receiving all further approvals required for any offshore disposal of dredge material.	Stage 2, 3 and 4 dredging works have not been undertaken.	N/A
4	Dredging works associated with Stages 2, 3 and 4, as shown at Annexure 1 to this approval, that require spoil disposal in addition to the approved disposal at the East Banks disposal ground as at condition 2, are approved but must be phased in accordance with a Long Term Sediment Disposal Plan (LTSDP). This plan must: <ul style="list-style-type: none"> <li>a) Be developed in consultation with the Department (and The Great Barrier Reef Marine Park Authority (GBRMPA) should offshore disposal in the GBRMP be proposed);</li> <li>b) Be submitted to the Department (and GBRMPA should offshore disposal in The Great Barrier Marine Park (GBRMP) be proposed) no less</li> </ul>	Stage 2, 3 and 4 dredging works have not been undertaken..	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>than two years prior to the expected date of commencement of Stage 2, 3 or 4 of dredging;</p> <p>c) Be approved in writing by the Minister prior to the commencement of dredging of Stages 2, 3 or 4;</p> <p>d) Include a comprehensive assessment of all dredge material disposal alternatives; and</p> <p>Include an indicative timetable of future dredging required for Stages 2, 3 or 4.</p>		
5	<p>No dredge material is to be disposed of in the GBRMP unless first authorised under all permits and authorities required for activities within the GBRMP.</p>	<p>No dredging occurred in the current reporting period.</p>	NA
6	<p>The person taking the action must comply with the requirements of any permit obtained under the <i>Environment Protection (Sea Dumping) Act 1981</i>, including any conditions attached.</p>	<p>No off-shore dumping occurred during the current reporting period under this permit The WBDDP Sea Dumping Permit expired on 20 October 2015.</p>	NA
7	<p>The Western Basin land reclamation area must be no greater than 300 hectares in total and must be constructed generally in accordance with the design as shown at Annexure 2 to this approval and will not exceed 27 metres in height above LAT. Detailed specifications of the reclamation area must be included and approved in the Dredging and Construction Management Plan (DCMP) as described in condition 15(a).</p>	<p>No disposal into the WBRA occurred in the current reporting period.</p> <p>Compliance demonstrated in 2014 ACR</p>	NA
8	<p>The design, construction materials and construction methodology and management for the outer bund wall of the Western Basin land reclamation area must ensure appropriate design of the reclamation area to prevent water quality impacts from leaching material through the bund wall, decant waters and storm-water run-off.</p>	<p>This activity was completed in 2011.</p>	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
9	<p>In relation to the management of acid sulphate soils and potential acid sulphate soils, the person taking the action must comply with the conditions and any amendments to these, contained at Schedules 1-3 of the 'Western Basin Dredging and Disposal Project Coordinator-General's report for an environmental impact statement', July 2010.</p>	<p>Since completion of Stage 1 dredging, biannual third party audits of the ASSMP (Acid Sulfate Soil Management Plan) have been conducted to ensure compliance.</p> <p>In the current reporting period third party audits of the ASSMP were conducted on 1 December 2015 and 21 of June 2016. The next audit is scheduled for 6 December 2016.</p> <p>The December 2015 audit identified two opportunities for improvement which were closed in the June audit:</p> <p><b>I-01</b>  <b>Issue sighted</b>  <i>During the site inspection, it was noted that scouring of the walls of the emplacement had occurred. GPC should consider implementing a maintenance program to ensure that the integrity of the emplacement area is not compromised by the scouring.</i>  <b>Status Current Audit</b>  <i>It was reported that GPC earthworks staff had visually inspected the emplacement area and had advised that the integrity of the wall was not compromised and no action was required. Monitoring of scouring was undertaken during monthly inspections conducted by the environmental compliance specialist.</i>                      Closed</p> <p><b>I-02</b>  <b>Issue sighted</b>  <i>During the site inspection, water was noted to be seeping preferentially through the emplacement wall. GPC may consider sampling the seepage water and assessing water quality.</i>  <b>Status Current Audit</b>  <i>GPC had identified areas of seepage and undertaken water quality monitoring to assess seepage water quality. Results showed water quality was typical of sea water.</i>                      Closed</p>	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>The June 2016 audit identified one opportunity for improvement:</p> <p>Issue Sighted:</p> <p><i>“Monitoring records for the previous six months do not show any adverse trends in water quality, with results at 24 of the 29 sites consistently meeting project quality criteria. While results for the other 5 sites do not always meet site criteria, results have consistently shown no impact from PASS or ASS. GPC may wish to consider reviewing the monitoring program to reduce the frequency and number of locations sampled. Any review should consider existing data, number of locations sampled and the frequency of monitoring.”</i></p> <p>Action:</p> <p><i>Groundwater Monitoring program is under review for reduction in either frequency or number of locations.</i></p>	
10	The person taking the action must not undertake any dredge material rehandling.	No dredging operations were conducted during the current reporting period.	NA
11	One trailer suction hopper dredge (TSHD) is permitted to operate at any given time. When the TSHD is in use, a maximum of two cutter suction dredges may operate unless otherwise prescribed in the approved Water Quality Monitoring Program as required by condition 21.	No dredging operations were conducted during the current reporting period.	NA
12	The TSHD must not operate in overflow mode except during the last one hour of flood tide and first three hours of ebb tide unless otherwise in accordance with the approved Water Quality Monitoring Program as required by condition 21.	No off-shore dumping occurred during the current reporting period under this permit.	NA
13	The TSHD must not operate in overflow mode for more than 30 minutes per cycle, with no more than two cycles per tide unless otherwise in accordance with the	No off-shore dumping occurred during the current reporting period under this permit.	NA



Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	approved Water Quality Monitoring Program as required by condition 21.		
14	Where construction and or dredging methods with lower environmental impacts are identified to be practical, these methods must be implemented.	No construction or dredging activities occurred in the reporting period.	N/A
15	<p>To mitigate the impacts from dredging activities on the values of the Great Barrier Reef World Heritage Area and National Heritage Place, and EPBC Act listed threatened and migratory species, the person taking the action must prepare and submit to the Minister for approval a Dredging and Construction Management Plan (DCMP). The DCMP must include the following:</p> <ul style="list-style-type: none"> <li>a) Detailed specifications of the reclamation area;</li> <li>b) Mapping of significant and sensitive receptors in the port area, including within Port Curtis and within and adjacent to the East Banks spoil ground with linkages to applicable monitoring programs;</li> <li>c) Assessment of all potential and real environmental risks to matters protected by the EPBC Act from dredging activities and construction activities;</li> <li>d) Appropriate measures (for example mitigation measures, performance indicators / trigger levels and corrective actions / management actions) that will ensure that there are no unacceptable impacts on the Great Barrier Reef World Heritage Area and National Heritage Place, EPBC Act listed threatened or migratory species. These must include:</li> </ul>	<p>The WBDDP Dredge Management Plan (DMP) took into consideration all compliance under this condition (2013 ACR).</p> <p><b>The WBDDP DMP is currently dormant till further dredging under this permit occurs as per agreement with the Department of Environment and Heritage Protection (EHP).</b></p>	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<ul style="list-style-type: none"> <li data-bbox="405 304 1025 467">i. Operating procedures to minimize injury to, or mortality of, EPBC Act listed threatened or migratory species from dredging activities or construction activities;</li> <li data-bbox="405 475 1025 671">ii. Reporting mechanisms that ensure reporting to the Minister within one business day of injury to, or mortality of, an EPBC Act listed threatened or migratory species cause by dredging activities or construction activities;</li> <li data-bbox="405 679 1025 908">iii. Management triggers, based on results obtained from the Water Quality Monitoring Program referred to at condition 21, including a reporting requirement to advise the Department in writing within one working day when triggers are exceeded;</li> <li data-bbox="405 916 1025 1078">iv. Contingency measures, based upon results of water quality and seagrass monitoring and the ERMP required under condition 27, when dredging operations must be varied or suspended;</li> <li data-bbox="405 1086 1025 1182">v. Management triggers and contingency measures when construction or pile driving must be varied or suspended;</li> <li data-bbox="405 1190 1025 1353">vi. Measures that minimize the risk of introduced marine pest species, including ballast-water management and vessel inspections for any non-domestic vessels;</li> <li data-bbox="405 1361 1025 1415">vii. Measures that ensure that dredging activities do not impact corals during</li> </ul>		

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>coral spawning periods; and</p> <p>viii. Responsive actions that will be undertaken in the event contingency measures are employed, including reporting to the Minister.</p> <p>e) Details of responsible parties for each action described in the DCMP;</p> <p>f) An organizational structure showing all responsible parties referred to in condition 15(e);</p> <p>g) Measures that ensure periodic reviews of the DCMP and that ensure continual improvement measures are applied accordingly; and</p> <p>h) Future maintenance dredging requirements and cumulative impacts of other dredging that may occur consequential to the project.</p>		
16	The DCMP must be submitted for approval by the Minister at least 1 month prior to the proposed commencement of dredging operations.	The DMP for offshore disposal was submitted to DoEE on 13 April 2011 and approved on 20 April 2011. Dredging work commenced on 20 May 2011 and ended on 18 September 2013. The current DMP was submitted to DoEE on 5 October 2012 and approved on 30 November 2012.	Y
17	Dredging activities must not commence until the DCMP has been approved. The approved DCMP must be implemented.	No dredging operations were conducted in the current reporting period.	NA
<b>Technical Reference Panel</b>			
18	<p>The person taking the action must establish, fund and manage a technical reference panel. The technical reference panel must be established according to the following requirements:</p> <p>a) The technical reference panel must be</p>	<p>No dredging operations were conducted in the current reporting period.</p> <p>On 6 March 2014, the Dredge Technical Reference Panel (DTRP)</p>	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>established prior to and for the duration of the project;</p> <p>b) The members of the technical reference panel must include, in addition to regulators, independent scientific and technical experts, of whom at least one must be a scientific expert in seagrass and benthic habitat research and management, and one a technical expert in dredging matters;</p> <p>c) The membership of technical reference panel must be approved by the Minister in writing prior to the completion and submission of the Water Quality Monitoring Program to the Minister for approval;</p> <p>d) Terms of reference for the technical reference panel, which must include the frequency of proposed meetings, chairing and quorum arrangements, must be approved by the Minister in writing prior to the completion and submission of the Water Quality Monitoring Program to the Minister for approval.</p>	<p>members were issued with a letter from GPC advising them of the completion of Stage 1A of WBDDP and terminating the contracts of the Panel members.</p>	
19	<p>The person taking the action must ensure that the technical reference panel undertakes the following:</p> <p>a) Provides regular advice on the design and ongoing review of the Water Quality Monitoring Program, referred to in condition 21; and</p> <p>b) Provides advice on and oversees all aspects of water quality monitoring, including the implementation of a transition from a water quality monitoring program that is based on turbidity towards a program that is based on light attenuation and seagrass health.</p> <p>c) Assess any exceedance of trigger values and</p>	<p>No meetings were held in the current reporting period. The DTRP is no longer functional.</p>	NA

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	seagrass changes at key monitoring locations and advises changes to dredging practices, through the DCMP, as required.		
20	The person taking the action must provide to the Minister, a copy of all the recommendations made by the technical reference panel and an explanation of how these recommendations have, or will be, implemented. This information must be provided to the Minister within one month of receiving advice from the technical reference panel, or within any timeframe should this be less than one month.	No meetings were held in the current reporting period. The DTRP is no longer functional.	NA
<b>Water Quality Monitoring Program (WQMP)</b>			
21	Prior to the commencement of dredging activities, the person taking the action must develop a Water Quality Monitoring Program to manage the impacts from dredging activities on water quality and the ecological health of marine communities relevant to the values of the Great Barrier Reef World Heritage Area and National Heritage Place, listed threatened species and migratory species and must be approved in writing by the Department.	In a written agreement from EHP, the Water Quality Management Plan (WQMP) has been placed into a dormant stage till further dredging occurs.	NA
22	The primary objectives of the proposed water quality monitoring program must be to protect sensitive marine ecosystems by: <ul style="list-style-type: none"> <li>a) Verifying the results of plume modeling and predicted effects, including the spatial extent, magnitude and duration of elevated turbidity and / or reduced light attenuation in the vicinity of dredging and related activities;</li> <li>b) Providing information that can be used to alter dredge methods and / or implement mitigation measures in an adaptive management framework to ensure the protection of sensitive</li> </ul>	A detailed water quality and seagrass monitoring program was implemented throughout the duration of dredging and for a period (specified in the WQMP) post completion of dredging. (Please refer 2011, 2012, 2013 and 2014 ACRs for details).	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	marine ecosystems.		
23	<p>In order to meet the objectives at condition 22, the WQMP must include the following:</p> <ul style="list-style-type: none"> <li>a) Monitoring must commence a minimum of 6 months prior to commencement of dredging;</li> <li>b) Monitoring must continue over the full period of dredging activities, and for a period prior to and after dredging as defined by the monitoring program;</li> <li>c) Methods of water quality sampling must include appropriate quality assurance / quality control (QA / QC);</li> <li>d) Monitoring and reporting must be consistent with the National Water Quality Management Strategy Australian Guidelines for Water Quality Monitoring and Reporting (2000) or subsequent versions thereof;</li> <li>e) Must be consistent with the Water Quality Guidelines for the Great Barrier Reef Marine Park (2009) or subsequent versions thereof;</li> <li>f) Establishment of baseline background water quality conditions including an analysis of water quality variability, and key factors that influence this variability, including resuspension of dredged material;</li> <li>g) Measurement of water quality conditions at reference locations and in the vicinity of dredging and other project related activities ('exposed' locations);</li> <li>h) Development of a trigger or triggers for management action is when impacts are observed in areas expected to be impacted by</li> </ul>	<p>Compliance with 23 a-n was demonstrated in 2011- 2014 ACRs</p> <p>23o, Quarterly monitoring of permanent transects for seagrass percent cover and annual monitoring of seagrass health and mapping is ongoing.</p> <p>The quarterly seagrass transect monitoring comes to an end in November 2016. Annual surveys for mapping and health assessment of the seagrass will continue till 2018.</p> <p>Details of monitoring and outcomes for the current reporting period have been included in 2016 EPR.</p> <p>Quarterly measurement of Benthic Photosynthetically Active Radiation (BPAR), has continued at seven (7) locations and comes to an end in November 2016.</p>	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>dredge activities;</p> <ul style="list-style-type: none"> <li>i) Development of a trigger or triggers for management actions when impacts are observed in areas where they were not predicted;</li> <li>j) Hydrodynamic and plume modelling during dredging, to assist the validation of water quality predictions associated with dredging and / or related operations;</li> <li>k) Selection of appropriate reference and exposed monitoring locations based on condition 23(e) (at least 6-12 sites) as agreed to by the technical reference panel at condition 18 above;</li> <li>l) A description of methodology including:                             <ul style="list-style-type: none"> <li>i. QA / QC for measurement of water quality conditions;</li> <li>ii. Consideration to be given to continuous and real-time (eg., via telemetry and spot sampling by field personnel) measurements of turbidity and / or light attenuation at multiple depths;</li> <li>iii. Consideration of non-project related factors that may also affect water quality;</li> <li>iv. Visual techniques (e.g. aerial photography);</li> <li>v. Methods for monitoring the dispersion of re-suspended sediments which must include some means of assessing resettlement (for spoil disposal impacts).</li> </ul> </li> </ul>		

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<ul style="list-style-type: none"> <li>vi. Derivation of turbidity and / or light attenuation trigger values based on an assessment of the light requirements of seagrasses in the Gladstone area and modified as new research information becomes available;</li> <li>vii. Description of the approach for presenting water quality measurements including appropriate statistical methods.</li> <li>m) A schedule for reporting water quality monitoring results to the Department;</li> <li>n) A description of adaptive management actions that will be undertaken should the derived trigger(s) be exceeded, both in terms of operational procedures and the water quality monitoring program. These actions must be linked to the DCMP;</li> <li>o) Mapping assessing key significant and sensitive receptors, including but not limited to seagrass beds and coral reefs. The monitoring program must include:               <ul style="list-style-type: none"> <li>i. Establishment of permanent assessment sites at key locations, with at least quarterly measurements of health and resilience, indicators of which are to be identified in the monitoring plan;</li> <li>ii. Consideration of natural season variation;</li> <li>iii. Assessment of resilience to impact and capacity for recovery.</li> </ul> </li> </ul>		
24	The person taking the action must make the findings, including related data, of any or all of these studies or	All requests for information pertaining to the release of reports	Y



Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	activities publicly available upon request by any interested parties.	received in the current reporting period were actioned and relevant reports made available on the GPC website or to individuals in accordance with GPC's data request policy.	
	<b>Research Advisory Panel</b>		
25	<p>The person taking the action must establish, fund and manage a research advisory panel. The research advisory panel must be established according to the following requirements:</p> <ol style="list-style-type: none"> <li>a) The research advisory panel must be established prior to and for the duration of the Ecosystem Research and Monitoring Program (ERMP) as described at condition 27, to assist in the design and ongoing review of the ERMP such that the research is relevant and incorporated into the adaptive management of the Western Basin Strategic Dredging and Disposal Project;</li> <li>b) The members of the research advisory panel must include independent scientific experts of whom at least one must be a scientist with expertise in inshore dolphins, one a scientist with expertise in marine reptiles, one a scientist with expertise in migratory shorebirds and one a scientist with expertise in tropical marine ecology;</li> <li>c) The membership of the research advisory panel must be approved by the Minister in writing prior to the completion and submission of the Ecosystem Research and Monitoring Program to the minister for approval; and</li> <li>d) The terms of reference for the research advisory panel, which must include the frequency of proposed meetings, chairing and quorum</li> </ol>	<p><u>Condition 25a-c:</u> The ERMP has continued during the current reporting period.</p> <p><u>Condition 25d:</u> The Terms of Reference (ToR) for the ERMPAP were approved by the Minister on 30 September 2011. The 'ERMPAP Governance' section of the ToR of the ERMP was amended and approved by DoE on 30 August 2013. The ToR were resubmitted for approval on the 12 May 2014 to include the new chair, additional proxy members, external reviewers and other administrative edits. Approval was received on 3 June 2014. A fourth submission of the ERMP ToR was made to DoE for approval on 31 July 2015. Revisions included:</p> <ul style="list-style-type: none"> <li>• Changes to Conditions 33f, k and l as per the amended EPBC Act Approval dated 17 July 2015</li> <li>• Minor changes to ERMP governance arrangements</li> <li>• Minor administrative changes.</li> </ul> <p>The amended ERMP ToR were approved on 20 October 2015.</p>	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	arrangements, must be developed by the Panel at its inception and must be approved by the Minister in writing prior to the submission of the ERMP to the Minister for approval.		
26	The person taking the action must provide to the Minister, a copy of all the recommendations made by the research advisory panel and an explanation of how these recommendations have, or will be, implemented. This information must be provided to the Minister within one month of receiving advice from the research advisory panel or within any timeframe recommended by the research advisory panel, should this be less than one month.	<p>In the current reporting period three (3) ERMPAP meetings were held (February, May and August 2016). The agenda items of these meetings included:</p> <ul style="list-style-type: none"> <li>• ERMP budget and financial update</li> <li>• Update on results and findings of ERMP surveys and research</li> <li>• Trends and issues arising from results and findings of ERMP surveys and research</li> <li>• Further monitoring or research requirements or addition/omissions</li> <li>• Discuss interactions with other relevant stakeholders</li> <li>• Resolutions for advice to GPC and subsequently DoE</li> </ul> <p>In the current reporting period, one (1) letter of recommendations pertaining to ERMPAP governance and changes in scope of projects (dated 9 September 2016) was sent to GPC by ERMPAP Chair.</p> <p>The letter of recommendations and GPC's response to these recommendations were forwarded to DoEE on 6 October 2016.</p>	Y
	<b>Ecosystem Research and Monitoring Program</b>		
27	The person taking the action must develop and implement an Ecosystem Research and Monitoring Program (ERMP) to acquire a detailed ecological understanding of the marine environment of Port Curtis and Port Alma that can be used to monitor, manage and / or improve the regional marine environment and to offset potential impacts from the project on listed threatened and migratory species and values of the Great Barrier Reef World Heritage Area and National	<p>In the current reporting period the ERMP has been amended to include the following changes:</p> <ul style="list-style-type: none"> <li>• The project list has been updated to better reflect current ongoing programs</li> <li>• Minor administrative changes</li> </ul> <p>The amended ERMP was approved by DoEE on 8 January 2016 and current programs are proceeding in accordance with the</p>	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	Heritage Place.	approved ERMP.	
28	The ERMP must be submitted to the Department for approval no later than six months from the date of this approval.	The original ERMP was submitted to DoEE on 18 April 2011.	Y
29	After twelve months from the date of this approval the person taking the action must not undertake any dredging activities, land reclamation or construction activities unless the Minister has approved the ERMP in writing.	The ERMP was approved by the Minister on 21 October 2011. WBDDP dredging commenced on 20 May 2011	Y
30	The ERMP must be implemented for a period of no less than ten years from the date of the Department's initial approval of the ERMP.	Programs to meet the conditions under the ERMP were initiated in 2011. The program is proposed to run till 2021, though individual projects may have varying durations as determined by the ERMPAP.	Y
31	The results of the ERMP must be used to inform an adaptive management response to observed impacts or potential impacts identified.	The outcomes of the Tier 1 literature review and gap analysis studies on marine turtles, dugongs, dolphins and migratory shorebirds have been instrumental in the design of the Tier 2 core research projects, currently being conducted under the ERMP. It is being envisaged that the information gained from the Tier 2 projects will help in the management or improvement of the regional environment. The Advisory Panel has suggested that funding be allocated for the reparation of a synthesis report in 2020-2021 compiling information from all the studies conducted under the ERMP to inform adaptive management responses.	Y
32	The ERMP must be reviewed and revised (if appropriate) and submitted to the Minister on an annual basis, or at such other time as might be as otherwise agreed by the Minister from the date of the Department's initial approval for the duration of the ERMP.	The ERMP was revised and submitted to DoEE for approval on 4 November 2015. Changes included an update of ERMP programs based on advice by the Advisory Panel. A document justifying proposed changes was also submitted with the ERMP. The ERMP was approved by DoEE on 8 January 2016.	Y
33	Ecosystem and Research Monitoring Programme The ERMP must include, but not be limited to, the	Details of all studies conducted in compliance with this condition and the approved ERMP have been compiled in a separate report	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>following:  <u>Marine Megafauna</u>                      (a) Conditions 33(b) to (e) below must be undertaken for EPBC Act listed threatened and migratory species, including dugong, turtles and dolphins and other species as relevant to the values of the Great Barrier Reef World Heritage Area and National Heritage Place.                      (b) Determine measurable population characteristics for key species before the start of dredging and develop appropriate indicators to monitor population changes.                      (c) Monitor the effects of project-related activities including, but not limited to: dredge vessel movement; pile driving; construction dredging; bund wall construction during dredging; construction of the bund wall; and filling of the reclamation area with reference to matters including: noise and, where relevant, associated pressure impacts; light spill; water quality reduction; decreased access to intertidal foreshore habitat; increased sedimentation; displacement                      (d) Identify potentially suitable habitats for key megafauna in the region at an ecological scale appropriate for megafauna species.                      (e) Determine the utilisation and significance of The Narrows for megafauna, and what effects the project may have on utilisation of this area.                      (f) The person taking the action must fund activities (conditions 33(a) – (e) above) to an amount of no less than \$5 million for the duration of the ERMP, expenditure of which is to be detailed in the compliance report required annually under condition 46 of this approval.</p>	<p>“Western Basin Dredging and Disposal Project (EPBC2009/4904) Environmental Performance Report submitted annually from 2011 onwards. The report for 2016 is being submitted along with this report.</p> <p><u>Conditions 33b:</u> Boat based and aerial surveys were conducted in 2011 before the start of dredging to collect data on the marine megafauna in the Port Curtis and Port Alma region. In 2011 and 2012 an extensive literature review and gap analysis based on existing studies in Port Curtis and Port Alma on dugongs, dolphins, marine turtles, seagrass, mangroves, water quality, coral and associated benthos were conducted as Tier 1 projects under the ERMP to gain an understanding of the population and current state of knowledge of these species in the ERMP study area.</p> <p><u>Conditions 33c:</u> The following studies were conducted to assess the impact of construction activities on the marine megafauna, the details of these studies are included in the 2012, 2013 and 2014 EPR:</p> <ul style="list-style-type: none"> <li>• Monitoring Aquatic Ambient Noise and Associated Pressure impacts in Port Curtis and Port Alma (May 2013), which measured the underwater noise levels in the harbour during dredging;</li> <li>• Monitoring Aquatic Ambient Noise and Associated Pressure impacts in Port Curtis and Port Alma (May 2014), which measured the underwater noise levels in the harbour after dredging was completed;</li> <li>• Gladstone Baseline Sky Cam Light Monitoring (September 2011) which measured light visibility on major turtle nesting beaches near Gladstone;</li> </ul>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p><u>Migratory Shorebirds</u></p> <p>(g) Comprehensive surveys of Port Curtis and Port Alma prior to the start of dredging including: population censuses of all species present, mapping of feeding and roosting sites, investigation of habitat utilisation relative to the lunar/tide cycles and season, and identification of critical characteristics of important habitat.</p> <p>(h) A minimum of two years of surveys, including two surveys in the December – February period, single surveys during both the northward and southward migration periods and a minimum of one survey during winter (May-August).</p> <p>(i) Single, annual summer surveys (October – March) covering the major high tide roost sites from years three to eight, with a repeat of the comprehensive surveys during years nine and ten.</p> <p>(j) Monitoring the effect of those port development activities potentially affecting migratory shorebirds, including but not limited to:</p> <ul style="list-style-type: none"> <li>• Dredge vessel movement</li> <li>• Pile driving</li> <li>• Construction dredging</li> <li>• Bund wall construction during dredging</li> <li>• Construction of the bund wall</li> <li>• Filling of the reclamation area</li> </ul> <p>And will address matters including:</p> <ul style="list-style-type: none"> <li>• Noise impacts</li> <li>• Light spill</li> <li>• Water quality reduction</li> <li>• Decreased access to intertidal foreshore</li> </ul>	<p>No discernible impacts of sounds and pressure on the marine megafauna were identified in the studies. Though a slight disorientation of turtle hatchlings towards the Gladstone light glow was observed on moonless nights during surveys conducted in 2014, the glow was a cumulative impact from industries in Gladstone. All WBDDP dredging activities had been completed in 2013.</p> <p>Light measurements, on three turtle nesting beaches, Curtis Island, South End Beach and Facing Island conducted in September 2011 by Pendoley et al during the dredging project, identified Queensland Alumina, RG Tanna Coal Terminal and Gladstone city as the three major sources of light from Gladstone. No major light spill from the WBDDP operations was documented in the report.</p> <p>No pile driving was conducted during the project.</p> <p>As per advice from the ERMP Advisory Panel, no tagging of megafauna could be conducted in 2012 and most of 2013 due to the poor health of the turtles and dugongs following major flood in 2011. Hence megafauna data could not be collected under the ERMP in 2012/2013. Based on further advice from the Panel, monitoring of turtles commenced in 2013, and dolphin and dugongs in 2014.</p> <p>The Panel has recommended funding a synthesis report in 2020/2021 to summarise how the conditions pertaining to the ERMP have been met through monitoring as well as ancillary information from parallel studies.</p> <p><u>Condition 33d:</u> The following studies are being conducted to gain an understanding of suitable habitats for key marine megafauna in Port Curtis and Port Alma: The details of these studies are</p>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>habitat</p> <ul style="list-style-type: none"> <li>• Displacement</li> </ul> <p>(k) The person taking the action must fund activities (conditions 33(g) to (j) above) to an amount of no less than \$2 million for the duration of the ERMP, expenditure of which is to be detailed in the compliance report required annually under condition 46 of this approval.</p> <p><u>Seagrass</u></p> <p>(l) Annual long term seagrass monitoring surveys of seagrass distribution and abundance in the Western Basin and Port Curtis.</p> <p>(m) Monitor survival and recovery of seagrass and other marine communities in the project area during the construction period and for a minimum of five years following completion of dredging</p>	<p>included in the 2016 EPR.</p> <ul style="list-style-type: none"> <li>• Increase understanding of the status of Australian snubfin and Australian humpback dolphins within Port Curtis and Port Alma</li> <li>• Marine Turtle Nesting Populations: Avoid, Peak and Curtis Island Flatback Turtles breeding season</li> <li>• Internesting habitat use by flatback turtles off the Curtis Island coast</li> <li>• Increase understanding of green turtle habitat usage in the Port Curtis and Port Alma Region: using Satellite Telemetry</li> <li>• Determine the composition by size, sex, maturity, growth rates, survivorship, recruitment and general health of the green turtle population in Port Curtis</li> <li>• Monitoring the survival and recovery of shorelines, specifically Tidal Wetlands Mangroves/Saltmarsh/Salt pans</li> <li>• Monitoring Seagrass Seed Bank Density and Viability within Port Curtis.</li> <li>• Assessment of dugong feeding trails and</li> <li>• Opportunistic tagging of dugongs</li> </ul> <p><u>Condition 33e:</u> the following ongoing studies under the ERMP will provide information on the usage of the Narrows:</p> <ul style="list-style-type: none"> <li>• Increase understanding of green turtle habitat usage in the Port Curtis and Port Alma Region: using Satellite Telemetry</li> <li>• Dolphin mark recapture studies in Port Curtis and Port Alma</li> <li>• Determine the composition by size, sex, maturity, growth rates, survivorship, recruitment and general health of the green turtle population in Port Curtis through opportunistic tunnel netting or similar technique at multiple sites.</li> <li>• The overall impact of the WBDDP on the Narrows will be addressed in the ERMP Synthesis Report to be prepared in 2020-2021.</li> </ul>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p><u>Condition 33f:</u></p> <ul style="list-style-type: none"> <li>• Expenditure on marine megafauna in the current reporting period (1 November 2015 to 31 October 2016) was \$ 763,970.12</li> <li>• Total expenditure on marine megafauna as at 31 October 2016 was \$\$2,553,220.00</li> </ul> <p><u>Conditions 33g-i</u> The following studies on migratory shorebirds have been conducted in the current reporting period. The details are included in the 2016 EPR.</p> <ul style="list-style-type: none"> <li>• Annual summer survey conducted from 8-12 February 2016</li> <li>• Migratory Shorebird Monitoring – Understanding Ecological Impact: Last survey conducted in 2016, final project report expected in early 2017.</li> </ul> <p><u>Condition 33j:</u> The Panel has advised that an ERMP synthesis report will be prepared in 2020/2021 which will address condition 33 j (details in 2013 ACR.)</p> <p><u>Condition 33k:</u> Expenditure on migratory shorebirds in the current reporting period (1 November 2015 to 31 October 2016) was \$254,802.25 Total expenditure on migratory shorebirds as at 31 October 2016 was \$1,599,428.00</p> <p><u>Condition 33l:</u> Advice on seagrass monitoring and research had been provided by the DTRP for the duration of the project. Post completion of Stage 1A dredging, quarterly monitoring of seagrass at seven locations is being undertaken in accordance with the DoEE and EHP approved WQMP.</p>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>In 2016, biannual mapping of seagrass in the harbour and annual health assessment studies have also been conducted. Details of the monitoring programs have been discussed in the 2016 EPR.</p> <p><u>Condition 33m</u>: The seagrass monitoring program will continue for a period of 5 years post completion of dredging i.e. until 2018.</p> <p>Additionally the following studies have been commissioned by the ERMPAP to assess the recovery of seagrass and other marine communities in the Port Curtis region.</p> <ul style="list-style-type: none"> <li>• Monitoring the survival and recovery of shorelines, specifically Tidal Wetlands Mangroves/Saltmarsh/Salt pans</li> <li>• Monitoring Seagrass Seed Bank Density and Viability within Port Curtis.</li> </ul>	
	<b>Reporting</b>		
34	The person taking the action must publish the ERMP Program on their website within two weeks of approval in writing by the Department.	The ERMP and the ERMP ToR are available on the GPC's website.	Y
35	The person taking the action must make the findings, including related data, of any or all of these studies publicly available upon request by any interested parties.	All final reports related to the ERMP are published on the GPC's website. <a href="http://www.gpcl.com.au/envirodocs-desc?j={Ecosystem Research and Monitoring Program}&amp;y=1">http://www.gpcl.com.au/envirodocs-desc?j={Ecosystem Research and Monitoring Program}&amp;y=1</a>	Y
36	The person taking the action must submit to the Minister an annual Environmental Performance Report covering the following topics: a) Dolphins, dugong and marine turtles, and other megafauna; b) Migratory shorebirds; and c) Seagrass.	The 2016 EPR has been prepared to provide a detailed account of the monitoring studies related to marine megafauna, migratory shorebirds and seagrass undertaken during the 2015-2016 reporting period. This report has been submitted along with this compliance report.	Y
37	12 Months from the date of approval, a report must be submitted outlining the initial environmental activities for	The EPR for the reporting period of 2015-2016 includes information on the amendments to the ERMP and will be submitted	Y



Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>the 12 month period. The report to be called the Environmental Performance Report and must be submitted within 42 days of the 12 month activity period. The Environmental Performance Report must include proposed environmental management improvements to be implemented through the DCMP, WQMP and other Plan as relevant. Reports are required annually from thereafter.</p>	<p>to the Minister on or before 3 December 2016.</p>	
<p>38</p>	<p>The person taking the action must submit a Biodiversity Offset Strategy to the Minister for approval in order to offset unavoidable impacts to the values of the Great Barrier Reef World Heritage Area and National Heritage Place, and EPBC Act listed threatened and migratory species. The strategy must include as a minimum the following requirements:</p> <ul style="list-style-type: none"> <li>a) Measures funded to not less than \$5 million including, but not limited to: <ul style="list-style-type: none"> <li>i. Funding for listed threatened and migratory species protection, habitat enhancement and restoration actions in the region or the wider bioregion such as 'seagrass friendly' mooring systems, wetland rehabilitation projects and water quality improvement programs;</li> <li>ii. Actions to reduce fisheries netting pressure in Port Curtis and in adjacent waters; and</li> <li>iii. Actions to reduce potential for coastal impacts such as commercial development in adjacent areas</li> </ul> </li> <li>b) Details of the management arrangements and a map of the 3,000 hectares of land at Port Alma proposed protection in perpetuity as an</li> </ul>	<p>A Biodiversity Offset Strategy (BOS) was developed and 16 projects identified to meet conditions under 38a to d. The BOS was submitted to DoE on 5 July 2012. Approval was received from DoE on 18 July 2012.</p> <p>The status of these projects as at October 2016 is:</p> <p><b>5.1 Signage and Education:</b></p> <ol style="list-style-type: none"> <li>1. Signs have been designed</li> <li>2. Installation of signs is being planned for 2017</li> <li>3. Education programs have been developed which are: <ul style="list-style-type: none"> <li>• Big6 website and tribe sign up function</li> <li>• Outdoor advertising campaign in the form of bill boards placed at strategic locations</li> <li>• Photography competition</li> <li>• Creek to Coast educational television segments</li> <li>• School Teacher's Kit</li> <li>• School engagement sessions</li> <li>• Facebook page: Megafauna Monday This post highlights the megafauna in GPC's operating areas, with a strong focus on the Big 6 animals. These posts became regular features from July 2016 on the GPC Facebook page, prior to then they were randomly posted.</li> </ul> </li> <li>4. A "Go slow for those below" campaign has been developed and</li> </ol>	<p>Y</p>

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>Environment Preservation Area;</p> <p>c) A Strategic Vessel Management plan for Port Curtis that must include, but not be limited to:</p> <ul style="list-style-type: none"> <li>i. Measures that will regulate boating speeds and movement in Port Curtis in perpetuity, including ongoing funding for enforcement of the program;</li> <li>ii. The establishment of 'go slow' zones; and</li> <li>iii. Establish roles and responsibilities for implementation of the Plan.</li> </ul> <p>d) Development of a seagrass conservation plan that must include but not be limited to:</p> <ul style="list-style-type: none"> <li>i. A map clearly illustrating the areas to be protected including the Wiggins / Mud Island seagrass beds, seagrass beds east of Quion Island and seagraas beds in Pelican Banks;</li> <li>ii. Measures to ensure that the seagrass beds within the Port are protected from ongoing and future Port activity; and</li> <li>iii. Commitments to ensure no further direct seagrass removal of the areas referred to in 38(d)i above, accounting for any increases in size of the mapped seagrass areas.</li> </ul> <p>e) The strategy must include key milestones, performance indicators, actions and timeframes for the completion of all offsets outlined in the strategy.</p> <p>f) The strategy must be prepared with the advice of the Water Quality technical reference panel and the Ecosystem Research and Monitoring</p>	<p>implemented. Actions have included::</p> <ul style="list-style-type: none"> <li>• Outdoor billboard advertising (ongoing)</li> <li>• Full page advertisement in the 2015 Boyne Tannum Hook Up event program</li> <li>• Dedicated advertisement on Gladstone Observer Tide Chart July-December 2015</li> <li>• Creek to Coast TV segment (aired on 19 March 2016)</li> <li>• Development of 2 x dedicated printed postcards</li> </ul> <p>5. Annual Social surveys:</p> <ul style="list-style-type: none"> <li>• The BOS Education and Awareness Program will be evaluated through targeted awareness questions contained in GPC's annual Corporate Image Study. GPC's next Corporate Image Study will be undertaken in December 2016, with results expected to be received by mid-December 2016. Community engagement with the program will also be undertaken through online survey's to GPC's current databases, and at relevant community events such as Eco Fest.</li> <li>• Find attached "Digital communications environment quarterly reporting" providing statistics to inform the useability and effectiveness of GPC's social platforms when promoting Environment-related opportunities, initiatives and programs. (Attachment 2)</li> </ul> <p><b>5.2 Assessment of marine traffic: This project has been completed</b></p> <ol style="list-style-type: none"> <li>1.Vessel movement data received by GPC.</li> <li>2.Report including map of marine vessel traffic movements received and accepted by GPC.</li> </ol> <p><b>5.3 Assessment, implementation and compliance of go slow zones</b></p> <ol style="list-style-type: none"> <li>1. A feasibility study on the establishment of enforced "go slow zones"</li> </ol>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>Program research advisory panel. The person taking the action must provide the written advice of these panels when submitting the strategy for approval.</p>	<p>was commissioned. "Report-Assessment and Review of Marine Traffic, Marine Fauna Incidents and the Necessity of go Slow Zones".</p> <p>2. The study found that GPC does not have the jurisdiction to implement "go slow zones". The studies recommended (a) developing a Vessel Management Plan to regulate GPC owned vessels and (b) developing an education and awareness program to act as a non-regulatory tool for facilitating community engagement regarding marine fauna management in Port Curtis.</p> <p>3. A Vessel Management procedure to regulate GPC owned vessels is being developed and will be submitted to DoEE for approval in 2017.</p> <p><b>5.4 Support to Queensland Parks and Wildlife Service (QPWS) for marine animal strandings</b></p> <p>In February 2014, QPWS advised GPC that there was limited need for funding and that GPC should channel funding towards other organisations conducting marine rehabilitation works. GPC advised DoEE of this development and the decision to fund other agencies undertaking marine rehabilitation work in the Gladstone Region through letter dated 17 March 2014. Agreement was received from DoEE on 20 May 2014. Hence funding from this project is being reallocated to project 5.15.</p> <p><b>5.5 Habitat enhancement and restoration actions</b></p> <ol style="list-style-type: none"> <li>1. Areas for habitat enhancement and restoration actions have been identified.</li> <li>2. Baseline biocondition monitoring of the identified sites was completed in June 2015. Report: "Enhancement and Restoration of High Value Habitat Areas: Baseline BioCondition Assessment- 2015."</li> <li>3. Sites on Curtis and Facing Islands were identified for restoration.</li> <li>4. Approvals for the on-ground works are being sought from the land owners.</li> </ol>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>5. On-ground works will commence once all approvals have been received.</p> <p><b>5.6 Stormwater pollution</b></p> <p>1. 'Gross pollutant traps' were identified as the preferred option for stormwater pollution management in the Gladstone Area.</p> <p>2. A site for placement of the 'gross pollutant trap' has been finalised.</p> <p>3. An agreement between GPC and Gladstone Regional Council (GRC) for installation of the trap has been finalised</p> <p>4. Work on installing the gross pollutant trap is yet to commence.</p> <p><b>5.7 Distribution, maintenance and monitoring of TAngler bins- This project has been completed</b></p> <p>1. A total of 37 TAngler bins have been deployed throughout the greater Gladstone region and adjoining environs in partnership with the Gladstone Regional Council, Rockhampton Regional Council, Queensland Department of Transport and Education Queensland.</p> <p>2. The TAngler bin program included a Public education/Awareness Campaign delivered by three key elements: a Television campaign, public awareness events/promotions and school engagement.</p> <p>3. Post installation surveys to assess contents and use of the bins highlighted that the bins have had the required purpose of providing a receptacle for litter that might have otherwise ended up in the environment. There appeared to be a pre-existing awareness of the purpose of the bins, and this coupled with the changes in items found in the surrounding environment suggest an improved understanding and an alteration in littering behaviour between the two sample events.</p> <p>4. Further to this, recent communications with the local government agency, shows they continue to be used as a receptacle for fishing related as well as other rubbish items. The contents vary from fishing lines, coffee cups, beer and soft drink cans, bags of dog poo, dead fish and waste which gets taken to the transfer station.</p> <p><b>5.8 Coral mapping and restoration</b></p>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>1. Health assessment and coral surveys were undertaken in 2014.</p> <p>2. A report "Prioritisation of Reef Restoration and Enhancement Site Selection – Phase 2 and 3" including status and map of coral distribution in the region and wider bioregion was finalised in 2015.</p> <p>3. This report suggests that restoration may not be a viable option in the BOS region and wider bioregion. This view has been endorsed by GBRMPA scientists.</p> <p>4. Alternative measures to achieve the intent of this condition are being reviewed.</p> <p><b>5.9 Integrated map of all protected areas and sensitive habitats in the region and wide bioregion- This project has been completed</b></p> <p>1. All relevant areas in the region and wider bioregion and their protective measures have been identified.</p> <p>2. All identified areas have been mapped in GIS.</p> <p>3. Though the compliance obligations under this project has been fulfilled GPC is continuing to update this map and in 2016 four updates occurred: These focussed on:</p> <ul style="list-style-type: none"> <li>• Inclusion of the expanded Fitzroy River Fish Habitat Area</li> <li>• Net free zones</li> <li>• Latest (2015) extent of seagrass meadows</li> <li>• New habitat protection on Curtis Island.</li> </ul> <p><b>5.10 Environmentally Friendly Moorings program</b></p> <p>1. The aim of this project was to identify areas suitable for installation of environmentally friendly moorings. A feasibility study of the areas in the BOS bioregion that are used for moorings was conducted in 2014 and showed that the eight (8) existing areas used for moorings are not located on any seagrass beds. Report- "Review of use, environmental benefits and potential for environmentally friendly moorings within the Gladstone region and wider bioregion"</p> <p>2. In 2016, GPC received a proposal from QPWS to install up to six (6) environmentally friendly moorings and up to six (6) reef protection markers at Pancake Creek which is just outside the wider BOS Bioregion. This required a variation to the original project (which required the installation of up to 20 EFMs</p>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>within the BOS region) and an amendment request was made to DoEE.                      3. Approval was received from DoEE on 31 October 2016.                      4. GPC has initiated the commercial process for commencing this project.</p> <p><b>5.11 Development of a regional code of practice for Inshore netting (Gladstone Region)</b>                      1. A code of practice has been developed.                      2. GPC will promote the code through installation of signs at selected boat ramps which is expected to happen in 2017.</p> <p><b>5.12 Funding of DAFF boating and Fisheries Patrol</b>                      1. Discussions were held between GPC and DAF on the logistics of working out funding arrangements in 2015 but since the approval of the BOS, no Queensland Boating and Patrol Officers have been based in Gladstone.                      2. Discussions between DoEE and GPC held on 21 May 2016 highlighted the fact that the intent of his project was to enforce 'go slow zones' in the harbour while WBDDP was in progress. As GPC has no mandate to implement 'go slow zones' in the harbour the intent of this project cannot be met.                      3. A variation to the existing BOS needs to be made to address this issue.</p> <p><b>5.13 Acquisition of High Value Land to protect from Development</b>                      1. A suitable high value block of land was identified in 2014.                      2. Department of National Parks, Sports and racing ( NPSR) outlined the following process for changing the tenure of the land to a regional park:                     <ul style="list-style-type: none"> <li>▪ GPC purchases land</li> <li>▪ GPC arranges for removal of encumbrances, weed control, fencing and production of signage.</li> <li>▪ A Road Reserve is declared over the water pipeline (surveyed out of freehold Lot) for Council access. (GPC to undertake all survey works and pay Stamp Duty etc associated with Department of Natural Resources and Mines process)</li> </ul> </p>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<ul style="list-style-type: none"> <li>▪ GPC transfers freehold title of Lot 3 to the Department of National Parks, Sport and Recreation (NPSR).</li> <li>▪ NPSR liaises with EHP to convert freehold to regional park as soon as possible after freehold title transfer.</li> </ul> <p>3. NPSR further requested confirmation that:</p> <ul style="list-style-type: none"> <li>▪ (a) the Commonwealth accepts that the BOS offset will be delivered on transfer of the freehold title to NPSR and (b) there will be no reporting or administrative requirements for QPWS to either GPC or the Commonwealth. On receipt of this confirmation QPWS will write to GPC to formalise the arrangement.</li> </ul> <p>4. DoEE approval to the above conditions was received on 16 March 2016.</p> <p>5. Land adjacent to Cawarral Creek was purchased by GPC in July 2016.</p> <p>6. GPC is currently finalising the contract for handing over the land to NPSR.</p> <p><b>5.14 Upper and lower catchment water quality monitoring and improvement of water quality in the Boyne or Calliope Rivers</b></p> <p>1. In 2015, GPC received reports from FBA providing the following information pertaining to the Boyne and Calliope catchments:</p> <ul style="list-style-type: none"> <li>• Reports "Status of marine and coastal Natural Assets-Fitzroy basin Region" and "Ecologically Relevant targets for pollutant discharge from the drainage basins of the Fitzroy Region, Great Barrier Reef" set reef and ecologically targets for pollutant discharge from the Fitzroy catchment into the, Great Barrier Reef</li> <li>• Identification of priority areas for targeting a water quality improvement program (WQIP) and an implementation plan for the water WQIP- "Priority Management Actions for Agriculture Industries in the Boyne and Calliope Catchments: 2015"</li> </ul>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<ul style="list-style-type: none"> <li>• A web based WOIP was made available in December 2015.</li> <li>• A report including updated modelling data and recommended management options was delivered to GPC in March 2016 "Priority Management Actions for the grazing Industry in the Boyne and Calliope Catchments :2016"</li> </ul> <p>2. Planning for next stages of this program is in progress</p> <p><b>5.15 Provide funding for a proposed marine rehabilitation facility in Gladstone</b></p> <ol style="list-style-type: none"> <li>1. The program has changed as no new facility is being built in the Gladstone Area.</li> <li>2. Funding is being provided to existing marine rehabilitation facilities for a period of three years. The first payment was made in 2015.</li> </ol> <p><b>5.16 Declared Fish Habitat Investigations in the Central Queensland Region</b></p> <p>The following studies were conducted under this project:</p> <ul style="list-style-type: none"> <li>• <i>Assessment of Sub-tidal Habitats at Cawarral Creek, Calliope River and Balaclava Island</i></li> <li>• <i>Leekes Creek Estuary, Seasonal Fish Surveys and Seagrass Assessment</i></li> </ul> <p>The Calliope River, Leekes Creek and the expanded Fitzroy delta (Balaclava Island) were declared as FHAs on 30 September 2016.</p> <p>38b: Under the Marine Fish Habitat Offset, conditioned under the Co-ordinator General's report for an EIS for the WBDDP, GPC is required to protect 5000 ha of this land. In addition, 2.10 hectares was added to this offset as a result of the development of the East Shores Precinct in Gladstone.</p>	



Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>As confirmed by DoEE, the 3000 ha outlined in Condition 38(b) is included in this 5002.10 ha under the Marine Fish Habitat and East Shores Precinct Land offsets. GPC is currently working with Queensland Government agencies to determine the best way to transfer the offset land back to the State.</p> <p>38c: A Strategic Vessel Management Procedure for GPC owned vessels is being developed and will address the following:</p> <ul style="list-style-type: none"> <li>• 38c(ii) the preparation of a map showing at-risk areas and speed restrictions imposed by Maritime Safety Queensland in the Harbour</li> <li>• 38c(iii) Clearly establishing the roles and responsibilities for implementing the Procedure</li> </ul> <p>38c(i) The study, “Assessment and Review of Marine Traffic, Marine Fauna Incidents and the Necessity of go Slow Zones” suggested that an education and awareness program can be initiated for the key marine megafauna species in the harbour. A program titled “go slow for those below” has been included under one of the BOS programs.</p> <p>38d: A Seagrass Conservation Plan is being developed to meet this approval condition which will include the following:</p> <ul style="list-style-type: none"> <li>• 38d(i) A map showing the Wiggins/ Mud Islands, Quoin Islands and Pelican Banks meadows</li> <li>• 38d(ii) An account of ongoing monitoring programs in the harbour to assess recovery and resilience of seagrass</li> <li>• 38d(iii) Commitment by GPC that no further removal of</li> </ul>	

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
		<p>seagrass will occur under this approval other than what has been approved in the WBDDP Environmental Impact Statement.</p> <p>38e. The approved BOS includes key milestones, performance indicators actions and timeframes for the completion of all offsets outlined in the Strategy. An extension of timeframes on some projects will also be required primarily due to amendment of scope. A revised BOS will be submitted to DoE for approval documenting the above changes.</p> <p>38f: The BOS was prepared with the advice of the DTRP and the ERMPAP.</p>	
39	The person taking the action must make the findings, including related data, of any or all of these studies and activities publicly available upon request by any interested parties.	<p>Reports generated under the BOS have been provided to interested parties upon request in accordance with GPC data request policy.</p> <p>An electronic copy of the final reports is provided with this report. A list of reports is appended as an attachment to this report.</p>	Y
40	The Biodiversity Offset Strategy referred to in Condition 38 must be submitted to the Minister for approval by the Minister within 12 months of the date of this approval.	Not relevant in the current reporting period (please refer to the 2013 ACR)	NA
41 Amended	After 21 months from the date of this approval, the person taking the action must not undertake any dredging activities, land reclamation or construction activities unless the Minister has approved the Biodiversity Offset Strategy in writing. The approved Plan must be implemented.	Not relevant in the current reporting period (2013 ACR)	NA
42	The person taking the action must ensure that all relevant staff and contractors and any other persons working on the action receive comprehensive training in relation to the requirements of this decision and comply	Relevant staff members have been made aware of the conditions of this approval during team meetings and during review of the Project's Approval Register.	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	with all requirements of this decision relevant to their duties prior to commencing action on the project.		
43	Upon the direction of the Department, the person taking the action must ensure that an Independent audit of compliance with the conditions of approval is conducted and a report submitted to the Department. The independent auditor must be approved by the Department prior to the commencement of the audit. Audit criteria must be agreed by the Department and the audit report must address the criteria to the satisfaction of the Department.	No directive has been received from DoEE to appoint an independent auditor and conduct a third party audit of the EPBC 2009/4904 Permit.	NA
44	If, at any time after two years from the date of this approval, the Minister notifies the person taking the action that the Minister is not satisfied that there has been substantial commencement of the action, the action must not thereafter be commenced without the written agreement of the Minister	No notification was received from the Minister.	NA
45	Within 10 days of commencement of the action, the person taking the action must advise the Minister in writing the actual date of commencement.	No action was requested in the reporting period	NA
46(amended)	Each year the person taking the action must provide a report to the Minister addressing compliance with each of the conditions of this approval. The date of the first compliance report must be within 42 days after the initial twelve months of the date of approval with each subsequent report 12 months from the date of the previous report. The Compliance report must: (a) be endorsed by the CEO of GPC or a person approved in writing by the Department, delegated to sign on behalf of the CEO or the person taking the action; (b) include a statement as to whether the person taking the action has complied with the conditions;	The current report is the sixth report submitted since the date of approval and covers activities occurring between 22 October 2015 to 21 October 2016. a) The report is endorsed by Peter O'Sullivan, GPC's CEO b) No issues were observed in the current reporting period. c) No issues were identified in the 2014 Compliance Report. d) The current compliance report will be published on the website within 30 days of its submission to DoE.	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	(c) identify any non-compliances and describe corrective and preventative actions taken; and (d) Make the compliance report publicly available on the internet within 30 days of it being submitted to the Minister.		
47	The Reports described at condition 46 must be provided until the closure of the action.	The current report is the sixth report submitted since the date of approval and covers activities occurring between 22 October 2015 to 31 October 2016.	Y
48	If the person taking the action wishes to carry out any activity otherwise than in accordance with the LTSDP, DCMP, WOMP, ERMP and Biodiversity Offset Strategy referred to in conditions 4, 15, 21, 26 and 38 respectively, the person taking the action must submit for the Minister's approval a revised version of the relevant plan (however described). The varied activity shall not commence until the Minister has approved the varied plan in writing. If the Minister approves such a revised plan, that plan must be implemented in place of the plan originally approved.	All plans and amendments to approvals have been submitted to the Minister and implemented only after approval has been received.	Y
49	All plans, reports, programs or strategies (however described) required under this approval must include the following elements: a) A description of the values of the Great Barrier Reef World Heritage Area and National Heritage Place, and EPBC Act listed species and habitat likely to be impacted by the components of the action which are the subject of that plan, report, program or strategy (however described); b) An assessment of the risk to these values, species or habitats, from the components of the action the subject of that plan, relevant to that plan, report, program or strategy (however described);	All requirements of this condition were addressed in the WBDDP Flora and Fauna Management Plan.  DoEE confirmed in an email dated 12 November 2012 " <i>The requirements of condition 49 are not relevant to individual projects within the ERMP. Therefore, it would be unreasonable and unnecessary for GPC to undertake a full description of heritage values for every project arising from the ERMP</i> ".  In an email dated 16 of November 2012, DoE confirmed that " <i>Condition 49 is not applicable to individual projects within the Biodiversity Offset Strategy</i> "	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	<p>c) Details of the management measures proposed in relation to these values, species or habitats, if it is a requirement of the condition requiring that plan, report, program or strategy (however described);</p> <p>d) Details of monitoring proposed that species if it is a requirement of the condition requiring that plan, report, program or strategy (however described);</p> <p>e) Performance standards in relation to that species if it is a requirement of the condition requiring that plan, report, program or strategy (however described); and</p> <p>f) Management triggers in relation to that species if it is a requirement of the condition requiring that plan, report, program or strategy (however described).</p>		
50	<p>Management plans, reports, systems and programs (however described) referred to in these conditions of approval must be made publicly available as determined by the Minister.</p>	<p>Management plans, strategies, reports and other documents are available on the GPC website:  <a href="http://www.gpcl.com.au/envirodocs-desc?j={Approvals and Management Plans}&amp;y=1">http://www.gpcl.com.au/envirodocs-desc?j={Approvals and Management Plans}&amp;y=1</a>                      Reports pertaining to the ERMP are available on the GPC ERMP webpage  <a href="http://www.gpcl.com.au/envirodocs-desc?j={Ecosystem Research and Monitoring Program}&amp;y=1">http://www.gpcl.com.au/envirodocs-desc?j={Ecosystem Research and Monitoring Program}&amp;y=1</a>                      Reports pertaining to the BOS are available on the GPC BOS webpage  <a href="http://www.gpcl.com.au/envirodocs-desc?j={Biodiversity Offset Strategy}&amp;y=1">http://www.gpcl.com.au/envirodocs-desc?j={Biodiversity Offset Strategy}&amp;y=1</a></p>	Y
51	<p>The person taking the action must maintain accurate records of activities associated with or relevant to the above conditions of approval, and make them available on request by the Department. Such documents may be subject to audit by the Department and used to verify</p>	<p>All records of the reports and data have been saved in GPC's electronic document management system and DataSight (database management systems).</p> <p>The WBDDP Environmental Permits and Approvals Register also</p>	Y

Condition No.	Requirement	Compliance Comments-2016	Compliance Rating
	compliance with the conditions of approval.	lists all amendments to permits, approvals and reports received under this approval.	
52	If the Minister believes that it is necessary or desirable for the better protection of any relevant controlling provision to do so, the Minister may request that the person taking the action make specified revisions to any plans, reports, programs or systems (however described) approved pursuant to these conditions. The person taking the action must comply with any such request. The revised plans, reports, programs or systems (however described) must be implemented.	No request was received from the Minister from 22 October 2015 to 31 October 2016.	NA

***ATTACHMENT 1***

## **Reports generated under the Ecosystem Monitoring and Research Program in 2015-2016**

1. Increase understanding of the status of the Australian snubfin and Australian humpback dolphins within Port Curtis and Port Alma- Progress Report 3 (eDocs# 1254032)
2. Port Curtis and Port Alma Coastal Habitat Archive and Monitoring Program 2015-2016 Annual Report Monitoring the survival and recovery of shorelines, specifically Tidal Wetlands (Mangroves/Saltmarsh/Saltpans) (eDocs# 1267861)
3. Annual report on inter-nesting habitat use by flatback turtles off the Curtis Island coast – 2014-2015 nesting season (eDocs# 1214830)
4. Annual report on dugong tracking and habitat use in Gladstone in 2014 eDocs# 1234500)
5. Annual report on dugong tracking and habitat use in Gladstone in 2015 (eDocs# 1234488)
6. Port Curtis Seagrass Seed Bank Density and Viability Studies - Year 2 Report (eDocs# 1280304)
7. Gladstone Ports Corporation Report for Migratory Shorebird Monitoring Port Curtis and the Curtis Coast Annual Summer Survey – 2016 (eDocs# 1239844)
8. Dugong Feeding Ecology and Habitat Use on Intertidal Banks of Port Curtis and Rodds Bay Interim Progress Report 2015 (eDocs# 1241758)
9. Annual Report: Migratory Shorebird Monitoring – Understanding Ecological Impact (CA12000284)- 2016 (eDocs# 1268260)
10. Increase the understanding of the Green Turtle Population In Port Curtis- Year 1 (2016) Field Report. (eDocs# 1296982)
11. Annual report on green turtle tracking and habitat use in Port Curtis-2015 (eDocs# 1271444)
12. Annual report on internesting habitat use by flatback turtles off the Curtis Island coast – 2014-2015 nesting season (eDocs# 1214830)
13. Marine Turtle Nesting Populations: Peak Island Flatback Turtles, 2015-2016 breeding season (eDocs# 1268347)
14. Marine Turtle Nesting Populations: Avoid Island Flatback Turtles, 2015-2016 breeding season (eDocs# 1268345)
15. Interim field report on flatback turtle tracking and habitat use in Port Curtis – Report on field trip November 2015 (eDocs# 1234826)
16. Marine Turtle Nesting Populations: Curtis Island and Woongarra Coast Flatback Turtles, 2015-2016 breeding season (eDocs# 1268346)
17. Monitor Marine Turtle Nesting Populations on Curtis Island, Peak Island and Avoid island, Milestone 8: Year 4 Field Plan (eDocs# 1296216)
18. Interim report on green turtle tracking and habitat use in Port Curtis – Report on field trip May 2016 (eDocs# 1277775)



**Seagrass Monitoring Studies outside the ERMP**

19. Long Term Seagrass Monitoring in Port Curtis: Quarterly Permanent Transect Monitoring Progress Report 2009 to 2015 (eDocs# 1269100)
20. Seagrasses in Port Curtis and Rodds Bay 2014: Annual long-term monitoring, (eDocs# 1283108)

**Biodiversity Offset Strategy Reports received in 2016**

21. Gladstone Area Water Board Annual Report Turtle Triage 2015/2016 (eDocs# 1259005)
22. Enhancement and Restoration of High Value Habitat Areas: Baseline BioCondition Assessment (eDocs#1215569)
23. Priority Management Actions for the Grazing Industry in the Boyne and Calliope Catchments: 2016 (eDocs#1237579)
24. Code of Best Netting Practice (edoc#1172208)

## **Attachment 2**



# 1.0 DIGITAL COMMUNICATIONS - ENVIRONMENT QUARTERLY REPORTING

For the period: NOVEMBER 2015 - OCTOBER 2016

The following metrics are provided to inform the useability and effectiveness of GPC’s social platforms when promoting Environment-related opportunities, initiatives and programs.

## 1.1 CORPORATE WEBSITE

Gladstone Ports Corporation website top 10 viewed and statistics specific to Environment pages from November 2015 - October 2016:

- <http://www.gpcl.com.au/environment> page visits: ..... 3094
- <http://www.gpcl.com.au/environment/compliance-and-monitoring> page visits: ..... 2707
- [Spinnaker Park Weather Station](#) page visits: ..... 2382
- [Cetaceans](#) page visits: ..... 2373
- [Crustaceans](#) page visits: ..... 2373
- [Shorebirds](#) page visits: ..... 2373
- [Dugongs](#) page visits: ..... 2373
- [Fish](#) page visits: ..... 2373
- [BOS](#) page visits: ..... 2373
- [Air Quality Monitoring](#) page visits: ..... 2373

## 1.2 BIG6 WEBSITE

Big 6 website top 10 pages viewed and statistics from November 2015 - October 2016:

- [www.gpcl.com.au/Big6/SitePage/default.aspx](http://www.gpcl.com.au/Big6/SitePage/default.aspx) page visits: ..... 5489
- <http://www.gpcl.com.au/big6/SitePages/RequestDetails.aspx?tribe=Fish> page visits: 3540
- [www.gpcl.com.au/Big6/dugongs](http://www.gpcl.com.au/Big6/dugongs) page visits: ..... 2994
- [www.gpcl.com.au/Big6/cetaceans](http://www.gpcl.com.au/Big6/cetaceans) page visits: ..... 2925
- [www.gpcl.com.au/Big6/crustaceans](http://www.gpcl.com.au/Big6/crustaceans) page visits: ..... 2870
- [www.gpcl.com.au/Big6/fish](http://www.gpcl.com.au/Big6/fish) page visits: ..... 2742
- [www.gpcl.com.au/Big6/birds](http://www.gpcl.com.au/Big6/birds) page visits: ..... 2279
- <http://www.gpcl.com.au/big6/SitePages/News.aspx> page visits: ..... 2188
- [www.gpcl.com.au/Big6/turtles](http://www.gpcl.com.au/Big6/turtles) page visits: ..... 1978
- <http://www.gpcl.com.au/big6/SitePages/naturepix.aspx> page visits: ..... 1664

## OVERALL STATISTICS

Overall Gladstone Ports Corporation statistics from **November 2015 - October 2016**:

<b>Page Likes</b>	Likes as at October 2016- 1,063 (217.3% increase since November 2015)
<b>Number of Environment specific posts</b>	25
<b>Total Post Reach</b>	11,751

Every Monday a MegaFauna Monday post is uploaded to the GPC Facebook page. This post highlights the megafauna in our operating areas, with a strong focus on the Big 6 animals. This is one of our most popular content items. Content is provided by Megan Ellis. These posts became regular features from July 2016 on the GPC Facebook page, prior to then they were randomly posted.

## PERFORMANCE

Top 5 performing Environment Specific Facebook posts.

Post	Date	People Reached	Likes	Comments	Shares	Post Clicks
HOW DO TRAINED RESEARCHERS CATCH TURTLES TO MONITOR HEALTH & WELLBEING?...	10.10.2016	3, 168	21 Likes 2 Wows	4	11	476
Shorebirds from as far afield as Alaska and Kamchatka near the Arctic Circle have been seen in the Gladstone over the last couple of years...	25.07.2016	958	27	0	4	81
In May, an adult male green turtle was caught near the mouth of the Boyne River and fitted with a GPS tracking unit...	15.07.2016	669	28	2	4	93
First banded in Broome, Western Australia in 2008, a 9-year-old red knot seen in Gladstone in September 2015 was spotted in New Zealand a few weeks later...	15.08.2016	625	10	0	0	8
With the Dolphins being spotted regularly at @East Shores Precinct, GPC's marine scientist was asked, do dolphins sleep?...	3.10.2016	402	14 Likes 1 Wow 1 Love	0	1	26

## 1.4 LINKEDIN

### OVERALL STATISTICS

Overall Gladstone Ports Corporation statistics from **November 2015 - October 2016**:

<b>Page Likes</b>	Likes as at October 2016- 1,918
<b>Number of Environment specific posts</b>	2

### PERFORMANCE

Post	Date	Impressions	Clicks	Interactions	Engagement	Likes
Small changes make real changes. Join Gladstone Ports Corporation at the 2016 Ecofest this Sunday, June 5 from 9am -3pm at the Tondoon Botanic Gardens. #Ecofest2016 #SmallChanges #RealChanges	2.06.2016	1506	7	3	0.66%	-
PORT NEWS: Strong commercial fishing catches, increased tourism and extensive marine research programs are a positive indication of the health of Gladstone Harbour.	23.08.2016	1,153	14	6	1.73%	5

## 1.4 PORTNEWS (eNewsletter)

PortNews was not sent in 2015. There were no environment focused articles featured in the January, April, May June, July, September or October editions of PortNews to report on.

### OVERALL:

PortNews Statistics for Edition 2 - February 2016 edition:

- Total recipients – **1,115**
- Opened by – **397 recipients (40.8%)**
- Clicked on by – **73 recipients (7.5%)**
- Bounced – **143 recipients**
- Unsubscribed – **7 recipients**

#### PERFORMANCE:

Content	Clicks	
Big 6 Article	13	12%

PortNews Statistics for Edition 3 - March 2016 edition:

- Total recipients – **1,047**
- Opened by – **363 recipients (37.5%)**
- Clicked on by – **81 recipients (8.4%)**
- Bounced – **80 recipients**
- Unsubscribed – **5 recipients**

#### PERFORMANCE:

Content	Clicks	
Big 6 Article	18	14%

PortNews Statistics for Edition 8 - August 2016 edition:

- Total recipients – **924**
- Opened by – **265 recipients (32.9%)**
- Clicked on by – **54 recipients (6%)**
- Bounced – **27 recipients**
- Unsubscribed – **5 recipients**

#### PERFORMANCE:

Content	Clicks	
Healthy focus on Gladstone Harbour	15	20%



## 1.5 MEASUREMENT TERMS

### FACEBOOK MEASUREMENT TERMS

Term	Definition
People reached	How many users have seen the information in their news feed.
Likes	Number of users actively clicking “like” on GPC’s posts.
Comments	Any comments entered by the user.
Shares	Number of times a user has shared the post with other Facebook users.
Post Clicks	User clicking ‘Like’ on the post.

### LINKED TERMS

Term	Definition
Impressions	The amount of times a post is seen.
Clicks	User clicking on information. Measurement used to determine engaging content.
Interactions	Includes the number of likes, comments and shares that the post receives.
Engagement	The number of interactions, clicks and followers acquired divided by the number of impressions. Measurement used to determined engaged users.
Likes	User clicking ‘Like’ on the post.