



An independent audit covering the period from 6 February 2016 to 15 February 2019 was conducted for Project Approval 07\_0018 MOD5, Environmental Protection Licence 12559, and Consolidated Mining Lease 7, in February 2019. The actions and timeframes to address Non-compliances and Observations identified in the audit are addressed in the following tables.

## Non-compliances

Item No.	Condition	Requirement	Finding	Non-compliances or Recommendations	Action	Date Required
1	PA 07_0018 Sch2 Cond8	Structural Adequacy  The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.  Notes to Condition 8:  • Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and  • Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.	As noted in the 2015 AEMR (section 5.1), 2016 AEMR (section 7.1) and the 2017 AEMR (section 8.1): "There were no buildings erected or demolished during the year."  It was stated that the only new structure constructed on site in the audit period was the Concrete Batching Plant (commissioned in September 2018).	Administrative non-compliance  At the time of this February 2019 audit, BHOP was unable to provide evidence (e.g. an occupation certificate) that the Concrete Batching Plant was constructed in accordance with the relevant requirements of the Building Code of Australia.  It was stated that asbestos removal is expected to occur in the future within some buildings on site, including roof replacement works that will occur as a result of hail damage from a previous storm.	Administrative non-compliance  BHOP will seek a final inspection and an Occupation Certificate from Broken Hill City Council.	30 Sept 2019
2	PA 07_0018 Sch2 Cond10	Operation of Plant and Equipment  The Proponent shall ensure that all the plant and equipment used on site, or to transport materials to and from the site, is:  (a) maintained in a proper and efficient condition; and  (b) operated in a proper and efficient manner.	BHOP uses the Pronto software system to record its plant and equipment assets, and for maintenance planning and scheduling.  In relation to paragraph (a) of this condition, records which were sighted in this February 2019 audit included:  • maintenance records (a history of scheduled services and unscheduled repairs) held in the Pronto system (including assigned work priorities from '1' to '5', with '1' being immediate, '2' within 24 hours, '3' within 7 days, '4' within 4	Non-compliant (low risk)  During the audit period there were several incidents involving failures in environmental monitoring equipment. For example, TEOM data for PM10 was not collected from TEOM2 in April and May 2018 due to a storage card malfunction in TEOM2 and the data was not being downloaded or being reviewed on a daily basis. It is acknowledged that redundant/dual data acquisition has since been installed and daily data downloads are now occurring.	Non-compliant (low risk)  BHOP has implemented actions from incident investigations which included redundant data acquisition, storage of spare parts, third party monitoring and alerts provision, and the review of monitoring practices.	Complete



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			weeks and '5' during shutdown) for assets including the Baghouse (Pronto item 310-DC-01), the BHOP-owned Isuzu water truck (Pronto item WT-03) and the wash-bay at the entrance to the mining area of the site (Pronto item RINFR-TW);  • completed Workshop Weekly Inspection Records (Work Order No. 0189880 for an inspection on 27 November 2018, and Work Order No.0192594 for an inspection on 18 December 2018); and  • completed Weather Station and TEOM Units Inspections Log Sheet Forms (BHO-FRM-ENV-009) for dates from 4 February 2019 to 13 February 2019, and 14			
3	PA 07_0018 Sch3 Cond3	Air Quality and Greenhouse Gas – Air Quality Criteria  The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause an exceedance of the criteria listed in Tables 1, 2 or 3 at any residence on privately-owned land.	BHOP's current 'Air Quality or Dust or Other Contaminants Management Plan' (AQMP) is revision no. 5, issued on 28 September 2017, Doc ID: BHO-PLN-ENV-001. Section 9 of the AQMP defines avoidance and mitigation measures to help ensure particulate matter emissions generated by the project do not cause an exceedance of the criteria listed in Tables 1, 2 or 3 of this condition at any residence on privately-owned land. Refer to condition 5 of this Schedule for examples of BHOP's dust management practices.  High Volume Air Samplers (HVASs) BHOP operates and maintains three HVASs to measure ambient air quality at the Rasp Mine:  HVAS (EPL10) and HVAS1 (EPL11) are located at the Silver Tank, central and to the south of the mine lease; and	Non-compliant (low risk)  During the audit period, some minor isolated exceedances were experienced in Total Suspended Particulates, PM10 and total depositional dust, against limits defined in Tables 1, 2 and 3 of this condition.	Non-compliant (low risk)  Non-compliance with PM10 annual average criterion at TEOM2 in December 2018 is likely the result of high regional dust levels. TEOM data is validated by a third party (Ecotech) in compliance with AS 3580.9.8 – 2008 and Ecotech Internal Standards. BHOP is also reviewing the methods for conducting data screening and analysis.	31 Oct 2019



Item No.	Condition	Requirement	Finding	Non-compliances or Recommendations	Action	Date
NO.			HVAS2 (EPL12) is located adjacent to and	Recommendations		Required
			north of Blackwood Pit (TSF2).			
			Hortif of Blackwood Fit (1312).			
			HVAS samples for total suspended			
			particulates (TSP) and lead dust, and			
			HVAS1 and HVAS2 sample for particulate			
			matter less than 10 microns (PM10) and			
			lead dust.			
			Selected BHOP Monthly Environmental			
			Monitoring Reports were viewed to assess			
			HVAS results against Table 1 of this			
			condition.			
			The Monthly Environmental Monitoring			
			Report for January 2017 showed that:			
			for HVAS, averaged values for PM10 in			
			2016 indicate that the annual average total			
			suspended particles (TSP) at 36 μg/m <sup>3</sup> is			
			well below the 90 μg/m <sup>3</sup> annual average criterion;			
			• for HVAS1, annual average PM10 at 13			
			μg/m³ is well below the 25 μg/m³ annual			
			average criterion; and			
			at HVAS2, annual average PM10 at 12			
			μg/m3 is well below the 25 μg/m <sup>3</sup> annual			
			average criterion.			
			The Monthly Environmental Monitoring			
			Report for December 2017 showed that:			
			• for HVAS, averaged values for TSP of			
			approximately 34 µg/m <sup>3</sup> are below the 90			
			μg/m <sup>3</sup> annual average criterion;			
			• for HVAS1, the Rolling Annual Average			
			for PM10 of approximately 16 μg/m <sup>3</sup> is			
			below the 25 μg/m <sup>3</sup> annual average			
			criterion; and • for HVAS2, the Rolling Annual Average			
			▼ 101 ⊓VASZ, the Kolling Almual Average			



Item				Non-compliances or		Date
No.	Condition	Requirement	Finding	Recommendations	Action	Required
NO.			for PM10 of approximately 13 µg/m <sup>3</sup> is	Recommendations		Required
			below the 25 μg/m <sup>3</sup> annual average			
			criterion.			
			Criterion.			
			The Monthly Environmental Monitoring			
			Report for December 2018 showed that:			
			• for HVAS, averaged values for TSP to			
			December 2018 is 62.89 µg/m <sup>3</sup> which is			
			below the 90 µg/m <sup>3</sup> annual average			
			criterion;			
			• for HVAS1, the PM10 rolling annual			
			average was 25.4 µg/m³ which is slightly			
			above the PM10 annual average criterion			
			of 25 μg/m <sup>3</sup> . The increase in the PM10			
			annual average was a result of severe			
			drought conditions over this period; and			
			• for HVAS2, the rolling annual average			
			PM10 to December 2018 is 23.78 μg/m <sup>3</sup>			
			which is below the PM10 annual average			
			criterion of 25 μg/m <sup>3</sup> .			
			TEOM Samplers (PM10)			
			In addition to HVAS samplers, BHOP			
			operates and maintains two Tapered			
			Element Oscillating Microbalance (TEOM)			
			sampling units to measure ambient air			
			quality at the Rasp Mine:			
			TEOM1 (EPL13) is located off-site within			
			the perimeter fence of Essential Water			
			south of the mine lease; and			
			• TEOM2 (EPL14) is located on-site			
1			adjacent to Blackwood Pit to the north of			
			the mine lease.			
			TEOM1 and TEOM2 operate continuously			
			and sample for particulate matter less than			
			10 microns (PM10) in size. No spare TEOM			
1			unit exists on site, but BHOP stated that a			
			replacement unit is able to be sourced			



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			within three days.			
			BHOP has commissioned service provider,			
			Ecotech, to provide monthly monitoring			
			and data reporting services for the Broken			
			Hill Site 1 and Site 2 ambient air quality			
			monitoring stations (i.e. TEOM1 and			
			TEOM2 stations for monitoring ambient			
			PM10). Ecotech retains NATA			
			Accreditation No. 14184.			
			Selected Ecotech reports and BHOP			
			Monthly Environmental Monitoring			
			Reports were viewed to assess TEOM			
			results against this condition.			
			The Monthly Environmental Monitoring			
			Report for December 2016 showed that:			
			• for TEOM1, the PM10 μg/m³ annual			
			average was 13.7 μg/m³ (below the limits			
			in Tables 1 and 2); and			
			• for TEOM2, the PM10 µg/m³ annual			
			average was 14.0 μg/m³ (below the limits			
			specified in Tables 1 and 2).			
			The Monthly Environmental Monitoring			
			Report for December 2017 showed that:			
			• for TEOM1, the PM10 µg/m³ annual			
			average was 16.7 µg/m <sup>3</sup> (below the limits			
			in Tables 1 and 2); and			
			• for TEOM2, the PM10 μg/m³ 12 annual			
			average was 19.5 μg/m <sup>3</sup> (below the limits			
			specified in Tables 1 and 2).			
			The Monthly Environmental Monitoring			
			Report for December 2018 stated that both			
			Project Approval and Environment			
			Protection Licence criteria exclude dust			
			storms and other extraordinary events. If			



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			the results of 1, 8, 13, 20, and 29 – 31			
			December were not included in the			
			calculations then the rolling annual			
			average PM10 results for TEOM1 and			
			TEOM2 would be 20.9 μg/m <sup>3</sup> and 25.2			
			μg/m <sup>3</sup> respectively, which is below the			
			PM10 annual average criterion of 25 μg/m <sup>3</sup>			
			for TEOM1 and slightly above the PM10			
			annual average criterion of 25 μg/m <sup>3</sup> for			
			TEOM2 required at the nearest residence			
			on privately-owned land. Taking this into			
			consideration the Rasp Mine is compliant			
			with this criterion at TEOM1 and non-			
			compliant with this criterion at TEOM2.			
			Dust Deposition Sampling			
			BHOP operates and maintains seven dust			
			deposition gauges to measure ambient air			
			quality at the Rasp Mine – D1 to D7. D1			
			and D6 are located off-site, with D1 located			
			near the St Johns training facility north of			
			the Rasp Mine and D6 located in Casuarina			
			Avenue south of the Rasp Mine. D2 to D5			
			and D7 are located on the mine lease in			
			various locations. Dust samples are			
			collected monthly and analysed for total			
			deposited dust and deposited lead dust.			
			Selected BHOP Monthly Environmental			
			Monitoring Reports were viewed to assess			
			dust deposition results against this			
			condition.			
			The Monthly Environmental Monitoring			
			Report for December 2016 stated that with			
			the exception of the background site (D6)			
			in February 2016 and September 2016,			
			depositional dust was within the maximum			



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No.	Condition	Requirement	riliuling	Recommendations	Action	Required
			allowable total concentration of deposited			
			dust of 4g/m <sup>2</sup> /month (annual average)			
			with the maximum allowable contribution			
			from the mine being 2g/m <sup>2</sup> /month (annual			
			average).			
			The Monthly Environmental Monitoring			
			Report for December 2017 stated that the			
			Rasp Mine is in compliance with criteria.			
			Elevated total dust recorded at the offsite			
			monitor at Casuarina Avenue appears to			
			have been caused by motor bikes accessing			
			the vacant lot at the rear of the property.			
			The Monthly Environmental Monitoring			
			Report for December 2018 stated that			
			results for all dust gauges were elevated in			
			December 2018. While the December			
			results at D4 and D6 are above the			
			background levels measured in 2010 they			
			were impacted by particularly dry			
			conditions resulting in dust storms on 1			
			and 13 December 2018. Results were			
			highest at Junction Mine and Casuarina			
			Ave. There are no Rasp Mine activities			
			being undertaken at the Junction Mine and			
			Casuarina Avenue is not on the Rasp Mine			
			site. The Casuarina Avenue location			
			returns consistently high dust readings			
			which is likely due to it being located in the			
			backyard of a residence adjacent to a bare			
			block. The Junction Mine location is also			
			surrounded by sparsely vegetated areas			
			subject to vehicular traffic, which likely			
			contributes to the elevated readings.			
			Given the dust storms experienced in			
1			December 2018 and the erroneous/			
			unrepresentative location of the			



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			background sampling site D6 – Casuarina Ave, it is difficult to conclude the status of compliance with depositional dust limits in Table 3 for 2018.			
4	PA 07_0018 Sch3 Cond10	Air Quality and Greenhouse Gas – Operating Conditions  Video recording equipment shall be installed to assist in the active management of emissions from the tailings storage facility.	As noted in the February 2016 audit report, it was stated that video recording equipment was previously installed for an embankment lift on TSF1.  In the February 2016 audit report, BHOP noted (in response to PA Observation No. 9) that:  • because TSF2 was an in-pit facility, dust take up from wind will not become an issue until tailings levels rise closer to the surface; and  • that it would confirm with the EPA, who requested the equipment be installed on TSF1, and if it is agreed that it is not required, apply to the DPE to have this condition removed.	Non-compliant (low risk)  Given the inclusion of a definition of TSF2 as "tailing storage facility 2" in the MOD 4  Project Approval, it is considered that this condition applies to TSF2 and to any other tailings storage facility. No video recording equipment for management of emissions from TSF2 was in place during the audit period.  During this February 2019 audit it was stated that BHOP has secured a quotation for the supply and installation of a camera(s) for the planned TSF2 Embankment Lift (i.e. as a means of observing dust emissions from the mill Control Room).	Non-compliant (low risk)  BHOP will install video recording equipment to assist in the active management of emissions from the tailings storage facility.	Complete (two cameras installed to monitor TSF2).
5	PA 07_0018 Sch3 Cond11	Air Quality and Greenhouse Gas – Air Quality Management Plan  The Proponent shall prepare and implement a detailed Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:  (a) be prepared in consultation with EPA and submitted to the Secretary for approval prior to the commencement of construction on the site;  (b) identify all major sources of particulates and other air pollutants that may be emitted	BHOP's current 'Air Quality or Dust or Other Contaminants Management Plan' (AQMP) is revision no. 5, issued on 28 September 2017, Doc ID: BHO-PLN-ENV-001. A different version of the AQMP is on the CBH website (titled 'Air Quality Management Plan', version no. 2, issued on 28 July 2016, Doc ID: BHO-PLN-ENV-001).  This audit finding relates to the AQMP revision no. 5, issued on 28 September 2017.	Non-compliant (low risk)  BHOP's current AQMP (revision no. 5 issued on 28 September 2017) does not include the following details:  • There is no provision for triggering the automated water spray system referred to in the first dot point of paragraph (c) because the system has not yet been installed. It is acknowledged that section 5.9 of BHOP's 'Construction Environment Management Plan TSF2 Embankment Construction' (BHO-PLN-ENV-012, revision no. 1 issued on 17	Non-compliant (low risk)  BHOP will update the AQMP to include provision for triggering the automated water spray system, protocols in the AQMP for regular maintenance of plant and equipment to minimise the potential	Complete



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		from the project, being both point source		January 2019) states: "The spray system is to	for elevated dust	•
		and diffuse emissions, including	During this February 2019 audit there was	be installed once EMB2 has been completed	generation, leaks and	
		identification of the potential for lead	evidence that BHOP is implementing the	and access to the Pit rim becomes available,	fugitive emissions,	
		contamination to be carried by these	AQMP. Refer to condition 5 of this	and will be designed such that the piping and	and a contingency plan	
		particulates;	Schedule for examples of implementation	sprays can be activated at any time during	should an incident,	
		(c) include an air quality monitoring program	of the AQMP.	operations."	upset or other initiating	
		that:	In addition to the AONAR BUOR has an Air	There are no protocols in the AQMP for	factor lead to elevated	
		• provides a real-time monitoring system of	In addition to the AQMP, BHOP has an Air	regular maintenance of plant and equipment	dust impacts, whether	
		dust emissions around the perimeter of TSF2	Quality Monitoring Program Management	to minimise the potential for elevated dust	above normal operating	
		that triggers an automated water spray	Plan (AQMPMP), the current version being	generation, leaks and fugitive emissions	conditions or above environmental	
		system prior to adverse meteorological	revision no. 2 issued on 28 July 2016, Doc ID: BHO-PLN-ENV-0010. The AQMPMP is	(paragraph (k)).  • There is no contingency plan in the AQMP	performance	
		conditions occurring;	on the CBH website.	_ , ,	'	
		is capable of measuring lead concentrations located in the prevailing	on the CBH website.	should an incident, upset or other initiating factor lead to elevated dust impacts,	goals/limits.	
		down wind direction near the perimeter of	In relation to the paragraphs of this	whether above normal operating conditions		
		TSF2;	condition:	or above environmental performance		
		• provides for periodic point source	(a) Appendix D to the AQMP reproduces	goals/limits (paragraph (I)).		
		monitoring at Point 1 (Ventilation Shaft) and	email correspondence with the EPA circa	goais/illilits (paragraph (1)).		
		Point 2 (Process Enclosure/ Baghouse Stack);	March 2016. It is considered that the			
		• provides for continuous ambient	requirement for submission of the AQMP			
		monitoring across an ambient air quality and	to the Secretary for approval prior to the			
		dust monitoring network comprising no	commencement of construction on the site			
		fewer than ten monitoring locations (Points 3	does not apply to subsequent revisions of			
		to 12) for total suspended particulates,	the AQMP.			
		PM10, lead and dust deposition. Monitoring	(b) Section 7 of the AQMP identifies			
		locations shall be informed by the outcomes	pollutants that may be emitted from the			
		of the air quality assessments presented in	project, being both point source and			
		the EA and PPR and identified in consultation	diffuse emissions, including identification			
		with EPA; and	of the potential for lead contamination to			
		provides for continuous meteorological	be carried by these particulates.			
		monitoring using a meteorological	(c) The AQMPMP (referred to in section 13			
		monitoring station located on the site;	of the AQMP) references a number of			
		• is consistent with the requirements of	Procedures for Air Quality Monitoring			
		Approved Methods for the Sampling and	(section 8) and generally satisfies the			
		Analysis of Air Pollutants in New South Wales	points in paragraph (c). Refer to the non-			
		(DECC, 2007), the Protection of the	compliance below.			
		Environment Operations Act 1997 and the	(d) Section 9 of the AQMP describes			
		Protection of the Environment (Clean Air)	management strategies including measures			



Item	0	B	er de c	Non-compliances or	A	Date
No.	Condition	Requirement	Finding	Recommendations	Action	Required
		Regulation 2010.	to manage air quality impacts including:			
		(d) pro-active and reactive management and	exposed areas (section 9.1), sealed roads			
		response mechanisms for particulates with	(section 9.3), TSF wind erosion (section			
		specific reference to measures to be	9.5), transfer to/from crushed ore storage			
		implemented and actions to be taken to	bin (section 9.6), ventilation exhaust			
		minimise and prevent potential elevated air	(section 9.7), crusher circuit (section 9.10),			
		quality impacts (including ambient air and	vehicle wash facilities (section 9.15) and			
		deposited dust impacts) on surrounding land	meteorological forecasting to guide dust			
		uses as a consequence of meteorological	management (section 9.18).			
		conditions, upsets within the project, or the	(e) The AQMP or AQMPMP do not describe			
		mode of operation of the project at any time;	procedures to review and refine the			
		(e) procedures to review and refine the	reactive management triggers for wind			
		reactive management triggers for wind	speed and dust concentrations.			
		speed and dust concentrations;	(f) The AQMPMP includes procedures and			
		(f) procedures and processes for monitoring	processes for monitoring ambient dust and			
		ambient dust and deposited dust impacts;	deposited dust impacts (e.g. reporting			
		(g) provision for regular review of dust	frequencies and selection of monitoring			
		monitoring data, with comparison of	locations in Appendix D).			
		monitoring data with that assumed and	(g) The AQMP or AQMPMP do not include			
		predicted in the documents referred to	provision for regular review of dust data.			
		under Condition 2 of Schedule 2;	The AQMPMP does include baseline air			
		(h) details of measures to be implemented to	quality monitoring data and some			
		address any situation in which monitored	predicted impacts (Appendix E, Figure D6).			
		dust impacts exceed those assumed and	(h) The AQMP or AQMPMP do not include			
		predicted in the documents referred to	details of measures to be implemented to			
		under Condition 2 of Schedule 2;	address any situation in which monitored			
		(i) specific complaints management	dust impacts exceed those assumed and			
		procedures in the event that dust monitoring	predicted.			
		indicates elevated offsite impacts;	(i) Section 11 of the AQMP describes			
		(j) procedures for the minimisation of dust	complaints management procedures (in			
		generation on the site;	relation to documentation and recording of			
		(k) protocols for regular maintenance of	information).			
		plant and equipment to minimise the	(j) Refer to comments for paragraph (d)			
		potential for elevated dust generation, leaks	above.			
		and fugitive emissions; and	(k) Appendix B to the AQMP includes air			
		(I) a contingency plan should an incident,	quality controls within Rasp Mine			
		upset or other initiating factor lead to	Procedures, including requirements to			
		elevated dust impacts, whether above	regularly inspect plant and equipment.			



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No.		normal argustina anditions or above	Have you there are no materials in the	Recommendations		Required
		normal operating conditions or above	However there are no protocols in the			
		environmental performance goals/ limits.	AQMP or AQMPMP for regular			
			maintenance of plant and equipment to minimise the potential for elevated dust			
			generation, leaks and fugitive emissions.			
			Refer to the non-compliance below.			
			(I) The AQMP does not include a			
			contingency plan should an incident, upset			
			or other initiating factor lead to elevated			
			dust impacts, whether above normal			
			operating conditions or above			
			environmental performance goals/ limits.			
			Section 9 of the AQMPMP deals with			
			responses to community complaints and			
			non-compliances (incident) and references			
			the management strategies in the AQMP.			
			Refer to the non-compliance.			
6	PA 07_0018	Noise and Vibration – Blasting Limits	Blast monitoring at the Rasp Mine is	Non-compliant (low risk)	Non-compliant (low	Complete
	Sch3 Cond18		scheduled and conducted by personnel		risk)	
		The Proponent shall ensure that blasting on	from BHOP's Environment Department.	In the audit period (relating to Table 9:		
		the site does not cause exceedances of the	Personnel from BHOP's Technical Services	Blasting Criteria (Block 7)) BHOP exceeded	Compliance has	
		criteria in Tables 8 and 9.	Department are responsible for reviewing	the allowable 5% above 3mm/s limit of the	returned to 100% in	
			the blast vibration data.	total number of blasts over a 12 month	Block 7.	
			RUOD assistativa situ samuliana a blast	period at Block 7 (V5 blast monitor). A total		
			BHOP maintains six compliance blast	of four blasts were recorded over 3 mm/sec		
			monitors and an additional four roving	and ranged from 3.07 mm/sec to 3.45		
			blast monitors. These are listed in BHOP's	mm/sec. No external complaints from these		
			Register of Blast Monitors.	blasts in Block 7 were received. The non- compliance with the 5% allowable limit is a		
			During the audit period there was no	result of the reduced number of blasts		
			identified exceedance of blast noise and			
			vibration criteria in Table 8: Blasting	calculated in the 12 month rolling average.		
			Criteria (excluding Block 7).	It was stated that BHOP has not blasted or		
			Citteria (excluding block /).	mined Block 7 since July 2018. There is no		
				known plan to recommence blasting or		
				mining of Block 7 in 2019.		



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		Table & Blasting Criteria (excluding Block 7)  Location Airblast Overpressure (BB(Lin Feak)) Facedance (BB(Lin Feak)) Fac				
7	PA 07_0018 Sch3 Cond20	Noise and Vibration – Noise and Blast Management Plan  The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: [Auditor's Note: there is no paragraph (a).] (b) be prepared in consultation with EPA, and submitted to the Secretary for approval by the end of June 2011; (c) describe the noise mitigation measures that would be implemented to: • ensure compliance with the relevant conditions of this approval, including a real-time	BHOP has prepared and implemented the following Management Plans in relation to this condition:  • a Blasting Monitoring Program Management Plan (BMPMP) which currently is revision no. 3, issued on 4 November 2016, Doc ID: BHO-PLN-ENV-006;  • a Technical Blasting Management Plan (TBMP) which currently is revision no. 1, issued on 30 March 2015, Doc ID: BHO-PLN-MIN-002;  • a Noise Monitoring Management Plan (NMMP) which currently is revision	Non-compliant (low risk)  BHOP's current BMPMP and TBMP do not address activities associated with the construction of the Concrete Batching Plant and TSF2 (i.e. the TSF2 Embankment Lift) and the capping and rehabilitation of TSF2 (paragraph (c)).	Non-compliant (low risk)  BHOP's current BMPMP and TBMP do not address activities associated with the construction of the Concrete Batching Plant and TSF2 (i.e. the TSF2 Embankment Lift) and the capping and rehabilitation of TSF2 (paragraph (c)).	Complete (Updated NMP addressing MOD4 requirement s on website. MOD5 requirement s addressed in current NMP with regulators for approval)



Item No.	Condition	Requirement	Finding	Non-compliances or Recommendations	Action	Date Required
		noise management system that employs both reactive and proactive mitigation measures; and  address activities associated with the construction of the concrete batching plant and TSF2, and the capping and rehabilitation of TSF2;  (d) include a noise monitoring program that:  uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the project; and  includes a protocol for determining exceedances of the relevant conditions of this approval;  (e) describe the blast management measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this approval; and  (f) include a blast monitoring program that:  evaluates the performance of the project, including compliance with the applicable criteria;  uses a combination of roving blast monitors (at least 1) and fixed blast monitors (at least 6); and includes a protocol for determining and responding to exceedances of the relevant conditions of this approval.	no. 3, issued on 19 January 2018, Doc ID: BHO-PLN-ENV-009. Refer to observation below regarding the version number.  During this February 2019 audit there was evidence that BHOP is implementing the BMPMP, TBMP and NMMP. Refer to comments for condition 19B of this Schedule for examples of implementation of the BMPMP and TBMP.  Implementation of 'best management practices' in section 8.2 of the NMMP observed during this February 2019 audit included noise awareness information in the BHOP Rasp Mine General Induction (page 94), and the use of enclosed conveyors and transfer stations prior to the grinding circuit.  In relation to the paragraphs of this condition:  (a) There is no paragraph (a) in the condition.  (b) Section 9 of the BMPMP and Appendix A of the NMMP provide evidence of consultation with the EPA. It is considered that the requirement for submission of the BMPMP and NMMP to the Secretary for approval by the end of June 2011 does not apply to subsequent revisions of the BMPMP and NMMP.  (c) Section 6.3 of the NMMP describes 'Action Limits' during attended noise monitoring and section 7.2 of the NMMP describes noise mitigation measures to reduce a noise			



Item No.	Condition	Requirement	Finding	Non-compliances or Recommendations	Action	Date Required
			exceedance to below the action limit (e.g. elimination by using a new design, plant or equipment). The NMMP includes sufficient content relating to the Concrete Batching Plant. Refer to non-compliance below in relation to the BMPMP and TBMP.  (d) Sections 6.1 and 6.2 of the NMMP and section 6.1 of the BMPMP include details of noise monitoring programs (i.e. monitoring locations and frequency).  (e) Section 6 of the BMPMP and sections 7.2.2 and 7.3 of the TBMP describe blast management measures that			
			would be implemented to ensure compliance with the blast criteria and operating conditions of this approval, for example:  • instrumentation used and procedures will be in accordance with AS 2817.2-2006 (section 6.1 of the BMPMP); and			
			all blasting data is electronically uploaded from the monitors four times daily (section 6.3 of the BMPMP).  (f) The BMPMP and TBMP include a blast			
			<ul> <li>monitoring program that:</li> <li>evaluates the performance of the project, including compliance with the applicable blasting criteria (section 6.2 of the BMPMP);</li> </ul>			
			uses a combination of at least one roving monitor and at least			



Item No.	Condition	Requirement	Finding  six fixed monitors (section 6.1 of the BMPMP);  includes a protocol for determining and responding to exceedances of the relevant conditions of this approval (sections 7.1 and 7.3 of the BMPMP and section 10 of the TBMP).	Non-compliances or Recommendations	Action	Date Required
8	PA 07_0018 Sch3 Cond32	Waste  The Proponent shall:  (a) minimise the waste generated by the project; and  (b) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.	Regulated waste inclusive of: a) waste oils; b) waste grease; c) hydrocarbon contaminated rags; d) oil filters etc, are removed by external service provider, Toxfree (i.e. part of the Cleanaway network of companies).  Batteries are temporarily stored and removed of site for recycling.  Used heavy vehicle tyres are either repaired or used for demarcation of haul and access roads around the site. Used light vehicle tyres are removed off site to commercial suppliers that manage this waste stream.  External provider, Broken Hill Skip Bins, is contracted to supply and remove general domestic waste to landfill.  It was stated that a glass and aluminum/steel can recycler has recently reopened in Broken Hill which may be utilised by BHOP.	Non-compliant (low risk)  Whilst most regulated waste and recyclable products are segregated at source, no formal program has been developed and implemented by BHOP to continue to proactively review, identify and implement additional programs to minimise waste going to landfill and the volume of waste being recycled (i.e. BHOP waste minimisation plans should formally include existing and planned programs to reduce waste in the future).	Non-compliant (low risk)  BHOP will develop waste reduction strategies.	31 Mar 2019



Item No.	Condition	Requirement	Finding	Non-compliances or Recommendations	Action	Date Required
			Some waste cardboard and paper is segregated and transported to the Broken Hill City Council (BHCC) facilities for collection.			
			Septic waste from the site is collected by a third-party contractor (i.e. Silver Sweep) and transported to the BHCC Sewerage Treatment Plant (STP).			
			Licensed waste contractors that remove regulated waste off-site utilise the NSW EPA on-line waste tracking process and define the relevant electronic EPA Tracking Numbers on the submitted service reports/invoices. These records are received by BHOP stores and forwarded to BHOP accounts in hard copy.			
9	PA 07_0018 Sch3 Cond33A	Waste  The Proponent must update the Waste Management Plan required by condition 33 of this approval by December 2017, unless the Secretary agrees otherwise. The updated plan must include: (a) a long-term waste management strategy; and (b) an action plan for the implementation of the key measures proposed to achieve the strategy.  Following approval, the Proponent must implement the plan.	It was stated that BHOP only had a period of three months to lodge a suitable Waste Management Plan (WMP) when MOD4 was approved in September 2017.	Non-compliant (low risk)  In relation to the WMP:  No documented record exists to demonstrate that BHOP submitted an updated WMP to the Secretary for approval prior to December 2017 (i.e. the current 2012 WMP was not submitted and the draft WMP (V4), dated January 2019, has not been issued).  BHOP's current 2012 WMP (Rev 2) does not define the action plan (i.e. actions, responsibilities and timeframes) for effective and improved waste management across the operation.	Non-compliant (low risk)  The updated WMP with action plan has been submitted and approved in June 2019.	Complete



