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	Name	Position	Signature	Date
Prepared	Russell Churchett	Environmental Manager	Document will be signed post DEHP review and determination	
Reviewed	Simon Mewing	Chief Operating Officer		
Approved	Mike Hughes	Chief Executive Officer		

HISTORY

Rev	Date	Rev Description	Rev Author
1	14/08/11	First Issue	J. Crooks
4	01/02/12	DERM Approved TEP (Reference 358477/BNE40048-5)	R. Churchett
5	19/04/13	TEP Amendment (A) Application	R. Churchett
9	31/07/13	DEHP Approved TEP Amendment (Amendment A)	R. Churchett
9	21/05/14	TEP Amendment (B) – Draft 1	R. Churchett
12	18/07/2014	TEP Amendment (B) – Final	R Churchett
13	17/10/2014	TEP Amendment (C) – Draft 1	R. Churchett
14	31/10/2014	TEP Amendment (C) – Submission to DEHP	R. Churchett

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1. Objectives and Scope

This Transitional Environmental Program (TEP) aims to address transitional arrangements for bringing dam construction standards for the Meridian Seam Gas Fields within PL94 into compliance with the Environmental Authority (EA) (Originally PEN102216711, amended and updated to EPPG00783713 on 19 June 2013) conditions (C25)-(C27), C11 and C12, relating to new construction requirements for evaporation, aggregation and brine dams as follows:

- (C25) All **existing aggregation dams** must meet the requirements of condition (C11) by 1 October 2011.
- (C26) All **existing brine dams** must meet the requirements of condition (C12) by 1 October 2011.
- (C27) All **existing coal seam gas evaporation dams** must meet the requirements of conditions (C11) or (C12), relevant to its intended use, by 1 October 2011.
- (C11) All **aggregation dams** must:
 - (a) be designed with a floor and sides of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during its operational life including any period of decommissioning and **rehabilitation**; and
 - (b) have a system that will detect any passage of the wetting front or entrained contaminants through the floor or sides of the **dam**.
- (C12) All **brine dams** must:
 - (a) be designed with a floor and sides of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during its operational life including any period of decommissioning and **rehabilitation**; and
 - (b) have a system that will detect any passage of the wetting front or entrained contaminants through the floor or sides of the **dam**; and
 - (c) have a system for the collection and proper disposal of any contaminants that move beyond the bounds of the containment system.

2. Compliance Actions and Performance Indicators

As per the original compliance program, WestSide will continue to provide a summary of Key Performance Indicator (KPI) achievements via Milestone Reports to DEHP. Table 3 (below) provides the original TEP milestone, key action reporting schedule, updated with the actual status of all milestone dates already met.

Table 3: TEP Compliance Table.

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
1	Complete Site Water Balance	Complete Site Water Balance	Site Water Balance Report – Final submitted to DERM	2 April 2012	n/a	Completed: KPI met by Original TEP Due Date
2	Develop Detailed Infrastructure Specifications	Detail Infrastructure Specifications	Detailed Infrastructure Specifications Report – Final submitted to DERM	30 April 2012	n/a	Completed: KPI met by Original TEP Due Date
3	Plant & Infrastructure Procurement	Procurement of Plant & Infrastructure	Milestone Report 1 submitted to DERM containing procurement agreements for required Plant & Infrastructure	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
4	Cultural Heritage Approval	Obtain Cultural Heritage Approval for new infrastructure sites	Milestone Report 1 submitted to DERM containing Initial Cultural Heritage Investigation Report and Cultural Heritage Management Strategy Agreement.	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
5	Landowner Approval	Obtain Landowner Approval for new infrastructure sites	Milestone Report 1 submitted to DERM containing Executed Conduct and Compensation Agreements.	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
6	Source & Engage Construction Contractors	Tender documents developed Engage Construction Contractors and proposals received Contracts awarded.	Milestone Report 1 submitted to DERM confirming construction contracts finalised	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
7	Sludge Remediation Lab Trial	Provide Remediation Lab Trial report to DEHP	Submission of report to DEHP	20 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
8	Sludge Remediation Field Trial	Provide Remediation Lab Trial report to DEHP	Submission of report to DEHP	18 December 2013 (B)	n/a	Completed: KPI met by Amendment A Completion Date
9	Ginnery Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	24 January 2013	n/a	Completed: KPI met by Original TEP Due Date
10	Ginnery Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	Originally 29 March 2013 DEHP Approved change to 25 January 2013	n/a	Completed: KPI met by Amended Due Date
11	Ginnery Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Ginnery Dam remediation planning and works status.	25 July 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
12	Ginnery Dam: Wet weather Preparations	Implement measures to minimise the collection of and holding time of rain water within Dam.	Written notification to DEHP	01 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
13	Ginnery Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation planning and works status.	25 January 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
14	Ginnery Dam: Contamination Assessment, Rehabilitation Plan, Remediation and Rehabilitation of Dam	Complete remediation of Ginnery Dam so that EA EPPG00783713 Conditions (I9) are met; submit final report to EHP demonstrating the requirements of Condition (I9) have been met. Obtain EHP approval for handover to landholder or Earthworks program completed in accordance with the rehabilitation plan.	Milestone Report 3 submitted to DERM containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	Originally 20 June 2013 DEHP Approved change to 25 April 2013 Amended to 31 May 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
15	Mungi 9 Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	22 November 2012	n/a	Completed: KPI met by Original TEP Due Date
16	Mungi 9 Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	Originally 25 January 2013 DEHP Approved change to 15 March 2013	n/a	Completed: KPI met by Amended Due Date
17	Mungi 9 Dam: Wet weather Preparations	Implement measures to minimise the collection of and holding time of rain water within Dam.	Written notification to DEHP	01 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
18	Mungi 9 Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Mungi 9 Dam remediation planning and works status.	15 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
19	Mungi 9 Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Mungi 9 Dam remediation planning and works status.	15 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
20	Mungi 9 Dam: Contamination Assessment, Rehabilitation Plan, Remediation and Rehabilitation of Dam	Complete remediation of Mungi 9 Dam so that EA EPPG00783713 Conditions (I9) are met; submit final report to EHP demonstrating the requirements of Condition (I9) have been met. Obtain EHP approval for handover to landholder or Earthworks program completed in accordance with the rehabilitation plan.	Milestone Report 4 submitted to DERM containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	Originally 25 April 2013 DEHP Approved change to 20 June 2013 Amended to: 15 April 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
21	Nippan Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	28 March 2013	n/a	Completed: Original KPI Due Date Met
22	Nippan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nippan Dam dewatering and sludge treatment preparations	30 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
23	Nippan Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	01 November 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
24	Nipan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nipan Dam dewatering and sludge treatment preparations	30 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
25	Nipan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nipan Dam sludge treatment	30 August 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
26	Nipan Dam: Rehabilitation Works Physical Completion	Complete remediation of Nipan Dam so that EA EPPG00783713 Conditions (19) are met;	Milestone Report: Written notification of completed earthworks and supporting photographs	31 October 2014 (A)	Action Cancelled New Action Replaces this action	Action Cancelled New Action Replaces this action
27	Nipan Dam: Rehabilitation Works Completion Report	Submit final report to EHP demonstrating the requirements of Condition (19) have been met.	Milestone Report: Containing: Full rehabilitation report, validation sampling results	15 December 2014 (B)	Action Cancelled New Action Replaces this action	Action Cancelled New Action Replaces this action
26	Nipan Dam: Compliance Conversion	Compliance Conversion / Engineering Plan to EHP	Milestone Report: Compliance Conversion / Engineering Plan	n/a	31 March 2015	New action / KPI
27	Nipan Dam: Compliance Conversion	Progress report submission	Progress report, containing progress detail of Nipan Dam compliance conversion project engineering and execution plan	n/a	31 October 2015	New action / KPI

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
27	Nipan Dam: Compliance Conversion	Progress report submission	Progress report, containing progress detail of Nipan Dam compliance conversion	n/a	31 March 2016	New action / KPI
28	Nipan Dam: Compliance Conversion	Compliance Conversion Completion; Nipan Dam converted to compliant Aggregation Dam	Milestone Report: Compliance Conversion Completion Report	n/a	31 July 2016	New action / KPI
29	Dawson Dam: Engineering Design	Progress report submission	Progress report, containing detail of Dawson Dam engineering design status	30 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
30	Dawson Dam: Engineering Design	Progress report submission	Progress report, containing detail of Dawson Dam engineering design status	31 January 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
31	Dawson Dam: Engineering Design	Finalise engineering design and construction plan	Report, containing detail of Dawson Dam engineering design and construction plan	31 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
32	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 Sep 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
32	Dawson Dam: Full Rehabilitation Planning	Full dam site rehabilitation procedure development	Further analysis of analogue sites (over and above initial sediment sampling) currently in progress Field survey and deep soil profile sampling conducted 14-16 May 2014 Prior soil remediation trial resulted in not proceeding with remediation method Remediation method to be based on analogue site analysis results and Nippan Dam rehabilitation process analysis	31 Dec 2014 (B)	n/a	On schedule
33	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 March 2015 (B)	n/a	On schedule
34	Dawson Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	30 April 2015 (C)	28 February 2016	Updated Completion Date
36	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 Sep 2015	n/a	On schedule

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
37	Dawson Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	2 August 2013 Amended to 31 Mar 2016 (B)	31 July 2016	Updated Completion Date
38	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	31 July 2016	n/a	On schedule
42	Dawson Dam: Rehabilitation Works Physical Completion and Completion Report	Full rehabilitation and remediation of Dawson Dam	Milestone Report: Containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	24 October 2013 (original TEP / action has been amended) Amended to 31 October 2016 (B)	n/a	On schedule
43	MR30 Evaporation Pond: Contamination Assessment	Contamination assessment report submission	Contamination assessment report, containing detail of pond rehabilitation process.	31 August 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date
44	MR30 Evaporation Pond: Rehabilitation Works Physical Completion	Complete remediation of MR30 Evaporation Pond Dam so that EA EPPG00783713 Conditions (I9) are met;	Milestone Report: Written notification of completed earthworks and supporting photographs	31 October 2014 (B)	n/a	On schedule

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A) & (B) Completion Dates	Amendment (C) Completion Date	Comment / Update Status
45	MR30 Evaporation Pond: Rehabilitation Works Completion Report	Submit final report to EHP demonstrating the requirements of Condition (19) have been met.	Milestone Report: Full rehabilitation report, validation sampling results,	15 December 2014 (B)	n/a	On schedule
46	Leak Detection Monitoring	Leak detection bores inspected monthly for Nipan and Dawson Dam while water remains in these dams: Nipan Dam Leak Detection Bore 1 (Lat -24.736352; Long 149.998613), Dawson Dam Leak Detection Bore 1 (Lat -24.799224; Long 150.010386), Dawson Dam Leak Detection Bore 1 (Lat -24.798822; Long 150.011907),	The results of this inspection to be reported to EHP by the last business day of the month to advise if the leak detection bores have detected passage of the wetting front through the floor or sides of this dam.	Monthly commencing July 2013 (A)	Commenced / ongoing	Continue monitoring

3. Monitoring Compliance and Reporting

Compliance to the actions of this TEP shall be monitored and reported as detailed in the dates of the compliance table (Table 3).

All progress and milestone reports are provided to the DEHP by the due dates as detailed; in writing with an electronic copy also provided