



MOUNT GIBSON IRON

WATER MANAGEMENT PLAN GROUNDWATER OPERATING STRATEGY

Mount Gibson Iron

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TABLE OF ABBREVIATIONS

Term	Definition
CEO	Chief Executive Officer
DCCEEW	Department of Climate Change, Energy, Environment and Water
DWER	Department of Water and Environmental Regulation
DWQMP	Drinking Water Quality Management Plan
DMIRS	Department of Mines, Industry Regulation and Safety
DBCA	Department of Biodiversity, Conservation and Attractions
GM	General Manager
HSEC MS	Health, Safety, Environment and Community Management System
HSEC	Health, Safety, Environment and Community
KIO	Koolan Iron Operations
KIOP	Koolan Iron Ore Project
MGX	Mount Gibson Iron Ltd
MBGL	Metres Below Ground Level
MMP	Marine Management Plan
MAHD	Meters Australian Height Datum
OEPA	Office of the Environmental Protection Authority
OEMP	Operations Environmental Management Plan
WMP - GWOS	Water Management Plan – Groundwater Operating Strategy

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1. PURPOSE

The Water Management Plan – Groundwater Operating Strategy (GOS) provides a strategy for the operation, monitoring and reporting of groundwater abstraction associated with the Koolan Island Operations (KIO). The document should be read in conjunction with the Koolan Island Water Management Plan (WMP).

Borefield abstraction supplies water for both potable and non-potable uses such as the accommodation village, crushing and screening plant, dust suppression activities and associated administration, workshop and office facilities.

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2. SCOPE

The KIO operates pursuant to Ministerial Statement 715 (MS715) granted in accordance with the *Environmental Protection Act 1986* (WA). Condition 8 of MS715 requires a Water Management Plan, as follows:

- 8-1 *Prior to dewatering or groundwater abstraction, the proponent shall prepare a Water Management Plan to the requirements of the Minister for Environment on advice of the Environmental Protection Authority.*

The objective of this Plan is to maintain the quality and quantity of water so that existing and potential environmental values, including ecosystem maintenance are protected.

This Plan shall set out procedures to:

- 1. complete a hydrogeological investigation to determine the current quantity and quality of the groundwater aquifers of Koolan Island;*
- 2. model the current groundwater system and the short and long-term hydrogeological impacts of implementing the proposal;*
- 3. develop a Water Operating Strategy, incorporating the results of the hydrogeological investigation and modelling, in consultation with the Water and Rivers Commission, that includes:*
 - (1) appropriate dewatering and discharge rates;*
 - (2) monitoring of groundwater abstraction and discharge;*
 - (3) monitoring of groundwater quality and quantity;*
 - (4) methods to maximise water efficiency; and*
 - (5) measures of dewatering to achieve target groundwater levels*
- 4. manage and minimise impacts on the groundwater aquifers arising from implementation of the Proposal; and*
- 5. report on the management actions and monitoring results.*

Koolan Island is not a 'Proclaimed Area' under the *Rights in Water and Irrigation Act 1914* (WA) (RIWI Act) and, as such, licenses under sections 26D and 5C of the RIWI Act to construct/alter wells and abstract groundwater, are not required.

The GOS was originally developed using the Waters and Rivers Commission (WRC) '*Use of Operating Strategies in the Water Licensing Process*' (Statewide Policy No. 10-May 2004) and '*Guidelines for Hydrogeological Reports and Groundwater Monitoring Reports Associated with a Groundwater Well Licence*' (Version 10ab, May 1998).

In accordance with Condition 8-3 of MS715, KIO will implement the WMP and subsequent revisions to minimise the potential impacts on groundwater resources associated with the operation.

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3. PROJECT DETAILS

3.1 Site Summary

The KIO is operated by Koolan Iron Ore Pty Ltd, a wholly-owned subsidiary of Mount Gibson Iron Ltd (MGX), and is located 130 km northeast of Derby in the Buccaneer Archipelago off the Kimberley coast of Western Australia (Figure 1.).

KIO is a conventional open-cut mining operation with ore extraction occurring below sea level in Main Pit. Supporting infrastructure includes a crushing and screening plant having an approved production capacity of 5,000,000 tonnes of ore per annum together with a port facility with berthing and ore loading capability for bulk ore carriers. The operations area also has workshops, administration offices, laydown areas, bulk fuel facilities and electrical generation plants (Figure 2).

Mining operations re-commenced in late 2018 following the breach of the seawall and flooding of Main Pit in 2014. Capital dewatering from Main Pit occurred over a period of approximately 4 months prior to the commencement of routine mining, dewatering and processing operations. The current life of mine is three to five years.

During normal operations there are up to 350 staff and contractors employed with about 200 persons on-site at any one time. The KIO is a “Fly in Fly Out” operation and has a camp which can accommodate personnel and visitors with messing facilities and a sealed aerodrome.

3.2 Water Abstraction

Water abstraction is undertaken as part of the KIO for the purposes of mine pit dewatering (Main Pit) as well as supply of potable and non-potable water from groundwater production bores.

3.2.1 Production and Monitoring Bores

Currently, production bores I01 supply water to key operating domains being crushing-screening plant and associated administration, workshop and office areas; bores K3 and V01 typically supply to the accommodation village.

The Island also has a network of open monitoring bores (K1, K2, K8, K9) to measure and observe potential impacts on groundwater as a result of mining operations. In addition to groundwater monitoring, these bores are also used for stygofauna monitoring in accordance with the Subterranean Fauna Management Plan.

The location of production and monitoring bores is shown in Figure 1. Bore completion summaries for production and monitoring bores, including current status, are presented in Table 1 and Table 2 respectively. Before the end of 2023, an augmentation program is being undertaken to drill, locate and additional bores for monitoring and potentially production. All existing and prospective bores are shown in Figure 1.

Southern Syncline Bores

Production bore I01 is an existing groundwater supply bore in the original Water Bore Gully bore field, within the Southern Syncline aquifer. K8 is currently the only monitoring bore that is serviceable within the southern syncline. The I01 Bore services the Mine Operating Centre (MOC) and the Processing Facility.

Central Anticline

Production bore K3 is the groundwater supply bore within the Central Anticline aquifer. K1 and K2 are its associated monitoring bores. The K3 Bore services the Village.

Northern Syncline Bores

Production bore V01 is the groundwater supply bore within the Northern Syncline aquifer. K9 is the monitoring bore. The V01 Bore services the Village as a backup and contingency bore due to its low water yield.

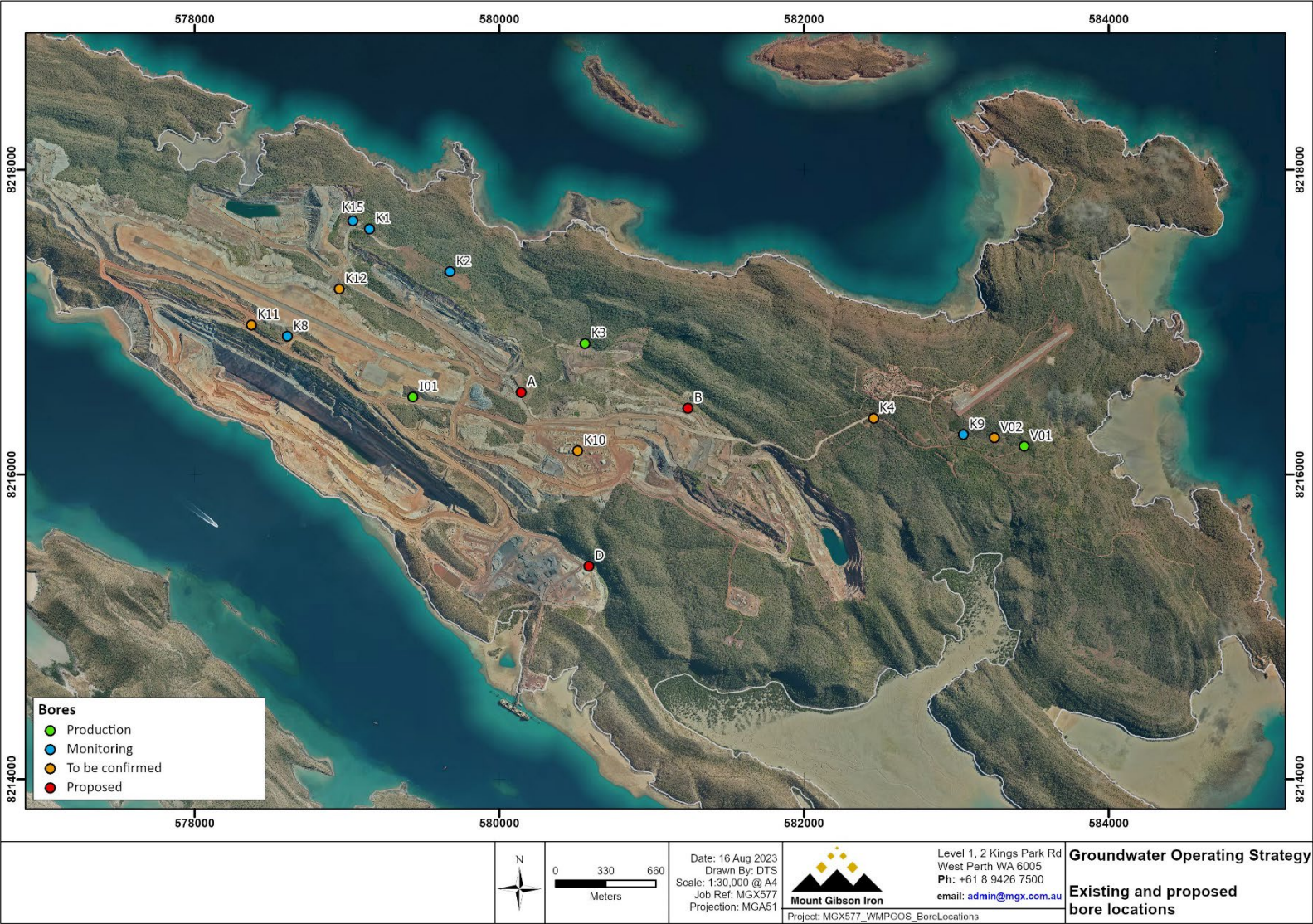
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3.2.2 Pit Dewatering

On 31 March 2019 capital dewatering of Main pit (following the collapse of the seawall in 2014) was completed with the final water level at 655m RL. Approximately 21Gl of seawater was removed from the Main Pit. Maintenance dewatering commenced to maintain water level below the base of mining operations. Water ingress from ground flows is managed as part of maintenance dewatering, with discharge regulated under Licence to Operate L8148/2006/4.

The orebody aquifer has been exposed in Main Pit, showing the contact between the Elgee Siltstone and Warton Quartzite below sea level (in places), resulting in hydraulic connection through the more permeable Warton Sandstone quartzites (Aquaterra, 2005). The orebody aquifer remains hydraulically isolated from the water supply aquifer within the Southern Syncline by the limited cross-strike permeability in the Pentecost Formation and an indurated zone at the base of the orebody (known as the Footwall formation) (Aquaterra, 2005).

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Table 1: Summary of production bore construction

Bore ID	Status/(Location)	Coordinates		Elevation - Reference Level (RL) (mAHD)	Date Completed	Stick-up (magl ¹)	Main Casing			Airlift Data	
		mN	mE				Drilled (mbgl)	Blank Interval (mbgl)	Slotted Interval (mbgl)	Discharge (L/s)	Water Level (mbgl)
I01 (M10)	In Service (Southern Syncline)	8216509. 31	579433.03	136.50	11/01/80	0.5	200	0 – 137.0	137.0 – 200.0	7.0	112.4
K3 (M4)	In Service (Northern Syncline)	8216860	580563	38.686	Pre-1990	0.05	32	Open Hole		4.2 ³	16.26
V01 (M1)	In Service (Northern Syncline)	8216185. 11	583445.18	137.09	06/08/06	0.22	243	0 – 134.6	134.6 – 224.5	2.2 – 2.8	120.0
V02	TBC (standby) (Northern Syncline)	8216241 .00	583249.00	136.00	26/08/06	0.25	246	0 – 126.0	126.0 – 246.0	0.8	122.0

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Table 2: Summary of monitoring bore construction

Bore ID	Status	Coordinates		Elevation - Reference Level (RL) (mAHD)	Date Completed	Stick-up (magl ¹)	Main Casing ²			Airlift Data	
		mN	mE				Drilled (mbgl)	Blank Interval (mbgl)	Slotted Interval (mbgl)	Discharge (L/s)	Water Level (mbgl)
K1 (M6)	In Service (Central Anticline)	8217612	579148	97.57	3/06/06	0.40	160	0 – 86.0	86.0 – 156.0	0.4	83.68
K2 (M5)	In Service (Central Anticline)	8217331	579676	107. 453	20/05/06	0.45	163	0 – 95.5	95.5 – 161.5	0.13	88.89
K4	TBC (Northern Syncline)	8216368	582456	146. 213	10/06/06	0.35	159	0 – 116.3	116.3 – 158.3	0.04	128.45
K8 (M9)	In Service (Southern Syncline)	8216906	578608	136. 085	15/05/06	0.50	108	0 – 70.9	70.9 – 100.9	0.10	60.75
K9 (M3)	In service (Northern Syncline)	8216263	583047	145. 81	14/06/06	0.40	230	0 – 109.8	109.8 – 229.8	0.40	117.48
K10	TBC (Southern Syncline)	8216155	580515	161. 51	10/05/06	0.45	190	0 – 117.7	117.7 – 189.7	0.05	143.58
K11	TBC (Southern Syncline)	8216981	578373	134. 898	17/06/06	0.4	233	0 – 113.5	113.5 – 232.1	0.90	93.46
K12	TBC (Central Anticline) - Dry	8217216.3	578948.3	119.7	9/05/2009	1.1	136	No Info	No Info	No Info	105.16
K15	In service (Central Anticline)	8217665.31	579038.76	105.48	2/11/2009	0.3	138	No Info	No Info	No Info	83.70

¹ magl = meters above ground level² Casing diameter: Bore M2: Surface hole 315 mm; surface casing 300mm steel; main hole 300mm; main casing 155mm PVC. All other bores: Surface hole 216mm; surface casing 150mm steel; main hole 147mm, main casing 50mm PVC³ Recommended yield based on test pumping conducted on 21 January 2008

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4. ADMINISTRATIVE REQUIREMENTS

4.1 Duration of Operating Strategy

The GOS will remain in effect for the duration of the operation of the water supply borefield and dewatering system. The GOS shall be subject to review should changes in the groundwater system be identified, including:

- annually as part of the compliance assessment report to DWER.
- As required due to changes in water demand.

Review and, if necessary, revision of the GOS will be undertaken every two years. Significant revisions of the GOS shall be submitted to the OEPA, such as increasing or decreasing abstraction rates beyond that predicted.

4.2 Water Year

The water year for reporting will be 1 January to 31 December.

4.3 Reporting

A summary of groundwater quality monitoring and a review of abstraction and dewatering activities shall be submitted as part of the Compliance Assessment Report submitted to DWER prior to July 31 every year.

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5. OPERATING RULES

5.1 Bore Specifications and Capacities

Production bores will be serviced and maintained to meet potable and non-potable water demand for the Village and the broader mine operation. Actual abstraction rates will vary depending on water demand, with mine site demand for uses such as dust suppression being influenced by seasonal variation.

5.2 Main Pit Dewatering

KIO is licensed to undertake mine dewatering (Category 6) under Licence to Operate L8148/2006/4. Mine dewatering and discharge occurs from Main Pit at an average rate of 150L/s. Mine dewatering is required from Main Pit to maintain water levels below the pit floor to allow safe and efficient mining.

Mine dewater from Main Pit is pumped to the settlement pond for retention prior to discharge to the ocean via the marine diffuser outlet or otherwise directly under approved contingency dewatering arrangements following periods of heavy rainfall.

Dewatering undertaken under L8148/2006/4 is reported in the Annual Environment Report submitted to DWER.

5.3 Water Demand

Water supply is required for the crushing plant, workshop areas, associated administration areas and the village during operations. For the three year period 2020-2022 the annual average abstraction of groundwater was 139,353 kL (0.14 GL) per year. Water demand for both potable and non-potable use therefore averages 380kL/day.

The total abstraction rate during 2021 was higher than average at 154,055 kL as a result of large maintenance projects being undertaken on site and the Village operating at maximum capacity for an extended period. Total abstraction rates during 2020 and 2022 were very similar at 130,474 kL and 133,530 kL, respectively. It is anticipated that total abstraction for 2023 will be around 135,000 kL.

The borefield has been designed and equipped to sustain the total Project water requirement during operations. The actual monthly demand on the water supply borefield during mining operations will vary from month to month because of variations in camp demand as well as road and infrastructure maintenance. Total abstraction for potable and non-potable uses shall not exceed 0.2 GL per year.

Surface freshwater in East Pit and Mullet Pit may be abstracted for use in dust suppression and operational purposes at site if required. Annual rainfall means that both pits receive large inflows of rainwater during the wet season. Abstraction from either pit is not expected nor shown to effect levels of the underlying aquifers.

5.4 Water Meter Calibration

Water meters are installed at each production bore. Any new production bores shall be installed with a water meter. If a water meter requires calibration, it is to be done so in accordance with the manufacturer's specifications. The water meters currently on the production bores do not require calibration as they are mechanical. Water meter readings are taken on a monthly basis. Abstraction rates are reported in the annual Compliance Assessment Report.

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6. MONITORING

A groundwater monitoring program is implemented to monitor the potential effects of borefield operation and pit dewatering activities on groundwater levels and quality. The monitoring results and analysis results shall be reported to DWER annually as part of the Compliance Assessment Report.

The monitoring program is also implemented in accordance with the Licence L8148/2006/4 issued by DWER (Table 3). Monitoring is undertaken in accordance with AS/NZS 5667.11:1998 *Water Quality Sampling Part 11 Guidance on sampling of groundwater* and site safe working procedures. Water samples taken during the annual program shall be submitted to a NATA accredited Laboratory for analysis.

Table 3: Monitoring program

BORE	SAMPLING FREQUENCY	PARAMETERS TO BE MEASURED	
I01 V01 K3 Or any production bore used within the month	Monthly	Standing Water Level Electrical conductivity (Field Measurement) pH (Field Measurement)	
I01 V01 K3 K1 K2 K8 K9 Or any open production or monitoring bore available to sample.	Annual #	Standing Water Level Electrical conductivity pH Total Dissolved Solids Total Recoverable Hydrocarbons Hardness Total Alkalinity Total Nitrogen Total Phosphorous Bicarbonate Carbonate Nitrate Sulphate	Aluminium Arsenic Barium Boron Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Sodium Zinc

note: sampling rounds can occur more frequently to meet drinking water data for potable purposes as reported to DoH.

Monitoring data will be recorded in the site database and subjected to ongoing review and check of compliance with the GOS. The quality-checked data will be presented in the annual compliance assessment report.

7. ENVIRONMENTAL MANAGEMENT

In 2005 a feasibility study was undertaken by Aquaterra to assess groundwater management issues relating to mine dewatering and project water supply associated with the then proposed operation. A groundwater model was constructed to assess dewatering requirements and to predict the potential impact of dewatering on groundwater supplies at Koolan Island (Aquaterra, 2005).

In 2006, more detailed work was completed on the installation of four bores (I02, V01, V02 and M2), pump testing and down-hole salinity logging of these bores as well as development a numeric groundwater model for dewatering of Mullet Pit (Aquaterra, 2006).

The Aquaterra (2005) study predicted that although dewatering activities would affect the Southern Syncline aquifer in the vicinity of water supply bores I01 and I02, the effect would not significant. Groundwater modelling predicted a 20m drawdown in bore I01 to -5m RL and a 5m drawdown in bore I02 (10m RL) due to its location away from the pit. In the Northern Syncline aquifer, the model predicted drawdown to -40 mRL in bore V01..

Groundwater level monitoring since 2011 has not shown significant changes in water levels in any of the aquifers. Localized drawdown has been recorded during periods of high water demand; however, recovery has been rapid and drawdown has not exceeded 5m.

Dewatering in Main Pit does not affect the Southern Syncline aquifer characteristics.

Monitoring of groundwater levels has not identified any long-term effects of abstraction on either regional water levels or water quality. Aquifers recharge during the wet season and water demand for dust suppression is also reduced during the wet season. Dust suppression water is also predominantly obtained from water collected in the settlement pond, further reducing demand on production bores.

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8. SUMMARY OF COMMITMENTS

A summary of commitments outlined in this groundwater operating strategy is provided in Table 4.

Table 4: Summary of commitments and obligations

Relevant Section in Operating Strategy	Commitment	Timing / Duration / Frequency
Water Abstraction	Details of any new production bores will be added to this operating strategy	When bores are constructed
	Category 6 – Mine dewatering shall not exceed the amount in L8148.	As specified
	Total abstraction from production bores for potable and non-potable uses shall not exceed 0.2 gegalitres per year.	As specified.
Administrative Requirements	The operating strategy will be reviewed every 2 years along with the Water Management Plan and at other times as may be required to meet changing project demand or declining supply capacity.	As specified
	A review of groundwater quality monitoring data and abstraction activities shall be summarised in the Annual Environment Report component of the Compliance Assessment Report to the DWER.	Annual prior to 31 July
Operating Rules	Bore table shall be amended as Bores and removed or added from service	As and when required
	Flow meters will be installed at each production bore-head and dewatering discharge outlet from Main Pit	Prior to commissioning
	Flow meters will be calibrated as per manufacturers specifications	Main Pit Flow Meters – Annually (if in use) Production bore flow meters do not require calibration due to manufacturer's specifications and they are mechanical.
Monitoring	The proposed monitoring schedule will be implemented	Ongoing
	All quality checked data will be entered in the site monitoring database	Ongoing
	Monitoring data and trends will be reported in the annual environment report to DWER.	As specified
Environmental Management	Ongoing monitoring of water levels will be used to establish long-term effects of abstraction on regional water levels	As specified (Table 3)
	Ongoing monitoring will be used to indicate any changes in water quality	As specified (Table 3)
	Excess water from dewatering Main Pit will be discharged in accordance with Operating Licence L8148\2006\4	As required

9. REFERENCES

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