

Report

# **Ministerial Statement 871: Compliance Assessment Report**

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## **Christmas Creek Water Management Scheme**




**March 2012  
CC-RP-HY-0024\_Rev 0**



**Fortescue**  
The New Force in Iron Ore

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## EXECUTIVE SUMMARY

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This compliance assessment report (CAR) was prepared to meet the reporting requirements of Fortescue Metals Group Limited's (Fortescue) Office of the Environmental Protection Authority (OEPA) approved compliance assessment plan (CAP) of MS 871, which was granted for the implementation of the Christmas Creek Water Management Scheme (involving re-injection of dewatered water into local aquifers).

An audit of compliance with MS 871 conditions was undertaken in this CAR, with no non-compliances identified for the reporting period.

The project was not substantially commenced during 2011 and therefore several conditions of MS 871 were not required to be met at the stage of the project during the reporting period.

The majority of required baseline monitoring data was collected during the reporting period and reported via Fortescue's website or this CAR.

A change to the CAP relating to reporting periods of required groundwater data from a calendar year to Fortescue's 'water year' was proposed in the review of the assessment plan.

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## 1. INTRODUCTION

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This compliance assessment report (CAR) has been prepared to meet the reporting requirements of the compliance assessment plan (CAP) developed by Fortescue Metals Group Limited (Fortescue), and approved by the Office of the Environmental Protection Authority (OEPA) on 1 November 2011 (LR-100-E-3041), for Ministerial Statement 871 (MS 871). MS 871 was issued for the Christmas Creek Water Management Scheme (CCWMS) (the Project) on 1 August 2011 the Project involves the construction and implementation of infrastructure to allow dewatering and re-injection of dewatered water back into local aquifers.

A CAR is required to be submitted annually to the OEPA and made publicly available under the approved CAP by 31 March each year. This document covers the reporting period from the date of approval of the proposal to the end of the 2011 calendar year (1 August 2011 to 31 December 2011). Although the first CAR was due 1 November 2012, Fortescue requested an earlier submission date from the OEPA for the initial CAR, to coincide with the reporting periods of Fortescue's existing Ministerial Statements.

The purpose of the CAR is to

- Review and comment on Fortescue's compliance against each condition of MS 871;
- Identify and report on any non-compliance noted by the compliance assessment;
- Identify any remedial action that has been taken, or is required to be taken, to mitigate the noncompliance; and
- Identify any corrective measures implemented to reduce the potential for re-occurrence of the non-compliance.

During the reporting period the Project was not substantially commenced, however some initial construction works undertaken were:

- Fitting of headworks and tie-in to existing bulk pipeline at the Hillside East Extension project area; and
- Fitting of headworks and tie-in to existing bulk pipeline at the Spinifex injection borefield project area.

Dewatering and reinjection testing and commissioning commenced towards the end of the reporting period at the aforementioned project areas in consultation with the Department of Environment and Conservation (DEC) with a view to gaining the appropriate *Environmental Protection Act 1986* Part V operating licence for the project.

The major construction components of the project will commence in early 2012.

The compliance audit of MS 871 for the reporting period is presented in Table 1.

## 2. COMPLIANCE AUDIT

**Table 1: Compliance Audit of Ministerial Statement 871**

Note:

- Phases that apply in this table = Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases).
- This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition, P = Proponent's commitment.
- Acronyms list: CAP = Compliance Assessment Plan; CAR = Compliance Assessment Report; CEO = Chief Executive Officer of OEPA; DEC = Department of Environment and Conservation; DIA = Department of Indigenous Affairs; DMP = Department of Mining and Petroleum; DoH = Department of Health; DoW = Department of Water, EPA = Environmental Protection Authority; FMGL = Fortescue Metals Group Limited, Minister for Env = Minister for the Environment; OEPA = Office of the Environmental Protection Authority.
- Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non – compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Process are only for OEPA use.

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M1.1	Proposal Implementation	The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.	Compliance assessment	CAR	Continual for duration of project.	See 2011 CAR (this document)	C
871:M2.1	Proponent Nomination and Contact Details	The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the <i>Environmental Protection Act 1986</i> is responsible for the implementation of the proposal.	Compliance assessment		Continual for duration of project.	Fortescue remains the proponent responsible for the implementation of the project.	C
871:M2.2	Proponent Nomination and Contact Details	The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.	Letter notifying the CEO of any change in proponent details. Compliance assessment	Copies of correspondence. CAR	Within 30 days of any change.	Name and address of the proponent remain unchanged.	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M3.1	Time Limit of Authorisation	The authorisation to implement the proposal provided for in this statement shall lapse and be void five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.	Compliance assessment	Copies of correspondence.	Continual for duration of project.	Verification required prior to July 2016.	NR
871:M3.2	Time Limit of Authorisation	The proponent shall provide the Chief Executive Officer of the Office of the Environmental Protection Authority with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement	Letter notifying the CEO that the proposal has substantially commenced and providing evidence. Compliance assessment	Copies of correspondence. CAR	Within 5 years of issue of the Ministerial Statement.	Verification required prior to August 2016.	NR
871:M4.1	Compliance Reporting	The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority	Provision of CAP to OEPA and modification as required.	Copies of correspondence advising of satisfaction with CAP. Approved CAP	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	CAP prepared; approval of the CAP was received from the OEPA on 1/11/2011 (LR-100-E-3041).	C
871:M4.2.0	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1 at least six months prior to the first compliance report required by condition 4-6, or prior to implementation, whichever is sooner.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	CAP submitted to OEPA on 30/09/2011 (LS-100-E-2562), amended CAP submitted on 24/10/2011, OEPA approved CAP on 1/11/2011 (LR-100-E-3041).	CLD



Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M4.2.1	Compliance Reporting	The compliance assessment plan shall indicate the frequency of compliance reporting.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD
871:M4.2.2	Compliance Reporting	The compliance assessment plan shall indicate the approach and timing of compliance assessments.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD
871:M4.2.3	Compliance Reporting	The compliance assessment plan shall indicate the method of reporting of potential non-compliances and corrective actions taken.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD
871:M4.2.4	Compliance Reporting	The compliance assessment plan shall indicate the retention of compliance assessments.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M4.2.5	Compliance Reporting	The compliance assessment plan shall indicate the table of contents of compliance assessment reports.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD
871:M4.2.6	Compliance Reporting	The compliance assessment plan shall indicate public availability of compliance assessment reports.	Provision of CAP to OEPA and modification as required.	CAP Copies of correspondence.	By 1 February 2012, or prior to ground disturbing activities (whichever is sooner).	Included in CAP, refer to M4.1	CLD
871:M4.3	Compliance Reporting	The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.	Compliance assessment	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Refer to 2011 CAR (this document)	C
871:M4.4	Compliance Reporting	The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the Chief Executive Officer of the Office of the Environmental Protection Authority	Retain and make available all compliance assessments.	CAR		Copies of annual CARs and other compliance assessments are stored electronically in the Fortescue document management system.	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M4.5	Compliance Reporting	The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance within seven days of that non-compliance being known.	Documented notification of the CEO of any potential non-compliance.	Copies of correspondence. CAR	Within 7 days of that non-compliance being known.	No identified non-compliances occurred during this reporting period.	C
871:M4.6.1	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf.	Compliance assessment.	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Refer to Fortescue 2011 AER	C
871:M4.6.2	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall include a statement as to whether the proponent has complied with the conditions	Compliance assessment.	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Refer to 2011 CAR (this document).	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M4.6.3	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall identify all potential non-compliances and describe corrective and preventative actions taken	Compliance assessment.	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Refer to 2011 CAR (this document).	C
871:M4.6.4	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall be made publicly available in accordance with the approved compliance assessment plan	Compliance assessment.	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	2011 CAR report publicly available at: <a href="http://www.fmg.com.au/our_commitment/Environment/Environment_Library">www.fmg.com.au/our_commitment/Environment/Environment_Library</a>	C
871:M4.6.5	Compliance Reporting	The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall indicate any proposed changes to the compliance assessment plan required by condition 4-1.	Compliance assessment.	CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	The 2011 CAR (this document) proposes changes in Section 4: Review of Assessment Plan to the CAP.	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M5.1	Flora	The proponent shall ensure that construction of the infrastructure and implementation and operation of the proposal does not cause the loss of Declared Rare Flora, Priority 1 Flora and Priority 2 Flora unless otherwise approved by the Chief Executive Officer of the Office of the Environmental Protection Authority on advice of the Department of Environment and Conservation	Design and operate mine so as to prevent loss of Declared Rare or Priority 1 and 2 fauna. Request permissions from CEO for disturbance of fauna if necessary	Survey results		Targeted flora surveys are undertaken prior to ground disturbance and the results submitted to the OEPA. The first targeted flora survey results of the project area were submitted to the OEPA on 21 November 2011 (LS-100-E-2598).	C
871:M5.2	Flora	Prior to ground disturbing activities the proponent shall undertake targeted surveys of the area proposed for water conveyance infrastructure in accordance with Guidance Statement 51 Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia to identify the locations of any Declared Rare Flora, Priority 1 Flora and Priority 2 Flora species.	Conduct surveys	Survey reports	Prior to ground disturbance	The first targeted flora survey results of the project area were submitted to the OEPA on 21 November 2011 (LS-100-E-2598). Further targeted surveys are planned for 2012 and results will be submitted to the OEPA prior to ground disturbance. No ground disturbance occurred during the reporting period under MS 871.	C
871:M5.3	Flora	The proponent shall record and provide the Australian Map Grid co-ordinates and population details for each occurrence of Declared Rare Flora, Priority 1 Flora and Priority 2 Flora species to the Chief Executive Officer of the Office of the Environmental Protection Authority and the Chief Executive Officer of the Department of the Environment and Conservation within three months of completion of the surveys required by condition 5.2	Record and report results	Survey reports	Within three months of completion of surveys	The first targeted flora survey results of the project area were submitted to the OEPA on 21 November 2011 (LS-100-E-2598). Further targeted surveys are planned for 2012 and results will be submitted to the OEPA within three months of completion.	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M6.1	Groundwater Mounding	Subject to meeting the requirements of conditions 8.1 the proponent shall manage the injection of surplus water to ensure that mounding of the groundwater level within the impact zones but outside the exclusion area, as delineated by Australian Map Grid co-ordinates provided in Schedule 2 and Schedule 3 does not result in groundwater levels rising within 2 metres of the surface, unless the prior written authorisation of the Chief Executive Officer of the Office of the Environmental Protection Authority has been received.	Undertake injection in accordance with Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002)	Monitoring reports		Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M6.2.1	Groundwater mounding	To verify that the requirements of condition 6.1 are being met the proponent shall undertake baseline monitoring of the groundwater levels at locations determined in consultation within the Department of Water and the Department of Environment and Conservation.	Conduct baseline and groundwater level monitoring	Monitoring reports		Baseline groundwater level monitoring conducted. The report <i>Christmas Creek Quarterly Groundwater Monitoring Summary 1 August 2011 – 31 October 2011</i> provides baseline groundwater data for the reporting period. In conjunction with this data, additional data for the sites outlined in Condition 7-1 of MS 871 are presented in the 2011 CAR (this document).	C
871:M6.2.2	Groundwater mounding	To verify that the requirements of condition 6.1 are being met the proponent shall monitor groundwater levels monthly at a minimum at the locations identified in condition 6.2.1	Conduct groundwater level monitoring	Monitoring reports		Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M6.3	Groundwater mounding	The proponent shall submit annually the results of monitoring required by condition 6.2 to the Chief Executive Officer of the Office of the Environmental Protection Authority.	Include monitoring results in CAR	Monitoring reports in CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Baseline monitoring data (M6.21) supplied to OEPA in the form of <i>Christmas Creek Quarterly Groundwater Monitoring Summary 1 August 2011 – 31 October 2011</i> and the 2011 CAR (this document). Monthly monitoring not required at this stage as injection of surplus water with respect to MS 871 did not occur during the reporting period.	C
871:M6.4.1	Groundwater mounding	In the event that the monitoring required by condition 6.2 indicates that the requirements of condition 6.1 are not being met, the proponent shall report such findings to the Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of an unacceptable change in water levels being identified.	Notify the CEO within 7 days of the impact being identified	Notification of impact. Copies of correspondence	Within 7 days of unacceptable change in water level being identified	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M6.4.2	Groundwater mounding	In the event that the monitoring required by condition 6.2 indicates that the requirements of condition 6.1 are not being met, the proponent shall provide evidence which allows determination of the root cause of the unacceptable change in water levels within 21 days of an unacceptable change in water levels being identified	Undertake root cause analysis as part of incident notification report	Incident notification report	Within 21 days of an unacceptable change in water level being identified.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M6.4.3	Groundwater mounding	In the event that the monitoring required by condition 6.2 indicates that the requirements of condition 6.1 are not being met, the proponent shall, if determined to be a result of water injection, state the actions and associated timelines proposed to remediate the groundwater levels within 21 days of an unacceptable change in water levels being identified.	Specify remedial actions in Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002) and Dewatering and ReInjection Plan	Remedial Action Plan	Within 21 days of the unacceptable change in water levels being identified, if determined to be a result of water injection.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M6.5	Groundwater mounding	The proponent shall on approval of the Chief Executive Officer of the Office of the Environmental Protection Authority, in consultation with the Department of Water and the Department of Environment and Conservation, implement the actions identified in condition 6.4.3 and continue to implement such actions until the Chief Executive Office of the Office of the Environmental Protection Authority determines that the remedial actions may cease.	Undertake remedial action in accordance with Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002)	Implementation Report	From time of approval by the DEC and until such time as the DEC determines that the remedial actions may cease.	Injection of surplus water with respect to Ministerial Statement 871 did not occur during the reporting period.	NR
871:M6.6	Groundwater mounding	The proponent shall make the monitoring reports required by condition 6.2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.	Make reports publicly available through the FMG website ( <a href="http://www.fmg.com.au">www.fmg.com.au</a> )	Copy of relevant reports on FMG website	Annually by 31 March (covering previous calendar year)	<i>Christmas Creek Quarterly Groundwater Monitoring Summary 1 August 2011 – 31 October 2011</i> and the 2011 CAR (this document) publicly available at: <a href="http://www.fmg.com.au/our_commitment/Environment/Environment_Library">www.fmg.com.au/our_commitment/Environment/Environment_Library</a> .	C
871:M7.1	Fortescue Marsh	The proponent shall manage the injection of surplus water to ensure that groundwater levels do not rise more than 1.5 metres at MB1 and 1 metre at MB2, MB3 and MB4 from the baseline groundwater levels.	Inject groundwater in accordance with Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002)	Monitoring reports		Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR



Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M7.2.1	Fortescue Marsh	To verify that the requirements of condition 7.1 are being met the proponent shall, to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority, undertake baseline monitoring at MB1, MB2, MB3 and MB4. Locations MB1, MB2, MB3 and MB4 and identified in Table 1 of Schedule 4.	Undertake baseline monitoring	Monitoring reports		Baseline monitoring results of MB1, MB2, MB3 and MB4 are presented in the 2011 CAR (this document).	C
871:M7.2.2	Fortescue Marsh	To verify that the requirements of condition 7.1 are being met the proponent shall, to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority, establish trigger levels at locations identified in condition 7.2.1 having regard for seasonal variation.	Establish trigger levels within Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002)	Monitoring report		Trigger levels established in <i>Christmas Creek Groundwater Operating Strategy (CC-PH-HY-0002)</i> .	C
871:M7.2.3	Fortescue Marsh	To verify that the requirements of condition 7.1 are being met the proponent shall, to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority, monitor groundwater levels monthly at a minimum at locations identified in condition 7.2.1.	Undertake monthly groundwater level monitoring	Monitoring reports		Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M7.3	Fortescue Marsh	The proponent shall submit annually the results of monitoring required by condition 7.2 to the Chief Executive Officer of the Office of the Environmental Protection Authority.	Include monitoring results as part of CAR	Monitoring report, CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Monthly monitoring results of sites outlined in Condition 7.2.1 of MS 871 are presented in the 2011 CAR (this document).	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M7.4.1	Fortescue Marsh	In the event that the monitoring required by condition 7.2 indicates that the requirements of condition 7.1 are not being met, the proponent shall report such findings to the Chief Executive Officer of the Office of the Environmental Protection Authority within 21 days of any unacceptable change in water levels as required by condition 7.1 being identified.	Notify the CEO within 7 days of the unacceptable change in water level being identified	Notification of impact. Copies of correspondence	Within 7 days of unacceptable change in water level being identified	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M7.4.2	Fortescue Marsh	In the event that the monitoring required by condition 7.2 indicates that the requirements of condition 7.1 are not being met, the proponent shall provide evidence which allows determination of the root cause of the unacceptable change in water levels.	Provide evidence of root cause of unacceptable change in water level	Copies of correspondence		Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M7.4.3	Fortescue Marsh	In the event that the monitoring required by condition 7.2 indicates that the requirements of condition 7.1 are not being met, the proponent shall, if determined to be a result of injection, state the actions and associated timelines proposed to remediate the groundwater levels.	Remedial Action Plan	Remedial Action Plan	If determined to be a result of water injection.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M7.5	Fortescue Marsh	The proponent shall on approval of the Chief Executive Officer of the Office of the Environmental Protection Authority, implement the actions identified in condition 7.4.3 and continue to implement such actions until the Chief Executive Officer of the Officer of the Environmental Protection Authority determines that the remedial actions may cease.	Implement approved Remedial Action Plan.	Implementation Report	From time of approval by the DEC and until such time as the DEC determines that the remedial actions may cease.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M7.6	Fortescue Marsh	The proponent shall make the monitoring reports required by condition 7.3 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.	Make reports publicly available through the FMG website (www.fmg.com.au)	Copy of relevant reports on FMG website	Annually by 1 November	2011 CAR (this document) available at FMG website at: <a href="http://www.fmg.com.au/our_commitment/Environment/Environment_Library">www.fmg.com.au/our_commitment/Environment/Environment_Library</a>	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M8.1.1	Vegetation Monitoring	The proponent shall manage groundwater abstraction and disposal (dewatering and injection) for the project in a manner that ensures there is no adverse impact on native vegetation communities attributable to the project outside the predicted impact areas.	Manage groundwater abstraction and disposal	Monitoring reports		<i>Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)</i> implemented during reporting period, refer to 2011 CAR (this document).	C
871:M8.1.2	Vegetation Monitoring	The proponent shall manage groundwater abstraction and disposal (dewatering and injection) for the project in a manner that ensures within the proposed impact areas there is no mortality of keystone plant species or significant changes in habitat characteristics attributable to the project.	Manage groundwater abstraction and disposal	Monitoring reports		Dewatering and injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M8.2	Vegetation Monitoring	Prior to the reinjection of surplus water and in consultation with the Department of Environment and Conservation, the proponent shall prepare a Vegetation Health Monitoring and Management Plan for the project area to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority to verify and ensure that the requirements of condition 8.1 shall be met.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	<i>Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)</i> prepared and submitted on 03/10/2011 (LS-100-E-2568), OEPA approved plan 12/10/2011 (LR-100-E-3000).	CLD
871:M8.3.1	Vegetation Monitoring	The Vegetation Health Monitoring and Management Plan shall include identification of keystone plant species and habitat characteristics and limits of acceptable change in health and/or condition of these to be used as the basis for monitoring.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	See 871:M8.2.	CLD
871:M8.3.2	Vegetation Monitoring	The Vegetation Health Monitoring and Management Plan shall include locations for predicted impact and reference monitoring sites (outside the predicted impact areas) for baseline and ongoing monitoring, with sites selected based on scientific rationale and to the satisfaction of the Department of Environment and Conservation.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	See 871:M8.2.	CLD

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M8.3.3	Vegetation Monitoring	The Vegetation Health Monitoring and Management Plan shall include results of baseline monitoring for vegetation health, species composition and habitat characteristics at both predicted impact and reference monitoring sites and groundwater levels and groundwater quality at agreed sites in proximity to the vegetation monitoring sites.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	See 871:M8.2.	CLD
871:M8.3.4	Vegetation Monitoring	The Vegetation Health Monitoring and Management Plan shall include specifications for the monitoring program for vegetation health, species composition and habitat characteristics, including trigger levels for additional management actions to prevent further impacts and ensure compliance with condition 8.1.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	See 871:M8.2.	CLD
871:M8.3.5	Vegetation Monitoring	The Vegetation Health Monitoring and Management Plan shall include specific management and contingency actions beyond reporting and initiating assessment.	Prepare a Vegetation Health Monitoring and Management Plan	Vegetation Health Monitoring and Management Plan	Prior to injection	See 871:M8.2.	CLD
871:M8.4	Vegetation Monitoring	The monitoring is to be carried out according to a method and schedule determined prior to the injection of surplus water to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority, and is to be carried out until such time as the Chief Executive Officer of the Office of the Environmental Protection Authority determines on advice from the Department of Environment and Conservation that monitoring may cease.	Conduct monitoring in accordance with CEO requirements	Monitoring reports	Prior to injection	Baseline vegetation survey undertaken prior to injection, refer to <i>Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)</i> . The next monitoring round is due to be undertaken in March 2012.	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M8.5.1	Vegetation Monitoring	In the event that monitoring required by condition 8.3 indicates an exceedance of trigger levels determines as a result of the implementation of the groundwater abstraction and disposal (dewatering and injection), the proponent shall report such findings to the Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of the exceedance being identified.	Notify the CEO within 7 days of the exceedance being identified	Notification of impact. Copies of correspondence	Within 7 days of the exceedance being identified	Dewatering and injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M8.5.2	Vegetation Monitoring	In the event that monitoring required by condition 8.3 indicates an exceedance of trigger levels determines as a result of the implementation of the groundwater abstraction and disposal (dewatering and injection), the proponent shall provide evidence which allows determination of the cause of the exceedance within 21 days of the exceedance being identified.	Incident notification report	Incident notification report	Within 21 days of the exceedance being identified.	Dewatering and injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M8.5.3	Vegetation Monitoring	In the event that monitoring required by condition 8.3 indicates an exceedance of trigger levels determines as a result of the implementation of the groundwater abstraction and disposal (dewatering and injection), if determine by the Chief Executive Officer of the Office of the Environmental Protection Authority to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to address the exceedance within 21 days of the determination being made to the Chief Executive officer of the Office of the Environmental Protection Authority.	Remedial Action Plan	Remedial Action Plan	Within 21 days of the exceedance being identified, if determined to be as a result of the implementation of the groundwater abstraction and disposal.	Dewatering and injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M8.5.4	Vegetation Monitoring	In the event that monitoring required by condition 8.3 indicates an exceedance of trigger levels determines as a result of the implementation of the groundwater abstraction and disposal (dewatering and injection), the proponent shall implement actions to address the exceedance upon approval of the Chief Executive Officer of the Office of the Environmental Protection Authority and shall continue until such time the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.	Implement approved Remedial Action Plan.	Implementation Report	From time of approval by the DEC and until such time as the DEC determines that the remedial actions may cease.	Dewatering and injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M8.6	Vegetation Monitoring	The proponent shall implement the Vegetation Health Monitoring and Management Plan required by condition 8.2	Implement Vegetation Health Monitoring and Management Plan	CAR		<i>Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)</i> implemented, refer to 2011 CAR (this document).	C
871:M8.7	Vegetation Monitoring	The proponent shall make the Vegetation Health Monitoring and Management Plan required by condition 8-2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.	Make plan publicly available through the FMG website (www.fmg.com.au)	Copy of plan on FMG website		<i>Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)</i> publicly available at: <a href="http://www.fmg.com.au/our_commitment/Environment/Environment_Library">www.fmg.com.au/our_commitment/Environment/Environment_Library</a>	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M9.1	Removal of fauna from open trenches	The proponent shall ensure that open trenches associated with construction of the pipelines are cleared of trapped fauna by fauna-rescue personnel twice daily at a minimum. Details of all fauna recovered shall be recorded, consistent with condition 9-5. The first daily clearing shall take place by foot no later than three hours after sunrise and shall be repeated between the hours of 3:00 pm and 6:00 pm. The open trenches shall also be cleared by fauna-rescue personnel on foot, and fauna details recorded, by fauna-rescue personnel no more than one hour prior to backfilling of trenches.	Ensure appropriate management of trenches for pipeline construction	Monitoring reports	During trenching for pipeline construction	No trenching was undertaken during the reporting period.	NR
871:M9.2.1	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in fauna identification, capture and handling (including specially protected fauna and venomous snakes likely to occur in the area).	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD
871:M9.2.2	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in identification of tracks, scats, burrows, and nests of conservation significant species.	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD
871:M9.2.3	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in fauna vouchering (of deceased animals).	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M9.2.4	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in assessing injured fauna for suitability for release, rehabilitation or euthanasia.	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD
871:M9.2.5	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in familiarity with the ecology of the species which may be encountered in order to be able to appropriately translocate fauna encountered.	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD
871:M9.2.6	Removal of fauna from open trenches	The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the Wildlife Conservation Act 1950 and be trained in performing euthanasia.	Ensure fauna rescue personnel are appropriately trained	Copy of training certificates	During trenching for pipeline construction	Fortescue are no longer required to undertake this condition following notification from the OEPA (LS-100-E-2707).	CLD
871:M9.3	Removal of fauna from open trenches	The length of open trench at the conclusion of each day shall not exceed a length capable of being inspected on foot and cleared by the available fauna-clearing personnel within the times required as set out in condition 9-1 and shall remain open no longer than 90 days without prior approval of the Chief Executive Officer of the Office of the Environmental Protection Authority.	Ensure appropriate management of trenches	Monitoring/inspection reports	During trenching	No trenching was undertaken during the reporting period.	NR
871:M9.4	Removal of fauna from open trenches	Egress points and/or fauna refuges providing suitable shelter from the sun and predators for trapped fauna are to be placed in the trench at intervals not exceeding 50 metres.	Ensure appropriate management of trenches	Monitoring/inspection reports	During trenching	No trenching was undertaken during the reporting period.	NR



Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M9.5.1	Removal of fauna from open trenches	The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include details on when sections of the trench (or the entirety thereof) were opened and closed.	Submit report on fauna management	Fauna management report	Within 14 days of each calendar month during construction of the pipeline trench <b>and</b> a final report 21 days after completion of pipeline construction	No trenching was undertaken during the reporting period.	NR
871:M9.5.2	Removal of fauna from open trenches	The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include details of all fauna inspections	Submit report on fauna management	Fauna management report	Within 14 days of each calendar month during construction of the pipeline trench <b>and</b> a final report 21 days after completion of pipeline construction	No trenching was undertaken during the reporting period.	NR
871:M9.5.3	Removal of fauna from open trenches	The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include the number and type of fauna cleared from trenches.	Submit report on fauna management	Fauna management report	Within 14 days of each calendar month during construction of the pipeline trench <b>and</b> a final report 21 days after completion of pipeline construction	No trenching was undertaken during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M9.5.4	Removal of fauna from open trenches	The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include fauna mortalities.	Submit report on fauna management	Fauna management report	Within 14 days of each calendar month during construction of the pipeline trench <b>and</b> a final report 21 days after completion of pipeline construction	No trenching was undertaken during the reporting period.	NR
871:M9.5.5	Removal of fauna from open trenches	The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include all actions taken.	Submit report on fauna management	Fauna management report	Within 14 days of each calendar month during construction of the pipeline trench <b>and</b> a final report 21 days after completion of pipeline construction	No trenching was undertaken during the reporting period.	NR
871:M9.6	Removal of fauna from open trenches	The report required by condition 9-5 shall be provided to the Chief Executive Officer of the Office of the Environmental Protection Authority and the Department of Environment and Conservation and shall be made publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.	Provide copies of the reports to the CEO's of DEC and EPA and make reports on fauna management publicly available on the FMG website.	Correspondence to DEC/EPA and reports on FMG website		No trenching was undertaken during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M10.1	Reinjection impacts to other mines	The proponent shall manage the reinjection of surplus water to ensure that it does not cause a significant increase in dewatering requirements at other non-proponent approved mining operations.	Manage the reinjection of surplus water through compliance with Stakeholder Consultation Reinjection Management Plan	Monitoring reports, CAR	Annually, prior to 31 March (covering data collected over previous calendar year).	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.2.1	Reinjection impacts to other mines	To verify that the requirements of condition 10-1 are being met the proponent shall prepare a Stakeholder Consultation Reinjection Management Plan, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority prior to groundwater injection into the eastern brackish injection zone, as delineated by Australian Map Grid co-ordinates provided in Table 2 of Schedule 4, that includes potential issues resulting from the reinjection of the surplus water on other non-proponent mining operations, in consultation with the proponent of those affected mines, and proposed outcomes to ensure compliance with condition 10-1.	Prepare and meet Stakeholder Consultation Reinjection Management Plan	Stakeholder Consultation Reinjection Management Plan	Prior to reinjection into the eastern brackish zone	<i>Stakeholder Consultation Reinjection Management Plan (CC-EL-PN-0006)</i> prepared. Document approved by OEPA on 25/11/2011 (LR-100-E-3295).	CLD

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M10.2.2	Reinjection impacts to other mines	To verify that the requirements of condition 10-1 are being met the proponent shall prepare a Stakeholder Consultation Reinjection Management Plan, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority prior to groundwater injection into the eastern brackish injection zone, as delineated by Australian Map Grid co-ordinates provided in Table 2 of Schedule 4, that includes strategies, including trigger values, to address the potential issues and achieve the outcomes identified in condition 10-2.1 in consultation with the proponent of any potentially affected mines.	Prepare and meet Stakeholder Consultation Reinjection Management Plan	Stakeholder Consultation Reinjection Management Plan	Prior to reinjection into the eastern brackish zone	Refer to <i>Stakeholder Consultation Reinjection Management Plan (CC-EL-PN-0006)</i> .	C
871:M10.2.3	Reinjection impacts to other mines	To verify that the requirements of condition 10-1 are being met the proponent shall prepare a Stakeholder Consultation Reinjection Management Plan, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority prior to groundwater injection into the eastern brackish injection zone, as delineated by Australian Map Grid co-ordinates provided in Table 2 of Schedule 4, that includes detailed monitoring program to demonstrate that condition 10-2.2 is being met.	Prepare and meet Stakeholder Consultation Reinjection Management Plan	Stakeholder Consultation Reinjection Management Plan	Prior to reinjection into the eastern brackish zone	Refer to <i>Stakeholder Consultation Reinjection Management Plan (CC-EL-PN-0006)</i> .	C

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M10.2.4	Reinjection impacts to other mines	To verify that the requirements of condition 10-1 are being met the proponent shall prepare a Stakeholder Consultation Reinjection Management Plan, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority prior to groundwater injection into the eastern brackish injection zone, as delineated by Australian Map Grid co-ordinates provided in Table 2 of Schedule 4, that includes specific management and contingency actions.	Prepare and meet Stakeholder Consultation Reinjection Management Plan	Stakeholder Consultation Reinjection Management Plan	Prior to reinjection into the eastern brackish zone	Refer to <i>Stakeholder Consultation Reinjection Management Plan (CC-EL-PN-0006)</i> .	C
871:M10.3	Reinjection impacts to other mines	The monitoring as required by condition 10.2.3 is to be carried out until such time as the Chief Executive Officer of the Office of the Environmental Protection Authority determines that monitoring may cease.	Conduct monitoring	Monitoring reports	During reinjection	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.4.1	Reinjection impacts to other mines	In the event that monitoring required by condition 10.2.3 indicates an exceedance of trigger levels defined by condition 10.2.2, the proponent shall report such findings to Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of the exceedance being identified.	Notify the CEO within 7 days of the exceedance being identified	Notification of impact. Copies of correspondence	Within 7 days of the exceedance being identified	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.4.2	Reinjection impacts to other mines	In the event that monitoring required by condition 10.2.3 indicates an exceedance of trigger levels defined by condition 10.2.2, the proponent shall provide evidence which allows determination of the cause of the exceedance within 21 days of the exceedances being identified.	Incident notification report	Incident notification report	Within 21 days of the exceedance being identified.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR

Audit Code	Subject	Action	How	Evidence	When	2011 Verification	Status
871:M10.4.3	Reinjection impacts to other mines	In the event that monitoring required by condition 10.2.3 indicates an exceedance of trigger levels defined by condition 10.2.2, if determined by the Chief Executive Officer of the Office of the Environmental Protection Authority to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to address the exceedance within 21 days of the determination being made to the Chief Executive Officer of the Office of the Environmental Protection Authority.	Remedial Action Plan	Remedial Action Plan	Within 21 days of the exceedance being identified, if determined to be a result of activities undertaken in implementing the proposal.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.4.4	Reinjection impacts to other mines	In the event that monitoring required by condition 10.2.3 indicates an exceedance of trigger levels defined by condition 10.2.2, the proponent shall implement actions to address the exceedance upon approval of the Chief Executive Officer of the Office of the Environmental Protection Authority and shall continue until such time the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.	Implement approved Remedial Action Plan.	Implementation Report	From time of approval by the DEC and until such time as the DEC determines that the remedial actions may cease.	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.5	Reinjection impacts to other mines	The proponent shall implement the Stakeholder Consultation Reinjection Management Plan requirement by condition 10.2.	Implement the Stakeholder Consultation Reinjection Plan	Monitoring reports, CAR	During reinjection	Injection of surplus water with respect to MS 871 did not occur during the reporting period.	NR
871:M10.6	Reinjection impacts to other mines	The proponent shall make the Stakeholder Consultation Reinjection Management Plan required by condition 10.2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.	Make plan publicly available through the FMG website ( <a href="http://www.fmg.com.au">www.fmg.com.au</a> )	Copy of Plan on FMG website		<i>Stakeholder Consultation Reinjection Management Plan (CC-EL-PN-0006)</i> publicly available at: <a href="http://www.fmg.com.au/our_commitment/Environment/Environment_Library">www.fmg.com.au/our_commitment/Environment/Environment_Library</a>	C

**Table 2: Schedule 1 (Key Characteristics Table)**

Note:

- Phases that apply in this table = Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases).
- This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition, P = Proponent's commitment.
- Acronyms list: CAP = Compliance Assessment Plan; CAR = Compliance Assessment Report; CEO = Chief Executive Officer of OEPA; DEC = Department of Environment and Conservation; DIA = Department of Indigenous Affairs; DMP = Department of Mining and Petroleum; DoH = Department of Health; DoW = Department of Water, EPA = Environmental Protection Authority; FMGL = Fortescue Metals Group Limited, Minister for Env = Minister for the Environment; OEPA = Office of the Environmental Protection Authority.
- Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non – compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Process are only for OEPA use.

Element	Description	2011 Verification	Status
Project Life	Up to 5 years	Project has not significantly commenced	NR
Areas Disturbed	Up to 600 hectares (of the 10,135.5 approved hectares in Ministerial Statement 707)	No disturbance during reporting period	NR
Dewatering Rate	Up to 50 Gigalitres per annum	Dewatering has not yet commenced	NR
Re-injection Rate	Up to 42.5 Gigalitres per annum	Dewatering has not yet commenced	NR

### 3. DISCUSSION

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During the reporting period the project was not substantially commenced. The audit for MS 871 during the reporting period showed the following:

- Fortescue were compliant with all required ministerial conditions of MS 871 during the reporting period;
- Several conditions were 'not required' to be met during the reporting period, owing to the commencement status of the project; and
- Several pre-implementation conditions were completed during the reporting period and were audited as 'completed'.

The following sections provide the baseline environmental monitoring data required of MS 871, undertaken during the reporting period.

#### **Flora & Vegetation**

Targeted flora surveys were undertaken by ENV Australia at Christmas Creek as part of the environmental impact studies for the planned Christmas Creek expansion. These targeted studies covered a portion of the project area, where the initial construction and ground disturbance areas required by the project are located. The surveys were undertaken from 16-24 March and 28 April to 6 May 2011. The surveys found no Declared Rare Flora, Priority 1 or Priority 2 Flora within the targeted survey area. Results of this survey were reported to the OEPA (LS-100-E-2598). This survey meets the requirements for Condition 5 of MS 871 for the initial construction and disturbance footprint of a portion of the project.

During the targeted survey mentioned above, four species of Priority 1 and Priority 2 Flora were found opportunistically outside of the targeted survey area, in proximity to an additional portion of the project. Follow-up targeted surveys are planned for this area (south of the targeted study area) and will be reported to the OEPA in 2012 prior to ground disturbance in this southern section of the project area, which will meet the requirements for Condition 5 of MS 871 for the remaining portion of the project.

The *Vegetation Health Monitoring and Management Plan (CC-PL-EN-0004)* contains the results of the baseline monitoring required by Condition 8.4, this document is publicly available at [www.fmg.com.au/our\\_commitment/Environment/Environment\\_Library](http://www.fmg.com.au/our_commitment/Environment/Environment_Library).

#### **Groundwater Mounding & Fortescue Marsh**

In reference to Condition 6-2 of MS 871, through consultation with the DEC and DoW, it was confirmed that the current groundwater monitoring locations reported to the DoW in the quarterly groundwater monitoring summaries for the Christmas Creek area along with the four additional sites surrounding the edge of the Fortescue Marsh as depicted in Condition 7-1 of MS 871, were adequate for fulfilling site monitoring requirements for the project.



It was also confirmed that sufficient baseline data was contained in the quarterly reviews available at the time of writing to satisfy Condition 6.2.1 of MS 871. Baseline data for the monitoring sites is presented in the *Christmas Creek Quarterly Groundwater Monitoring Summary 1 August 2011 – 31 October 2011*, which has been uploaded to the Fortescue website at [www.fmgf.com.au/our\\_commitment/Environment/Environment\\_Library](http://www.fmgf.com.au/our_commitment/Environment/Environment_Library). Additionally, the baseline monitoring data for sites MB1-4 (as depicted in Condition 7-1 of MS 871) is presented in Appendix 1.

## 4. REVIEW OF ASSESSMENT PLAN

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Fortescue propose to alter the required date range of submitted groundwater data (both groundwater mounding and Fortescue Marsh monitoring) outlined in the CAP from 'calendar year' to 'water year' (1 August to 31 July), currently reported on to the DoW in line with our groundwater extraction licenses under the *Rights in Water and Irrigation Act 1914*.

This is proposed due to the agreed groundwater monitoring requirements with the DEC being already covered in the annual groundwater reports currently undertaken. As the reporting period of the water year does not align with the calendar year reporting period of MS 871, Fortescue propose to provide the required groundwater monitoring data on an annual basis to the OEPA based on the previous water year. It is hoped this approach will reduce duplication of reporting and still provide all necessary data required by MS 871.

This will not affect the notification requirements of Ministerial Conditions 6.4.1 or 7.4.1, which will still be adhered to throughout the calendar year reporting period.

Fortescue also propose to alter the submission date wording of 'prior to March 31<sup>st</sup>' to 'on or before March 31<sup>st</sup>'.

## Appendix 1: Baseline Monitoring Results for MB1-4



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Sample Point	Sample Date	SWL/SWL (mbrp)	Calc/Water Level mAHD (m)
<b>MB1</b> (CCFMM01_D)	07/10/2011 09:00:17	2.95	406.38
	15/11/2011 06:42:07	2.94	406.39
	08/12/2011 07:37:16	2.95	406.38
<b>MB1</b> (CCFMM01_S)	07/10/2011 13:01:17	4.05	405.35
	15/11/2011 06:42:07	4.10	405.30
	08/12/2011 07:37:16	4.13	405.27
<b>MB2</b> (CCFMM02_D)	06/10/2011 13:01:17	4.70	404.75
	15/11/2011 06:42:07	4.70	404.75
	05/12/2011 09:20:59	4.50	404.95
<b>MB2</b> (CCFMM02_S)	06/10/2011 13:01:17	3.48	406.04
	15/11/2011 06:42:07	3.45	406.07
	08/12/2011 07:37:16	3.48	406.04
<b>MB3</b> (CCFMM03_D)	07/10/2011 13:01:17	4.05	404.99
	15/11/2011 06:42:07	4.03	405.01
	08/12/2011 07:37:16	4.05	404.99
<b>MB3</b> (CCFMM03_S)	07/10/2011 13:01:17	4.44	404.74
	15/11/2011 06:42:07	4.10	405.08
	08/12/2011 07:37:16	4.21	404.97
<b>MB4</b> (CCFMM04_D)	15/11/2011 06:42:07	6.44	403.45
	08/12/2011 07:37:16	6.43	403.46
<b>MB4</b> (CCFMM04_S)	07/10/2011 11:45:17	4.84	405.08
	15/11/2011 06:42:07	4.73	405.19
	08/12/2011 07:37:16	4.62	405.30