

# APPENDIX D1

## PROPOSED OUTCOMES

# BIRD IN HAND GOLD PROJECT

## MINING LEASE PROPOSAL MC 4473



ABN | 66 122 765 708

Unit 7 / 202-208 Glen Osmond Road | Fullarton SA 5063

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TABLE 1 | TRAFFIC DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No impact to third party infrastructure caused by mining activities	Investigation of all public infrastructure related complaints demonstrates that the Mine Operator did not cause or could not reasonably have prevented the incident from occurring; and all public infrastructure related complaints were acknowledged within 48 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.	None proposed
No traffic accidents occur involving the public and mine traffic that could have been reasonably prevented	Independent investigation of all traffic accidents involving the public are completed in 14 days, or as agreed with the Director of Mines, and demonstrate that the mine operator could not have reasonably prevented the accident from occurring.	None proposed

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
	Truck driver check sheets will be completed for all ore trucks leaving site to demonstrate loads are covered and in compliance with agreed hours of operation <sup>1</sup> .	
	Daily inspection of entry/exit points demonstrates no build-up of dragout material at the site entrance on Pfeiffer Road is occurring. Reported by exception.	

TABLE 2 | VISUAL AMENITY DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No impact to visual amenity caused by use of colour and/or materials of built structures related to mining activities	Construct to Design Audit of Strategic Visual Amenity Plan and Construction Plan <sup>2</sup> completed by a suitably qualified and experienced independent party within three months of completion of surface construction.	None proposed
	Construct to Design Audit of Landscape Amenity bunding completed by a suitably qualified and experienced independent party within three months of completion of construction.	None proposed
	Annual photopoints at viewpoints identified in the SVAP demonstrate that the new landforms are integrated into the existing landscape, existing vegetation has not been cleared and has been expanded upon, and all surfaces have been softened to blend in with the natural colour palette.	None proposed
	Mine records show that progressive rehabilitation of the IML area was conducted in accordance with the Mine Closure and Rehabilitation Plan in the PEPR.	None proposed
No impact to visual amenity caused by the clearance of boundary vegetation within CT/6055/379	Annual assessment of vegetation clearance, measured using a combination of GIS software, ground surveys (e.g. photos) and/or aerial surveys of the existing ML boundary and fencelines (shown in <b>Error! Reference source not found.</b> ) demonstrates no clearance of existing boundary and fenceline vegetation unless pre-authorised by the Mining Lease Proposal.	None proposed

<sup>1</sup> Final agreed hours as defined by approved PEPR

<sup>2</sup> Note that this Construction Plan is proposed to be developed during preparation of the PEPR

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
Designated rehabilitation sites are established self-sustaining systems.	Annual assessment until Lease surrender, or at a frequency as recommended by an independent and suitably qualified expert (to Chief Inspector of Mining's satisfaction) using Landscape Function Analysis (LFA), until LFA monitoring have achieved, or by trends, may be confidently predicted to reach and pass sustainability thresholds as defined by LFA (Sustainability thresholds for each parameter are interpreted as the points of maximum curvature on the sigmoidal curve shape as per Tongway and Hindley (2005).	Evidence of establishment of native plant species on designated rehabilitation areas within 12 months of construction and no degradation over two years of LFA indices for stability, infiltration and nutrient cycling when compared to control sites.
No public nuisance or loss of amenity caused by external lighting from mining activities	Outdoor lighting will be audited post construction by a suitably qualified and experienced independent party within three months of completion of surface construction to demonstrate compliance with AS4282 – 'Control of the obtrusive effects of outdoor lighting'	None proposed

TABLE 3 | GROUNDWATER PROPOSED OUTCOME AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	The Mine Manager will ensure that monthly drawdown (SWL) measurements recorded by site staff in monitoring wells X, Y and Z (installed monitoring piezometers) and private bores A, B and C are compared with dewatering model predictions for the 70% grouting effective groundwater modelling scenario, presented in Table X and are within 2 standard errors of model predictions for two consecutive readings. <sup>3</sup>	Observed drawdown in monitoring wells X, Y and Z (installed monitoring piezometers) falls outside of 2 standard errors of model predictions for one reading. <sup>3</sup>
	The Mine Manager will ensure that monitoring of the water quality of the injectant (mine water) from the WTP during re-injection, undertaken on a monthly basis for field parameters TDS, pH and NTU <sup>4</sup> shows that field TDS and pH (and any other parameter of concern as determined by MAR trial) is as per DEW drainage permit conditions, and turbidity is below 5 NTU; or as per DEW drainage permit conditions, confirmed by Laboratory major ion testing of the injectant using a NATA accredited laboratory on a monthly basis.	Field TDS of the blended injectant greater than 2 standard errors of baseline data for each well (mg/L) or as per DEW drainage permit conditions. Field measurement of turbidity is above DEW drainage permit conditions or EPA Water Quality Guidelines.

<sup>3</sup> Locations to be determined through the PEPR development

<sup>4</sup> any metals of concern in the source water will be determined during PEPR development

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator
	The Mine Manager will ensure that head impress at re-injection monitoring wells X, Y and Z is recorded and reviewed by site personnel on a monthly basis during re-injection to ensure that head impress is less than or equal to the defined fracture pressure level <sup>3,5</sup> .	Impress head recorded at re-injection monitoring wells X, Y and Z is greater than or equal to XXX kPa. <sup>3,7</sup>
	The Mine Manager will ensure that monitoring of the water quality of the injectant (mine water) from the WTP during re-injection, undertaken on a monthly basis for field parameters TDS, pH and NTU <sup>6</sup> shows that field TDS and pH (and any other parameter of concern as determined by MAR trial) is as per DEW drainage permit conditions, and turbidity is below 5 NTU; or as per DEW drainage permit conditions, confirmed by Laboratory major ion testing of the injectant using a NATA accredited laboratory on a monthly basis.	Field TDS of the blended injectant greater than 2 standard errors of baseline data for each well (mg/L) or as per DEW drainage permit conditions. Field measurement of turbidity is above 5 NTU or as per DEW drainage permit conditions.
	The Mine Manager will ensure that the volume of water injected into re-injection wells during re-injection is recorded by site personnel on a weekly basis from flow meters installed on each well head to confirm that the total injection rate was maintained between XXXX and XXXX KL/day during mining operations <sup>3,7</sup> .	None proposed
	The Mine Manager will ensure that monthly drawdown (SWL) measurements recorded by site staff in groundwater divide <sup>8</sup> monitoring wells D, E and F are compared with re-injection model predictions for the 70% grouting effective groundwater modelling scenario, presented in Table X and are within 2 standard errors of model predictions for two consecutive readings. <sup>3</sup>	Observed drawdown in groundwater divide monitoring wells D, E and F falls outside 2 standard errors of model predictions for one reading.
	Addition of streamflow monitor for baseflow for Inverbrackie Creek Groundwater modelling (data obtained from proposed ML and groundwater monitoring network) to be reviewed and recalibrated annually and demonstrates the groundwater model is reflective of aquifer changes (water levels with 2 standard errors of modelled levels and accounting for seasonal variation, water quality of injected water as per DEW drainage permits).	Numerical models to be reviewed and recalibrated after 6 months of operations if measurements fall outside of 2 standard error limits (observed versus predicted SWL).

<sup>5</sup> Maximum injection pressures to be determined through DEW drainage permits for each well and PEPR development

<sup>6</sup> any metals of concern in the source water will be determined PEPR development

<sup>7</sup> To be determined during PEPR development

<sup>8</sup> Monitoring wells to be installed between reinjection system and Dawesley Creek groundwater divide

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator
	Constructed to design audit of MAR system within 3 months of completion of construction demonstrates MAR system is functioning as designed	
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	Monitoring, recording, reporting of water volume abstraction and reinjection demonstrates compliance with licence/lease conditions	Mine water volume inflows exceeds modelled volume, over a 3 month period, reviewed quarterly
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	<p>All chemical and hydrocarbon spills are remediated to meet EPA standards within 48 hours of the spill, or a longer time agreed by the Chief Inspector of Mines.</p> <p>Provision of a report once prior to entering closure monitoring phase by a suitably qualified site contamination consultant verifies that a site contamination assessment and if required remediation in accordance with the NEPM and relevant EPA legislation/guidelines has occurred, ensuring there is no unacceptable risk to human health or the environment as a result of the contamination when compared with relevant baseline concentrations and relevant NEPM investigation levels.</p>	NA

TABLE 4 | SURFACE WATER DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	During rainfall events which generate runoff, three samples will be taken to measure turbidity at the car park, south-western drainage line, central drainage line and at the overflow point of the surface water retention dam as per sampling method AS/NZS 5667.1:1998 standards. A paired t-test will demonstrate that turbidity at the car park, south-western drainage line and at the overflow point of the surface water retention dam is not significantly greater (p-value $\leq$ t-test value) from the mean of the samples taken at Inverbrackie Creek upstream of the ML at that point in time.	<p>Monitoring will demonstrate turbidity is less than or equal to upstream monitoring sites of the Petaluma boundary and/or the Bird in Hand road boundary drain.</p> <p>After high rainfall events which generate runoff, records of visual inspections of silt traps, the surface water retention dam, and surface drainage systems demonstrates that silt volumes are no more than 50% of trap capacity and there is no breach in walls.</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
	<p>Triplicate surface water samples will be undertaken monthly (when flowing) at Inverbrackie Creek Downstream and Upstream sampling locations as per AS/NZS 5667.1:1998 for pH, EC, TDS, turbidity, SO42-, sulphur, calcium, poly aromatic hydrocarbons/total petroleum hydrocarbons, benzene, toluene, ethylbenzene and xylene compounds and lead<sup>9</sup>. A paired t-test will demonstrate that water quality downstream is not significantly greater as a result of mining activities (p-value ≤ t-test value) from the mean of the samples taken at Inverbrackie Creek upstream of the ML at that point in time.</p> <p>All chemical and hydrocarbon spills are remediated to meet EPA standards within 48 hours of the spill, or a longer time agreed by the Director of Mines.</p>	<p>Live monitoring to be installed at Inverbrackie Creek downstream and upstream and significant elevations<sup>10</sup> in downstream Electrical Conductivity will be investigated to determine whether water has emanated from Goldwyn.</p> <p>If yes, sampling will be undertaken as per OMC undertaken as per OMC.</p> <p>None proposed</p>
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	Annual assessment until Lease surrender, or at a frequency as recommended by a suitably qualified and experienced independent party, of rehabilitation success and landscape function measured using standardised LFA monitoring techniques at proposed monitoring sites as agreed between the Director of Mines and the Tenement Holder demonstrates the self-sustainability (success) of rehabilitated areas, when compared to baseline monitoring	Evidence of establishment of native plant species on designated rehabilitation areas 12 months after progressive rehabilitation
No adverse impacts to soil quality or quantity on surrounding land caused by mining activities	Construct to Design Audit of water storage dam completed by a suitably qualified and experienced independent party within 3 months of completion of surface construction demonstrates water storage dam was constructed to design specifications.	None proposed

<sup>9</sup> Sulphur, calcium and lead occur at levels within the ore and mullock at levels above background water quality, making them effective indicators of AMD/NMD from the operating site.

<sup>10</sup> Trigger values be determined through the PEPR development

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
	Quarterly prism surveying in dam walls shows no differential movement in survey prisms demonstrating geotechnical stability of dam embankments	None proposed
	Monthly surveying of water level against survey monitoring points demonstrates water level is below designed freeboard levels (“trigger levels”) <sup>11</sup> .	None proposed

TABLE 5 | SOIL AND LAND QUALITY DRAFT OUTCOMES AND MEASUREMENT CRITERIA

<sup>11</sup> Freeboard levels to be determined during final construction design of water storage dam.

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No adverse impacts to soil quality or quantity within the mining lease caused by mining activities that could compromise the post mining land use</p> <p>No adverse impacts to soil quality or quantity on surrounding land caused by mining activities</p>	Annual review of soil movement records, including topsoil available / stockpiled for closure, shows no measurable decline in soil quality or quantity	A materials balance of topsoil available / stockpiled for closure demonstrates requirements are met or identifies a deficiency.
	Annual mine records demonstrate all areas of PAF and ASS encountered were appropriately contained and/or treated	None proposed
	All chemical and hydrocarbon spills are remediated to meet EPA guidelines within 48 hours of the spill, or a longer time agreed by the Chief Inspector of Mines.	All topsoil stockpiles located on the proposed ML will be annually sampled as per AS4482.1-2005 standards. Any results higher than topsoil baseline samples will be investigated and appropriate actions taken.
	Records will be kept of volumes of putrescible waste taken offsite to demonstrate disposal of all potentially polluting waste has been taken to an approved EPA site and in accordance with the Waste Management Plan	None proposed
	<p>During rainfall events which generate runoff, three samples will be taken to measure turbidity at the car park, south-western drainage line, central drainage line and at the overflow point of the surface water retention dam as per sampling method AS/NZS 5667.1:1998 standards.</p> <p>A paired t-test will demonstrate that turbidity at the car park, south-western drainage line and at the overflow point of the surface water retention dam is not significantly greater (<math>p\text{-value} \leq t\text{-test value}</math>) from the mean of the samples taken at Inverbrackie Creek upstream of the ML at that point in time.</p>	After high rainfall events which generate runoff, records of visual inspections of silt traps, the surface water retention dam, and surface drainage systems demonstrates that silt volumes are no more than 50% of trap capacity and there is no breach in walls.
	Provision of a report once prior to entering closure monitoring phase by a suitably qualified site contamination consultant verifies that a site contamination assessment and if required remediation in accordance with the NEPM and relevant EPA legislation/guidelines has occurred, ensuring there is no unacceptable risk to human health or the environment as a result of the contamination when compared with relevant baseline concentrations and relevant NEPM investigation levels.	None proposed

<p>All land on the mining lease affected by mining and associated activities is rehabilitated to achieve the agreed post mining land use.</p>	<p>Independent audit at mine completion demonstrates all reasonable actions have been taken to achieve post mining land use, where this use has been agreed with stakeholders. Independent audit at mine completion confirms all land in the mining lease is suitable for the agreed post mining land uses.</p>	<p>None proposed</p>
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**TABLE 6 | GEOCHEMISTRY AND GEOHAZARDS DRAFT OUTCOMES AND MEASUREMENT CRITERIA**

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No impact to third party infrastructure caused by mining activities</p> <p>No public injuries or fatalities as a result of mining activities.</p>	<p>A letter of compliance summarizing an Independent Geotechnical review (including void assessment) will be submitted annually to demonstrate that less than 15% of underground production levels will remain open at level completion and that the top 100m of the mine contains less than 35% of these voids.</p>	<p>Surveyed plans and representative sections (showing all underground workings, backfill volumes and any completed production level) will be submitted annually to the Chief Inspector of Mines to demonstrate less than 10% of underground production levels will remain open at level completion.</p> <p>Surface survey monitoring will be undertaken every six months at 9 fixed survey stations located along Bird in Hand Road to demonstrate no movement greater than 50 mm from the base coordinates, or as compared to 5 control sites along Pfeiffer Road.</p> <p>Two fixed survey prisms located underground will be monitored quarterly to demonstrate no movement greater than 5 mm from the base coordinates</p>

TABLE 7 | SITE CONTAMINATION DRAFT OUTCOMES AND MEASURABLE CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No adverse impacts to public health as a result of any contaminated material from land disturbed by mining activities.</p>	<p>Report submitted to the Mining Regulator demonstrating compliance against SCMP within three months of completion of disturbance of the identified existing contamination zones.</p>	<p>Annual public safety review does not identify additional actions that could reasonably be taken to reduce risks to the public.</p>
	<p>Investigation of all contaminated material related complaints demonstrates that the Mine Operator did not cause or could not reasonably have prevented the incident from occurring; and all contaminated material related complaints were acknowledged within 48 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines. If complaints were not resolved the Mine Operator conducted further investigations to demonstrate that contaminated material movements complied with the outcome achievement values as agreed by the Chief Inspector of Mines.</p>	<p>Annual public safety review does not identify additional actions that could reasonably be taken to reduce risks to the public.</p>
<p>No adverse impacts to soil quality or quantity within the mining lease caused by mining activities that could compromise the post mining land use</p>	<p>Annual review of soil movement records, including topsoil available / stockpiled for closure, shows no measurable decline in soil quality or quantity</p>	<p>A materials balance of topsoil available / stockpiled for closure demonstrates requirements are met or identifies a deficiency.</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No adverse impacts to soil quality or quantity within the mining lease caused by mining activities that could compromise the post mining land use</p> <p>No adverse impacts to soil quality or quantity on surrounding land caused by mining activities</p>	<p>Annual mine records demonstrate all areas of PAF and ASS encountered were appropriately contained and/or treated</p>	<p>None proposed</p>
<p>No adverse impacts to soil quality or quantity within the mining lease caused by mining activities that could compromise the post mining land use</p> <p>No adverse impacts to soil quality or quantity on surrounding land caused by mining activities</p>	<p>All chemical and hydrocarbon spills are remediated to meet EPA standards within 48 hours of the spill, or a longer time agreed by the Chief Inspector of Mines.</p>	<p>All topsoil stockpiles located on the proposed ML will be annually sampled as per AS4482.1-2005 standards. Any results higher than topsoil baseline samples will be investigated and appropriate actions taken.</p>
<p>No adverse impacts to soil quality or quantity within the mining lease caused by mining activities that could compromise the post mining land use</p> <p>No adverse impacts to soil quality or quantity on surrounding land caused by mining activities</p>	<p>Provision of a report once prior to entering closure monitoring phase by a suitably qualified site contamination consultant verifies that a site contamination assessment and if required remediation in accordance with the NEPM and relevant EPA legislation/guidelines has occurred, ensuring there is no unacceptable risk to human health or the environment as a result of the contamination when compared with relevant baseline concentrations and relevant NEPM investigation levels.</p>	<p>None proposed</p>

TABLE 8 | AIR QUALITY DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points<sup>12</sup> using standardised monitoring techniques and demonstrates that annual average does not exceed 4 g/m<sup>2</sup>.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite.</p>
<p>No public nuisance impacts to local residents from dust generated by construction, mining or closure activities.</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points<sup>13</sup> using standardised monitoring techniques and demonstrates that annual average does not exceed 4 g/m<sup>2</sup> to ensure no nuisance impacts to local residents from dust generated by construction, mining or closure activities.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite.</p>
	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points<sup>14</sup> using standardised monitoring techniques and demonstrates that annual average does not exceed 90 ug/m<sup>3</sup> to ensure no loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p>	<p>TSP concentrations do not exceed 120 ug/m<sup>3</sup> (24 hour).</p>
	<p>Annual review of real time PM10 measurements demonstrates that during the previous reporting period that the site has operated in line with the air quality TARP.</p>	<p>None proposed</p>

<sup>12</sup> Monitoring locations to be determined by the air quality model and by an independent suitably qualified and experienced expert

<sup>13</sup> Monitoring locations to be determined by the air quality model and by an independent suitably qualified and experienced expert

<sup>14</sup> Monitoring locations to be determined by the air quality model and by an independent suitably qualified and experienced expert

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No public health impacts to the public from dust generated by construction, mining or closure activities.</p> <p>No public nuisance impacts to local residents from dust generated by construction, mining or closure activities.</p>	<p>Investigation of all dust related complaints demonstrates that the Mine Operator did not cause or could not reasonably have prevented the incident from occurring; and all dust related complaints were acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.</p>	<p>None proposed</p>
<p>No public health impacts to the public from dust generated by construction, mining or closure activities.</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points<sup>15</sup> demonstrates PM<sub>10</sub> at sensitive receivers is in accordance with the Air Quality Impact Assessment using a BAM unit demonstrates that 24-hour average PM<sub>10</sub> concentration does not exceed 50 µg/m<sup>3</sup> to ensure no public health impacts to local residents from dust generated by construction, mining or closure activities</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no longer be required.</p>	<p>Annual public safety review does not identify additional actions that could reasonably be taken to reduce risks to the public.</p>

<sup>15</sup> Monitoring locations to be determined by the air quality model and by an independent suitably qualified and experienced expert through the PEPR development

TABLE 9 | NOISE DRAFT OUTCOMES AND MEASURABLE CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No public nuisance impacts from mining activities from noise caused by mining activities</p>	<p>Noise generated from the mining lease during operation activities, measured live at predefined monitoring points<sup>16</sup> demonstrates noise at sensitive receptors is in accordance with the Environment Protection (Noise) Policy 2007, and does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Construction &amp; closure - 57 dB(A) 7am-10pm</p> <p>Underground development - 57 dB(A) 7am-10pm - 50 dB(A) 10pm-7am.</p> <p>Ore production - 52 dB(A) 7am-10pm - 45 dB(A) 10pm-7am.</p> <p>The above noise levels may only be exceeded if the Chief Inspector of Mines:</p> <ul style="list-style-type: none"> <li>- is satisfied, on the basis of information provided to him/her by an acoustic engineer, that the noise will not cause an adverse impact at the sensitive receptor due to the existing influence of ambient noise, or the limited duration and/or frequency of occurrence of the activity; and</li> <li>- provides prior approval for the exceedance.</li> </ul>	<p>Noise generated from the mining lease during operation activities, measured at sensitive receptors in accordance with the Environment Protection (Noise) Policy 2007, does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Ore production - 47 dB(A) 7am-10pm - 40 dB(A) 10pm-7am.</p> <p>Demonstrate the Trigger Action Response Plan has been followed.</p>
	<p>Mine records demonstrate all noise complaints (construction, operation and closure) acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.</p>	<p>Demonstrate the Trigger Action Response Plan has been followed.</p>

<sup>16</sup> Monitoring locations to be determined by the acoustic model and by an independent suitably qualified and experienced expert

TABLE 10 | AIR-OVERPRESSURE AND VIBRATION DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	draft Leading Indicator Criteria
No adverse impact on public health or amenity from air overpressure, flyrock and vibration caused by blasting.	All blasting in accordance with Australian Standard AS2187.2.2006 Use of explosive, and demonstrates vibration levels caused by blasting are less than 5mm/s peak particle velocity at the nearest sensitive receptor for 95% of blasts per year, with a maximum of 10 mm/s peak particle velocity for any one blast, or higher limit as agreed with individual sensitive receptors.	All complaints acknowledged in 48 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.
	All blasting in accordance with Australian Standard AS2187.2.2006 'Use of explosive' and demonstrates peak air-overpressure level caused by blasting are less than 115 dBL at the nearest sensitive receptor for 95% of blasts per year, with a maximum of 120 dBL or higher limit as agreed with individual sensitive receptors.	All complaints acknowledged in 48 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.
	All blast times and charge weights will be recorded in a register to demonstrate all construction blasting exceeding XXXkg* charge weight will only be conducted between 10am and 6pm.  * Maximum allowable weight to be proposed and approved through the PEPR development once final surface blast designs finalised.	None proposed
No adverse impact to heritage buildings from air overpressure, flyrock and vibration caused by blasting.	All blasting demonstrates vibration levels caused by blasting are less than 15mm/s peak particle velocity at the Lone Hand Chimney.	None proposed

TABLE 11 | FAUNA AND PESTS DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No introduction of new species of declared weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing declared weed or pest species on the mining lease caused by mining activities</p>	<p>Annual assessment until Lease surrender, or at a frequency as recommended by a suitably qualified and experienced independent party of fauna abundance and diversity measured through standardised fauna monitoring techniques (call recordings, active searching and/or bird surveys) at permanent fauna monitoring sites demonstrates:</p> <ul style="list-style-type: none"> <li>• no new declared pest species (including feral animals) have become established on the lease; and</li> <li>• there has not been a statistically significant increase in abundance of existing declared pest species (including feral animals) on the lease area.</li> </ul> <p>when compared to baseline avifauna surveys conducted prior to the commencement of operations and accounting for seasonal variation (regional trends) and mine/IML areas.</p>	<p>None proposed</p>
<p>No fauna injuries or deaths (excluding pests) caused by mining activities that could reasonably have been prevented, due to construction, operation and closure activities</p>	<p>Investigations of all native fauna deaths or injuries recorded on the lease demonstrate that the mine operator did not cause, or could not have reasonably prevented, the deaths or injuries occurring.</p>	<p>An incident register is to be maintained of all native fauna injuries or deaths identified by site personnel or the public. The register will be reviewed monthly and results will be presented in monthly site management reports prepared by the Mine Manager. The review will include the identification of any procedural changes required.</p>
	<p>Annual review of safety systems and maintenance of fire breaks shows that these were maintained and demonstrates that the mine operator did not cause, or could not have reasonably prevented, the deaths or injuries occurring.</p>	<p>None proposed</p>

TABLE 12 | VEGETATION AND WEEDS DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>Designated rehabilitation sites are established self-sustaining systems.</p>	<p>Annual assessment until Lease surrender, or at a frequency as recommended by an independent and suitably qualified expert (to Chief Inspector of Mining’s satisfaction) using Landscape Function Analysis (LFA), until LFA monitoring have achieved, or by trends, may be confidently predicted to reach and pass sustainability thresholds as defined by Landscape Function Analysis (Sustainability thresholds for each parameter are interpreted as the points of maximum curvature on the sigmoidal curve shape as per Tongway and Hindley (2005).</p>	<p>Evidence of establishment of native plant species on designated rehabilitation areas 12 months after progressive rehabilitation</p>
<p>No permanent loss of abundance, condition or diversity of native vegetation (as defined by Native Vegetation Act 1991) on or off the lease caused by mining activities through;</p> <ul style="list-style-type: none"> <li>- Clearance</li> <li>- dust/contamination depositions</li> <li>- fire</li> <li>- reduction in water supply, or</li> <li>- other damage</li> </ul> <p>unless otherwise approved under Native Vegetation Act 1991 and Native Vegetation Regulations 2017 is obtained</p>	<p>Annual assessment until Lease surrender, or at a frequency as recommended by a suitably qualified and experienced independent party of native vegetation abundance, condition and diversity measured through standardised flora monitoring techniques (e.g. quadrats and/or transects such as Bushland Condition Monitoring) at permanent flora monitoring sites demonstrates no permanent loss of abundance or diversity of native flora species or communities due to mining operations, when compared to baseline flora surveys conducted prior to the commencement of operations.</p> <p>Annual assessment of native vegetation clearance, measured using a combination of GIS software, ground surveys and/or aerial surveys of the operational areas demonstrates that the total clearance area does not exceed the approved clearance. Records are to be kept of vegetation clearance approvals.</p>	<p>None proposed</p>
	<p>Monthly dust deposition and TSP monitoring using standardised monitoring techniques at nominated sites<sup>17</sup>, demonstrates that annual average dust deposition including background dust deposition does not exceed 4 g/m<sup>2</sup>/month and that annual average TSP concentration does not exceed 90 ug/m<sup>3</sup>.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite. TSP concentrations do not exceed 120 ug/m<sup>3</sup> (24 hour).</p>

<sup>17</sup> Monitoring locations to be determined by the air quality model and by an independent suitably qualified and experienced expert through the PEPR development

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No introduction of new species of declared weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing declared weed or pest species on the mining lease caused by mining activities	Survey demonstrates: <ul style="list-style-type: none"> <li>- no new species of declared weeds or feral animals have become established on the lease</li> <li>- there has not been a statistically significant increase in abundance of existing weed or pest species in the Project area (Project site), compared to baseline studies and accounting for seasonal variation (regional trends).</li> </ul>	

TABLE 13 | HERITAGE DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No disturbance to Aboriginal heritage sites, objects or remains, unless prior approval is obtained from the relevant minister, pursuant to the Aboriginal Heritage Act 1988.	<p>Mine records demonstrate that appropriate authorisation has been obtained under the Aboriginal Heritage Act prior to the commencement of any activities that will disturb known Aboriginal objects and sites.</p> <p>If new Aboriginal objects or sites are discovered, work that may affect the objects or sites is ceased until appropriate authorisation under the Aboriginal Heritage Act is provided.</p> <p>Records are to be kept of land disturbance permits being approved by the Mine Manager prior to any works commencing.</p>	None proposed
No disturbance to non-Aboriginal heritage sites or objects, unless prior approval is obtained from the relevant minister, pursuant to the Heritage Places Act 1993.	<p>Mine records demonstrate that annual photo monitoring of known heritage sites was undertaken to demonstrate no damage by mining activities.</p> <p>Records are to be kept of land disturbance permits being approved by the Mine Manager prior to any works commencing.</p>	None proposed
No adverse impact to heritage buildings from air overpressure, flyrock and vibration caused by blasting.	All blasting demonstrates vibration levels caused by blasting are less than 15mm/s peak particle velocity at the Lone Hand Chimney.	None proposed

TABLE 14 | AGRICULTURE DRAFT OUTCOME AND MEASUREABLE CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates average dust deposition at sensitive receivers is in accordance with the Air Quality Impact Assessment using standardised monitoring techniques and demonstrates that annual average does not exceed 4 g/m<sup>2</sup> to ensure no loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no longer be required.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite.</p>
<p>No introduction of new species of declared weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing declared weed or pest species on the mining lease caused by mining activities</p>	<p>Survey demonstrates:</p> <ul style="list-style-type: none"> <li>- no new species of declared weeds or feral animals have become established on the lease</li> <li>- there has not been a statistically significant increase in abundance of existing weed or pest species in the Project area (Project site), compared to baseline studies and accounting for seasonal variation (regional trends).</li> </ul>	<p>An incident register is to be maintained of any new declared weeds or pests identified by site personnel. The register will be reviewed monthly and results will be presented in monthly site management reports prepared by the Mine Manager. The review will include the identification of any procedural changes required.</p>
<p>No impact to agricultural/viticultural production from weed management activities on the mining lease</p>	<p><i>Annual review of Phytophthora and Phylloxera Management Plan at Bird in Hand demonstrates all procedures regarding Phytophthora and Phylloxera Management have been adhered to.</i></p> <p><i>Annual review of chemicals register onsite demonstrates no Group I, Phenoxy Acid herbicides or Genetically Modified Organism wetting agents have been used</i></p>	<p>None proposed</p>
<p>No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems</p>	<p>Construct to Design Audit of water storage dam completed by a suitably qualified and experienced independent party within 3 months of completion of surface construction demonstrates water storage dam was constructed to design specifications.</p> <p>Quarterly prism surveying in dam walls shows no differential movement in survey prisms demonstrating geotechnical stability of dam embankments</p>	<p>None proposed</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems</p>	<p>The Mine Manager will ensure that monthly drawdown (SWL) measurements recorded by site staff in monitoring wells X, Y and Z (installed monitoring piezometers) and private bores A, B and C (shown in Figure X) are compared with dewatering model predictions for the 70% grouting effective groundwater modelling scenario, presented in Table X and are within 2 standard errors of model predictions for two consecutive readings.</p>	<p>Observed drawdown in monitoring wells X, Y and Z (installed monitoring piezometers) falls outside of 2 standard errors of model predictions for one reading.</p>
	<p>The Mine Manager will ensure that monitoring of the water quality of the injectant (mine water) from the WTP during re-injection, undertaken on a monthly basis for field parameters TDS, pH and NTU<sup>18</sup> shows that field TDS and pH (and any other parameter of concern as determined by MAR trial) is as per DEWNR drainage permit conditions, and turbidity is below 5 NTU; or as per DEWNR drainage permit conditions, confirmed by Laboratory major ion testing of the injectant using a NATA accredited laboratory on a monthly basis.</p>	<p>Field TDS of the blended injectant greater than 2 standard errors of baseline data for each well (mg/L) or as per DEW drainage permit conditions. Field measurement of turbidity is above 5 NTU or as per DEWNR drainage permit conditions.</p>
<p>No public injuries or fatalities as a result of fires originating in the proposed mining lease that could have been reasonably prevented.</p> <p>No impact to third party infrastructure caused by mining activities.</p>	<p>Annual review of safety systems and maintenance of fire breaks shows that these were maintained and demonstrates that the mine operator did not cause, or could not have reasonably prevented, the deaths or injuries occurring.</p>	<p>None proposed</p>

TABLE 15 | SOCIAL DRAFT OUTCOMES AND MEASUREMENT CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>Compliance with Air Quality, Noise, Visual Amenity and Water Outcome Measurable Criteria demonstrates no impact to surrounding business from mining activities</p>	<p>See OMC for Air Quality, Noise, Visual Amenity and Water</p>	<p>None proposed</p>

<sup>18</sup> any metals of concern in the source water will be determined during MAR trials conducted during PEPR development

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	The Mine Manager will ensure that monthly drawdown (SWL) measurements recorded by site staff in monitoring wells X, Y and Z (installed monitoring piezometers) and private bores A, B and C (shown in Figure X) are compared with dewatering model predictions for the 70% grouting effective groundwater modelling scenario, presented in Table X and are within 2 standard errors of model predictions for two consecutive readings.	Observed drawdown in monitoring wells X, Y and Z (installed monitoring piezometers) falls outside of 2 standard errors of model predictions for one reading.
No adverse impact to the quantity or quality of water caused by the mining activities to existing and future licenced users and water dependant ecosystems	The Mine Manager will ensure that monitoring of the water quality of the injectant (mine water) from the WTP during re-injection, undertaken on a monthly basis for field parameters TDS, pH and NTU shows that field TDS and pH (and any other parameter of concern as determined by MAR trial) is as per DEW drainage permit conditions, and turbidity is below 5 NTU; or as per DEW drainage permit conditions, confirmed by Laboratory major ion testing of the injectant using a NATA accredited laboratory on a monthly basis.	Field TDS of the blended injectant greater than 2 standard errors of baseline data for each well (mg/L) or as per DEW drainage permit conditions. Field measurement of turbidity is above 5 NTU or as per DEW drainage permit conditions.
Terramin is committed to working with communities to maximise the benefits and minimise the impacts resulting from our activities	Annual compliance reporting demonstrates Terramin has delivered on commitments made to the community.	None proposed
No nuisance or health impacts to local residents from dust, air emissions, or light spill generated by construction, mining or closure activities.	Regular monitoring of water, air quality and live time reporting Refer to OMC for Air Quality; Geotech & Blasting; Traffic Site & Visual Amenity	Refer to LIC for Air Quality; Geotech & Blasting; Traffic Site & Visual Amenity
No nuisance or health impacts to local residents from dust, air emissions, or light spill generated by construction, mining or closure activities.	See OMC for public safety	See LIC for public safety
No nuisance or health impacts to local residents from dust, air emissions, or light spill generated by construction, mining or closure activities.	Independent audits and data collection throughout mine life, at mine completion demonstrates high standards maintained, made available to public through annual reporting.	None proposed
No traffic accidents occur involving the public and mine traffic that could have been reasonably prevented	Independent investigation of all traffic accidents involving the public are completed in 14 days, or as agreed with the Director of Mines, and demonstrate that the mine operator could not have reasonably prevented the accident from occurring.	None proposed

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No impact to third party infrastructure caused by mining activities	Evidence that agreements are in place with DPTI and/or Council requirements regarding asphalt or other infrastructure damage.	None proposed

<p>No nuisance or health impacts to local residents from dust, air emissions, or light spill generated by construction, mining or closure activities.</p>	<p>"Noise generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates noise at sensitive receivers is in accordance with the Environment Protection (Noise) Policy 2007, and does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Construction &amp; closure - 57 dB(A) 7am-10pm</p> <p>Underground development - 57 dB(A) 7am-10pm - 50 dB(A) 10pm-7am.</p> <p>Ore production - 52 dB(A) 7am-10pm - 45 dB(A) 10pm-7am.</p> <p>The above noise levels may only be exceeded if the Chief Inspector of Mines:</p> <ul style="list-style-type: none"> <li>- is satisfied, on the basis of information provided to him by an acoustic engineer, that the noise will not cause an adverse impact at the sensitive receiver due to the existing influence of ambient noise, or the limited duration and/or frequency of occurrence of the activity; and</li> <li>- provides prior approval for the exceedance.</li> </ul> <p>Mine records demonstrate all noise complaints (construction, operation and closure) acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.</p>	<p>Noise generated from the mining lease during operation activities, measured at sensitive receptors in accordance with the Environment Protection (Noise) Policy 2007, does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Ore production - 47 dB(A) 7am-10pm - 40 dB(A) 10pm-7am.</p> <p>Demonstrate the Trigger Action Response Plan has been followed.</p>
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Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No impact to visual amenity caused by the use of colour and/or materials of built structures related to mining activities	Continued use of CSIRO Pulse Survey and/or introduction of an annual survey to demonstrate the level of perceived impact of BiHGP operations in the community.	Monitoring of community complaints (to report increases)
Terramin is committed to working with communities to maximise the benefits and minimise the impacts resulting from our activities	Annual compliance reporting demonstrates Terramin has delivered on commitments made to the community.	None proposed
No adverse impact on public amenity from vibration or air overpressure caused by blasting. Compliance criteria based on protection of personal amenity	Air overpressure levels as a result of blasting activities are less than 115 dB(Lin Peak) at the nearest sensitive receptor for 95 per cent of blasts per year, with a maximum of 120 dB (Lin Peak) for any one blast, in accordance with Australian Standard AS2187.2.2006 Use of explosives.	None proposed
All land on the mining lease affected by mining and associated activities is rehabilitated to achieve the agreed post mining land use.	Independent audit at mine completion demonstrates all reasonable actions have been taken to achieve post mining land use , where this use has been agreed with stakeholders.  Independent audit at mine completion confirms all land in the mining lease is suitable for the agreed post mining land uses.	None proposed
No adverse impacts on soil quality or quantity within the mining lease that could compromise the post mining land use	Annual review of soil movement records, including topsoil available / stockpiled for closure, shows no measurable decline in soil quality or quantity	A materials balance of topsoil available / stockpiled for closure demonstrates requirements are met or identifies a deficiency.
All road and intersection upgrades are conducted in accordance with technical standards provided in writing by the Department for Planning Transport and Infrastructure	Audit within 3 months of completion of work confirms technical standards met	None proposed
No traffic accidents occur involving the public and mine traffic that could have been reasonably prevented	Independent investigation of all traffic accidents involving the public are completed in 14 days, or as agreed with the Director of Mines, and demonstrate that the mine operator could not have reasonably prevented the accident from occurring.	None proposed

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site	<p>During rainfall events which generate runoff, three samples will be taken to measure turbidity at the car park, south-western drainage line, central drainage line and at the overflow point of the surface water retention dam as per sampling method AS/NZS 5667.1:1998 standards.</p> <p>A paired t-test will demonstrate that turbidity at the car park, south-western drainage line and at the overflow point of the surface water retention dam is not significantly greater (p-value <math>\leq</math> t-test value) from the mean of the samples taken at Inverbrackie Creek upstream of the ML at that point in time.</p>	None proposed

TABLE 16 | ECONOMIC DRAFT MEASURABLE AND OUTCOME CRITERIA

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
No impact to visual amenity caused by the use of colour and/or materials of built structures related to mining activities	<p>Construct to Design Audit of Strategic Visual Amenity Plan and Construction Plan[1] completed by a suitably qualified and experienced independent party within 3 months of completion of surface construction.</p> <p>Annual photopoints at viewpoints identified in the Strategic Visual Amenity Plan (SVAP) established and demonstrate that the SVAP is being adhered to.</p>	None proposed
Compliance with Air Quality, Noise, Visual Amenity and Water Outcome Measurement Criteria demonstrates no impact to surrounding business from mining activities	See OMC for Air Quality, Noise, Visual Amenity and Water	None proposed

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No public nuisance impacts to local residents from dust generated by construction, mining or closure activities</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates average dust deposition at sensitive receivers is in accordance with the Air Quality Impact Assessment using standardised monitoring techniques and demonstrates that annual average does not exceed 4 g/m<sup>2</sup> to ensure no nuisance impacts to local residents from dust generated by construction, mining or closure activities.</p> <p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates average TSP concentrations at sensitive receivers is in accordance with the Air Quality Impact Assessment using standardised monitoring techniques and demonstrates that annual average does not exceed 90 ug/m<sup>3</sup> to ensure no loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p> <p>Investigation of all dust related complaints demonstrates that the Mine Operator did not cause or could not reasonably have prevented the incident from occurring; and all dust related complaints were acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines. If complaints were not resolved the Mine Operator conducted dust monitoring to demonstrate that dust emissions complied with the outcome achievement values as agreed by the Chief Inspector of Mines.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite.</p> <p>TSP concentrations do not exceed 120 ug/m<sup>3</sup> (24 hour).</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p>	<p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates average dust deposition at sensitive receivers is in accordance with the Air Quality Impact Assessment using standardised monitoring techniques and demonstrates that annual average does not exceed 4 g/m<sup>2</sup> to ensure no nuisance impacts to local residents from dust generated by construction, mining or closure activities.</p> <p>Dust generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates average TSP concentrations at sensitive receivers is in accordance with the Air Quality Impact Assessment using standardised monitoring techniques and demonstrates that annual average does not exceed 90 ug/m<sup>3</sup> to ensure no loss of productivity on properties surrounding the mining lease from dust generated by construction, mining or closure activities.</p> <p>If these levels are obtained for 12 months post-closure, monitoring will no long be required.</p> <p>Investigation of all dust related complaints demonstrates that the Mine Operator did not cause or could not reasonably have prevented the incident from occurring; and all dust related complaints were acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines. If complaints were not resolved the Mine Operator conducted dust monitoring to demonstrate that dust emissions complied with the outcome achievement values as agreed by the Chief Inspector of Mines.</p>	<p>Monthly dust deposition from mining activities not to exceed 4 g/m<sup>2</sup>/month onsite.</p> <p>TSP concentrations do not exceed 120 ug/m<sup>3</sup> (24 hour).</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No public nuisance impacts from construction, operation and closure activities from noise emanating from the operating site</p>	<p>Noise generated from the mining lease during operation activities, measured live at predefined monitoring points demonstrates noise at sensitive receivers is in accordance with the Environment Protection (Noise) Policy 2007, and does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Construction &amp; closure - 57 dB(A) 7am-10pm</p> <p>Underground development - 57 dB(A) 7am-10pm - 50 dB(A) 10pm-7am.</p> <p>Ore production - 52 dB(A) 7am-10pm - 45 dB(A) 10pm-7am.</p> <p>The above noise levels may only be exceeded if the Chief Inspector of Mines:</p> <ul style="list-style-type: none"> <li>- is satisfied, on the basis of information provided to him by an acoustic engineer, that the noise will not cause an adverse impact at the sensitive receiver due to the existing influence of ambient noise, or the limited duration and/or frequency of occurrence of the activity; and</li> <li>- provides prior approval for the exceedance.</li> </ul> <p>Mine records demonstrate all noise complaints (construction, operation and closure) acknowledged within 2 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Chief Inspector of Mines.</p>	<p>Noise generated from the mining lease during operation activities, measured at sensitive receivers in accordance with the Environment Protection (Noise) Policy 2007, does not exceed the following noise limit (averaged over 15 minutes):</p> <p>Ore production - 47 dB(A) 7am-10pm - 40 dB(A) 10pm-7am.</p> <p>Demonstrate the Trigger Action Response Plan has been followed.</p>

Draft Outcome	Draft Measurement Criteria	Draft Leading Indicator Criteria
<p>No adverse impact on public amenity from vibration or air overpressure caused by blasting. Compliance criteria based on protection of personal amenity</p>	<p>In accordance with Australian Standard AS2187.2.2006 Use of explosive:</p> <ul style="list-style-type: none"> <li>• Vibration levels caused by blasting are less than 5mm/s peak particle velocity at the nearest sensitive receptor for 95% of blasts per year, with a maximum of 10 mm/s peak particle velocity for any one blast, or higher limit as agreed with individual sensitive receptors.</li> <li>• Peak air-overpressure level caused by blasting are less than 115 dBL at the nearest sensitive receptor for 95% of blasts per year, with a maximum of 120 dBL or higher limit as agreed with individual sensitive receptors.</li> <li>• Blasts exceeding a charge weight of XXXkg to be conducted between 1.30 pm and 6 pm</li> </ul>	<p>All complaints acknowledged in 48 hours and closed out within 14 days to the satisfaction of the complainant or as agreed with the Director of Mines.</p>
<p>No introduction of new species of declared weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing declared weed or pest species on the mining lease caused by mining activities</p>	<p>Survey demonstrates:</p> <ul style="list-style-type: none"> <li>- no new species of declared weeds or feral animals have become established on the lease</li> <li>- there has not been a statistically significant increase in abundance of existing weed or pest species in the Project area (Project site), compared to baseline studies and accounting for seasonal variation (regional trends).</li> </ul>	<p>An incident register is to be maintained of any new declared weeds or pests identified by site personnel. The register will be reviewed monthly and results will be presented in monthly site management reports prepared by the Mine Manager. The review will include the identification of any procedural changes required.</p>
<p>No adverse impact to the supply or quality of water by the mining operations to existing users and water dependant ecosystems</p>	<p>The Mine Manager will ensure that monthly drawdown (SWL) measurements recorded by site staff in monitoring wells X, Y and Z (installed monitoring piezometers) and private bores A, B and C (shown in Figure X) are compared with dewatering model predictions for the 70% grouting effective groundwater modelling scenario, presented in Table X and are within 2 standard errors of model predictions for two consecutive readings.</p>	<p>Observed drawdown in monitoring wells X, Y and Z (installed monitoring piezometers) falls outside of 2 standard errors of model predictions for one reading.</p>
<p>No adverse impact to the supply or quality of water by the mining operations to existing users and water dependant ecosystems</p>	<p>The Mine Manager will ensure that monitoring of the water quality of the injectant (mine water) from the WTP during re-injection, undertaken on a monthly basis for field parameters TDS, pH and NTU[1] shows that field TDS and pH (and any other parameter of concern as determined by MAR trial) is as per DEW drainage permit conditions, and turbidity is below 5 NTU; or as per DEW drainage permit conditions, confirmed by Laboratory major ion testing of the injectant using a NATA accredited laboratory on a monthly basis.</p>	<p>Field TDS of the blended injectant greater than 2 standard errors of baseline data for each well (mg/L) or as per DEW drainage permit conditions. Field measurement of turbidity is above 5 NTU or as per DEW drainage permit conditions.</p>