



2016 Annual Compliance and Water Quality Monitoring Report – Stormwater Return Dam (2010/5561)

Effective: 21/12/2016

Owner: Senior Environment and Community Advisor

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1 Introduction

The stormwater return dam was federally approved on the 2nd December 2011 (approval number 2010/5561). The dam intends to recycle water from the site's existing water management system, so that it can be used as process water around the site. It is proposed that through utilising the stormwater return dam, the Abbot Point Coal Terminal #1 will have enough water to process the nameplate capacity of the Terminal of 50 million tonnes per year.

The stormwater return dam was handed over from Adani Abbot Point Terminal Pty Ltd to Abbot Point Bulkcoal Pty Ltd (APB) on the 1st September 2013. Since the handover APB has been actively implementing the Operational Environmental Management Plan (OEMP).

This report intends to meet the compliance auditing and monitoring reporting requirements of the federal approval, as relevant to APB as the operator and maintainer of the stormwater return dam.

2 Monitoring Results

There has been no required operational water quality monitoring (as per the OEMP) for the Stormwater Return Dam since the operational handover on the 1st September 2013 as there have been no discharges from the Secondary Settlement Pond. Therefore, there is no data or interpretation required for water quality data (as per 2010/5561 - Approval Condition 2).

3 Compliance Condition Checklist

Number	Condition	Compliant			Comment
		Ye s	No	NA	
1	<p>The person taking the action must submit a <i>Construction Environment Management Plan (CEMP)</i> to protect the values of the Great Barrier Reef World Heritage Area and National Heritage Place. The CEMP must include but not be limited to:</p> <ul style="list-style-type: none"> a. Detailed Sediment and erosion control measures consistent with IECA (2008), <i>Best Practice Erosion and Sediment Control. International Erosion Control Association (Australasia)</i> b. Detailed Acid Sulfate Soil management measured consistent with the <i>Guidelines for Sampling and Analysis of Lowland Acid Sulfate Soils in Queensland (1998)</i> and the <i>Queensland Acid Sulfate Soils (ASS) Technical Manual- Soil Management Guidelines (2002)</i>. <p>The person taking the action must not commence construction unless the CEMP is approved by the Minister or deemed acceptable by an appropriate Queensland government agency as agreed by the department in writing.</p>	✓			The development of the CEMP is the responsibility of Adani Abbot Point Terminal Pty Ltd, as the company responsible for the construction of the stormwater return dam.

Number	Condition	Compliant			Comment
		Yes	No	NA	
2	<p>The person taking the action must submit a <i>Water Quality Monitoring Plan (WQMP)</i> to protect the values of the Great Barrier Reef World Heritage and National Heritage Place.</p> <p>The <i>WQMP</i> must include by not be limited to:</p> <ol style="list-style-type: none"> A minimum of three (3) baseline water quality reference sites in Kaili (Caley) Valley Wetland (the wetland), as minimum of one (1) baseline water quality reference site in Sediment Pond 2, and one (1) baseline water quality reference site within the stormwater return dam; A description of the biophysical character and morphology of all baseline water quality reference sites; Baseline estimates for the 20th, 50th and 80th percentile for all water quality parameters in the wetland and Sediment Pond 2 in accordance with <i>Queensland Water Quality Guidelines (2009)</i>; Provisions to monitor and annually report water quality parameters in the wetland and Sediment Pond 2 before and after a discharge event for a period of 5 years Identify threshold triggers and the response activities that will be implemented if a threshold is reached; Measures to ensure that there is no net increase in background levels of nitrogen, phosphorous, salts, organic matter (measured by biochemical or chemical oxygen demand) or other contaminants in the wetland as a result of discharges from the stormwater return dam Reporting arrangements to the department, management and external stakeholders including procedures for reporting non-compliance; and Monitoring that is in accordance with the relevant methods described in the <i>Queensland Water Quality Guidelines (2009)</i> and subsequent thereof. <p>Results of the Monitoring Programs (including data and its interpretation) are to be provided annually, by 31st January each year to the Department. These results, including data and its interpretation, must be published on the proponent's website within 1 month of being approved and made available for 6 months.</p> <p>The person taking the action must not commence construction unless the WQMP is approved by the Minister or deemed acceptable by an appropriate Queensland government agency as agreed by the department in writing.</p>	✓			<p>The WQMP aspect of the operation of the stormwater management plan was developed and included as Appendix C in the OEMP. The OEMP (and WQMP) was submitted to the government for review and approval on the 26th June 2013.</p> <p>All requirements are included to the Ministers satisfaction, as demonstrated through the approval of the OEMP. It should be noted that there is no baseline monitoring point for the stormwater return dam, as the water returns back through the settlement pond during a discharge from the stormwater return dam.</p> <p>No triggered water quality monitoring has been undertaken for the WQMP and therefore there is no data or interpretation to be submitted.</p> <p>Construction commencement of the stormwater return dam was the responsibility of Adani Abbot Point Terminal Pty Ltd, and therefore timing in relation to the approval of the WQMP was their responsibility.</p>

Number	Condition	Compliant			Comment
		Yes	No	NA	
3	<p>The person taking the action must submit an <i>Operational Environmental Management Plan (OEMP)</i> to protect the values of the Great Barrier Reef World Heritage Area and National Heritage Place.</p> <p>The OEMP must address the matters listed below and state the environmental objectives, performance criteria, monitoring, reporting, corrective action, responsibility and timing of each of these matters but not be limited to:</p> <ol style="list-style-type: none"> Detailed sediment and erosion control measured, consistent with <i>IECA (2008), Best Practice Erosion and Sediment Control. International Erosion Control Association (Australasia)</i> Detailed Acid Sulfate Soil management measures, consistent with the <i>Guidelines for Sampling and Analysis of Lowland Acid Sulfate Soils (ASS) in Queensland (1998)</i> and the <i>Queensland Acid Sulfate Soil Technical Manual- Soil Management Guidelines (2002)</i>; Measures to deal with hydrocarbon , metals and other contaminants; Chemical and fuel management and spill response; Measures to protect adjacent waterways; and Emergency response measures. <p>The person taking the action must not commence operations unless the OEMP is approved by the Minister or deemed acceptable by an appropriate Queensland government agency as agreed by the department in writing.</p>	✓			<p>OEMP reviewed and submitted to the Adani Abbot Point Terminal Pty Ltd for review and approval in December 2016.</p> <p>All aspects of the requirements are included for the Ministers, as demonstrated through the approval of the OEMP by the government on the 1st July 2013.</p>
4	<p>The person taking the action must submit for the Minister's approval a <i>Decommissioning Management Plan</i>. Decommissioning must be done in a manner that does not cause significant environmental impacts and leaves the sites free from encumbrances (i.e. buildings, plant, equipment, concrete slabs, toxic chemical residues etc). Decommissioning cannot commence until the plan is approved by the Minister. The approved plan must be implemented.</p>			✓	<p>This is currently not relevant but will be the responsibility of Adani Abbot Point Terminal Pty Ltd, as the proponent of the approval.</p>

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		Yes	No	NA	
5	Within 10 days after the commencement of the action, the person taking the action must advise the department in writing of the actual date of commencement.			✓	Construction commencement of the stormwater return dam was the responsibility of Adani Abbot Point Terminal Pty Ltd, and therefore timing in relation to the notifying the department was their responsibility.
6	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval including measures taken to implement the management/monitoring plans required by this approval, and make them available upon request to the department . Such records may be subject to audit by the department or an independent auditor in accordance with Section 458 of the <i>EPBC Act</i> , or used to verify compliance with the conditions of approval. Summaries of the	✓			Information relevant to all activities associated with the approval conditions (since the operational handover to Abbot Point Bulkcoal Pty Ltd on the 1 st September 2013) has been kept onsite and is managed through Abbot Point Bulkcoal Pty Ltd's document control system. To date the department has not requested any records or an independent audit of these records.
7	By 28 February of each year, the person taking the action must publish a report on their website addressing compliance with the conditions of this approval over the previous 12 months, including implementation of any management/monitoring plans as specified in the conditions. Non-compliance with any of the conditions of this approval must be reported to the department at the same time as the compliance report is published.			✓	Publishing reports associated with this approval is the responsibility of Adani Abbot Point Terminal Pty Ltd, the proponent of the approval, as highlighted in the OEMP.
8	Upon the direction of the Minister , 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 Minister . The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister .			✓	To date the Minister has not requested an independent audit in relation to compliance with the approval conditions.

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		Yes	No	NA	
9	If the person taking the action wishes to carry out any activity otherwise in accordance with the management/monitoring plan as specified in the conditions, the person taking the action must submit to the department of the Minister's written approval a revised version of that management/monitoring plan. The varied activity shall not commence until the Minister has approved the varied management/monitoring plan in writing. The Minister will not approved a varied monitoring/management plan unless the revised management/monitoring plan would result in an equivalent or improved environmental outcome over time. If the Minister approves the revised management/monitoring plan, that management/monitoring plan must be implemented in place of the management/monitoring plan originally approved.			✓	The variations on the OEMP has been in relation to: The frequency of SRD inspections, from fortnightly to monthly inspections. This was included in the 2014/2015 OEMP review process and approved by the Minister on the 23rd March 2015. The 2016 OEMP review has requested a change in relation to the upper limit pH trigger value to be changed from 8 to 9 to align with the site's Environmental Authority (EPPRO0577113). This has not been approved.
10	If the Minister believes that it is necessary or convenient for the better protection of the Great Barrier Reef World Heritage Area and National Heritage Place, the Minister may request that the person taking the action make specific revisions to the management/monitoring plan specified in the conditions and submit the revised management/monitoring plan for the Minister's written approval. The person taking the action must comply with any such request. The revised approved monitoring/management plan must be implemented. Unless the Minister has approved the revised management/monitoring plan, the person taking the action must continue to implement the management/monitoring plan originally approved, as specified in the conditions.			✓	To date no request for specific variation to the approved monitoring/management plans have been received from the Minister.
11	If at any time after 5 years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.			✓	This is not relevant as the stormwater return dam has been deemed operational, and handed over on the 1st September 2013.
12	Unless otherwise agreed to in writing by the Minister , the person taking the action must publish all management/monitoring plans referred to in these conditions of approval on their website. Each management/monitoring plan must be published on the website within 1 month of being approved.			✓	Publishing the monitoring/management plans on a website is the responsibility of Adani Abbot Point Terminal Pty Ltd, the proponent of the approval, as highlighted in the OEMP.

Table 3-1 - Condition and compliance assessment

4 Document Information

4.1 Change information

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in *Table 4-1* below.

Version	Date	Change Details
1.0	18 th December 2014	Developed compliance checklist and monitoring data review
2.0	21 st December 2016	Additional information regarding the OEMP changes

Table 4-1 – Change information