



Environment Protection Licence 12559 Pollution Reduction Programs Status Report - November 2014

(1) Ryan Street Dam (located on CML7) - due to historic mining activities

U1.1 The licensee must undertake, as required, the following works to ensure water does not seep from the S49 dam and the trench located between the S49 dam and Ryan Street.

- (a) Monitoring for water within the trench;*
- (b) Pumping all water out of the trench; and*
- (c) Depositing water pumped from the trench to Horwood Dam.*

The dams and trench are inspected regularly and following high rainfall events. Arrangements have been made when there has been the potential for overflow/seepage to pump the water into a water truck and deposit in Horwood Dam.

U1.2 The licensee must produce a report which investigates the feasibility of rehabilitating the catchment area which is part of CML7 and drains to the S49 dam.

COMPLETION DATE: 31 March 2015

BHOP are currently carrying out investigations into the appropriate rehabilitation options to determine the most optimal for life of mine. This is on track to be completed by March 2015.

(2) Eyre Street Dam (not located on CML7) - due to historic mining activities

U2.1 The licensee must conduct weekly monitoring of the Eyre Street bund to ensure no seepage occurs.

Inspections are undertaken weekly.

U2.2 The licensee must implement the longer term recommendations from the Eyre Street investigation report through; installation of capping on the Eyre Street Dam to control rainfall infiltration into the fill materials within the dam.

COMPLETION DATE: 31 March 2015

It is proposed to use inert waste rock as a capping medium. This is on track to be completed by March 2015.

U2.3 The licensee must present performance monitoring data demonstrating the Eyre Street seepage collection system is functioning to the satisfaction of the EPA.

Water is continuously pumped to Horwood Dam to prevent seepage, pumps inspected daily.

U2.4 The licensee must submit a plan and a schedule of works to finalise the Eyre Street seepage collection trench/system including a completion date.

COMPLETION DATE: 31 March 2015

BHOP are currently carrying out investigations into the appropriate rehabilitation options to determine the most optimal for life of mine. This is on track to be completed by March 2015.



U2.5 The licensee must prepare and submit a report to the EPA proposing the remediation of the Eyre Street seepage collection system affected areas (both on and off the mining lease) together with a stated schedule for the completion of works.

COMPLETION DATE: 31 March 2015

BHOP are currently carrying out investigations into the appropriate rehabilitation options to determine the most optimal for life of mine. This is on track to be completed by March 2015.

(3) Comprehensive audit of production rock blasting activities - due to exceedence of vibration limit

U3.1 The licensee must - Engage a suitability qualified independent expert to prepare a report that undertakes a comprehensive audit of rock blasting activities being undertaken at the Rasp Mine in Broken Hill. The audit must assess blasting techniques, methodologies and result vibration and overpressure levels to ascertain whether blasting operations can be undertaken in a manner that is within licence limits and acceptable to amenity levels. The audit report should consider identifying blast vibration levels that are acceptable to community amenity and are economically viable to the mine.

COMPLETION DATE: 31 January 2015

BHOP have engaged the services of Jason Turley and Mike Humphreys from Prism Mining Pty Ltd. Preliminary reports have been received and passed on to the EPA with meetings held to discuss their contents / conclusions and further work. This work is on track to be completed by January 2015.

U3.2 The licensee must - Engage a suitability qualified independent expert to develop a production rock blast management plan from outcomes identified in the audit required by condition U3.1 to ensure blasting activities are undertaken in a manner that is within both licence limits as well as acceptable community amenity levels.

COMPLETION DATE: 31 October 2014.

The Production Rock Blast Management Plan and procedures have been drafted and provided to the drill & blast consultant for review. It is expected these are on track for submission by the end of October.

U3.3 The licensee must submit the completed audit report described at U3.1 and rock blast management plan described at 3.2 in writing to - Manager South West NSW EPA.

COMPLETION DATE:

31 October 2014 - interim audit report and rock blast management plan.

31 January 2015 - final audit report.

Refer above, the Rock Blast Management Plan has been completed and submitted to the EPA 31st October 2014.

U3.4 In consultation with the EPA, the licensee must finalise the time frames for implementation of any recommended actions nominated in the independent audit report and the rock blast management plan.

COMPLETION DATE:

31 October 2014 - interim audit report and rock blast management plan.

31 January 2015 - final audit report.



Refer above, response to Interim Audit submitted 31st October 2014.

(4) Noise monitoring - due to BHOP noise monitoring

U4.1 The licensee must undertake a 12 month noise monitoring programme to assess compliance with the noise limits identified at licence condition L4.2. The programme must:

- 1) Undertake quarterly noise monitoring of all Rasp mine surface noise activities, commencing November 2014.*
- 2) Include at least one 15 minute noise measurement at all receptors identified in condition L4.2 and the most affected residential premises in Iodide Street or Proprietary Square.*
- 3) Collect noise monitoring data in accordance with the NSW Industrial Noise Policy and consistent with meteorological conditions that satisfy condition L4.4.*
- 4) Present the raw monitoring data collected to the EPA within one month of the completion of each of the first 3 quarterly monitoring events.*
- 5) Present a final noise impact assessment report to the EPA by the 31 January 2016. The report must include all data collected consistent with condition U4.1 and determine if the Rasp mine is operating within noise limits detailed at condition L4.2. The report must also comment on the noise impact on the most affected residential premise in Iodide Street or Proprietary Square.*

Quarterly noise monitoring is schedule to commence in November on the completion of some noise bunding along the haul road and will be undertaken by EMM EMGA|Mitchell|Mclennan in conjunction with mine environment personnel.

(5) Weather station - due to failure of equipment

U5.1 The onsite weather station must be repaired and maintained in an operational condition so that data required to be collected at licence condition M4.1 can be continuously monitored and recorded.

U5.2 A report must be prepared and submitted to the EPA that compares long term wind speed and wind direction data collected by the Rasp mine on site weather station against data collected by the Commonwealth Bureau of Meteorology (BOM) weather station at Broken Hill. The report must include:

- Data compared over a 12 month period.*
- At least 1 period of 72 hours per month where data is collected from both weather stations every 30 minutes and compared, along with daily comparison of 9.00am and 3.00pm data.*
- Justification that the onsite weather data is reliable in comparison to the BOM data.*
- Recommendations to improve the onsite weather station, where necessary; and must be submitted to the EPA by 31 January 2015.*



The weather station located on CML7 developed faults in the lightning strike circuit breaker. Electricians on site rectified this and now the weather station has power. The weather station collects data however it is unable to communicate with the server on site and discussions with the manufacturer, Envirodata, has revealed the problem is software related. New software for the weather station has been installed and faults were found in the receiver. A replacement unit has been ordered and is expected to be installed by mid-November.