



Licence Number	L8907/2015/1
Licence Holder	Big Bell Gold Operations Pty Ltd
ACN	ACN 090 642 809
File Number:	DER2015/001593
Premises	Central Murchison Gold Project – Day Dawn Mining Tenements: M21/17, M21/14, M21/44, M21/89 and M21/10 As depicted in Schedule 1
Date of Amendment	10/07/2019

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Alana Kidd

Manager, Resource Industries

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6919 info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review
Licence Holder	Big Bell Gold Operations Pty Ltd
m ³	cubic metres
mbgl	metres below ground level
Minister	the Minister responsible for the EP Act and associated regulations
mg/L	Milligrams per litre
mtpa	million tonnes per annum
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
Prescribed Premises	has the same meaning given to that term under the EP Act.

Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
tpa	Tonnes per annum

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

This notice is limited only to an amendment for Category 6, which is the only Prescribed Premises category on Licence L8907/2015/1.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

The Licence Holder has applied to amend Licence L8907/2015/1 to allow water to be pumped from Kinsella to the South Fingall pit, one kilometre (km) west of Kinsella. Kinsella is located on Mining Tenement M21/10 and therefore the Licence Holder has requested to add this Mining Tenement to the Prescribed Premise.

The Kinsella Project was originally approved under Notice of Intent (NOI) 5023. Mining features approved under NOI 5023 were not constructed and the project area remains undisturbed by mining operations, except for historic workings, which date back to the late 1980s. The Department of Mines, Industry Regulation and Safety approved the Kinsella mining proposal on 13 May 2019. The Licence Holder intends on undertaking the required clearing for this project in accordance with Clearing Permit CPS 8293/1, which was granted on 7 February 2019, for the purpose of mineral production. Any additional clearing required for the construction of the pipeline is likely to be exempt from requiring a clearing permit in accordance with Regulation 5, Item 20 of the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*.

Addition of South Fingall pit as an emission point

The Licence Holder proposes to dewater the Kinsella pit to a depth of 35m below surface. The current standing water level at the Kinsella bore is 11.2m.

L8907/2015/1 currently permits dewatering of the Great Fingall, South Fingall South and Yellow Taxi pits, with discharge into the Try Again pit, 3210 pit and Lake Austin. Expected dewatering and discharge capacities for each pit and discharge locations are detailed in Table 2 below (Westgold Resources Limited, 2019).

Table 2: Day Dawn water balance

	2018	2019	2020
Initial Capacity Dewatering	Tonnes per annum (tpa)		
Yellow Taxi Pit	440,000	-	-
South Fingall Pit	-	-	-
Great Fingall Pit	375,000	-	-
Golden Crown/Great Fingall UG	-	300,000	700,000
Kinsella Pit	-	200,000	-
Inflow Dewatering			
Yellow Taxi Pit	120,000	150,000	-
South Fingall Pit	-	200,000	-
Golden Crown/Great Fingall UG	-	300,000	300,000
Total Dewatering	935,000	1,150,000	1,000,000
Dust Suppression	100,000	100,000	50,000
Excess to Lake Austin	560,000	250,000	800,000
Excess to Try Again or 3210 Pit	275,000	600,000	100,000
Total Discharge	835,000	850,000	900,000

A 225mm high density polyethylene (HDPE) fully welded pipeline with a pressure rating of PN25 is installed between Great Fingall, Try Again and 3210, and between Yellow Taxi and Lake Austin. A similar type of pipeline will be installed to connect the existing pipeline network to Kinsella and South Fingall. Telemetry is fitted to all pipelines to detect leaks and automatically shuts off pumps in the event of pipeline failure (Westgold Resources Limited, 2019).

South Fingall pit will act as an intermediate storage point (with a freeboard level of 5m) prior to being pumped to Try Again.

The Licence currently allows for the discharge of 950,000 tonnes per annum (tpa) of dewatering into the environment and the Licence Holder is proposing to increase this to 1,150,000tpa.

A trailer mounted diesel powered TF80/180 pump is installed at each of the Great Fingall and Yellow Taxi pits. A similar portable pump will be located at Try Again, 3210 or South Fingall pits to facilitate pumping to Lake Austin when required. A trailer mounted diesel powered TF80/180 pump will also be installed at Kinsella pit to facilitate pumping to the South Fingall Pit.

Water quality at the Kinsella bore and South Fingall pit was sampled on 4 April 2019. The water quality results are depicted in Table 3 below.

Table 3: Water quality results for Kinsella bore and South Fingall pit as of 4 April 2019

Analyte	Units	South Fingall pit	Kinsella bore
pH	pH	7.9	8.5
Conductivity	µmho/cm	7900	3900
Dissolved Solids	mg/L	4400	1600
Carbonate	mg/L	< 1	40
Bicarbonate	mg/L	170	860
Alkalinity	mg CaCO ₃ /L	140	770
Acidity	mg CaCO ₃ /L	7	<5
Chloride	mg/L	2200	720
Sulfate	mg/L	420	97
Fluoride	mg/L	0.3	<0.1
Nitrite	mg/L	0.4	0.4
Nitrate	mg/L	4.7	4.5
Calcium	mg/L	240	69
Magnesium	mg/L	190	50
Potassium	mg/L	27	37
Silicon	mg/L	27	20
Sodium	mg/L	1000	410
Hardness	mg CaCO ₃ /L	1400	380
Aluminium	mg/L	< 0.01	<0.005
Arsenic	mg/L	0.008	0.21
Cadmium	mg/L	< 200E-6	<0.0001
Chromium	mg/L	0.003	<0.001
Cobalt	mg/L	< 0.002	0.002
Copper	mg/L	< 0.002	<0.001
Iron	mg/L	< 0.01	0.006
Lead	mg/L	< 0.002	<0.001
Manganese	mg/L	< 0.002	0.43
Molybdenum	mg/L	0.003	<0.001
Nickel	mg/L	< 0.002	0.001
Selenium	mg/L	0.006	<0.001
Zinc	mg/L	< 0.01	<0.005
Mercury	mg/L	< 50E-6	< 50E-6

Water quality at the Kinsella bore has been sampled for 20 years between 1998 and 2018. Table 4 below shows the results of this data.

Table 4: Kinsella Bore Water Quality Data

Date	Units	Dec-98	Apr-99	Jan-00	Sep-01	May-05	Jul-12	Sep-12	Mar-13	Sep-13	Jan-14	Dec-14	Dec-15	Mar-17	Jul-18	Dec-18
Ca	mg/L		36	98	81	85	8		130	96	110	91	19	36	63	72
Mg	mg/L		31	64	58	47	2.91				66	57	9.3	23	40	49
Na	mg/L		200	560	570	410	16				430	410	57	170	310	370
K	mg/L		7.7	21	18	14	2.6				28	20	4.2	7.8	12	37
HCO ₃	mg/L		80	308	290		24			92	76	260	< 5	60	140	890
SO ₄	mg/L		74	175	180	180	27			330	420	250	89	230	250	96
Cl	mg/L		300	905	840	930	47			660	670	610	91	210	420	710
TDS	mg/L	2200	1300	2150	1700	1800	256	2100	1400	1900	2000	1600	350	770	1200	1500
EC				3800	3200	3300	418	3400	2000	2700	3000	2800	570	1300	2200	3700
pH	pH	7.9	8	7.85	7.75	7.9	7.1	7.7	6.9	7.3	7.5	7.9	7.5	7.9	8.2	8.3
NO ₃	mg/L		56	8.1	3.4	3.9	2.9		110	89	130	0.6		29	24	32
CO ₃	mg/L		<1	<1	<1	<1	<1			<5	<5	<1	<1	<1	<1	4
Alkalinity	mg CaCO ₃ /L						24			870	76	210	25	49	120	740
As	mg/L			<1			<0.03		<0.05	0.015	<0.05	0.035	0.005	0.009	0.024	0.21
Pb	mg/L			<1		0.036	<0.02		<0.03	0.001	<0.03	<0.001	<0.001	<0.001	<0.001	<0.001
Ni	mg/L					<0.005	<0.00 5		<0.02	0.003	<0.02	<0.001	<0.001	<0.001	<0.001	0.001
Zn	mg/L			<0.01		0.24	<0.01		0.06	0.1	0.07	<0.005	0.014	<0.005	<0.005	<0.005
Cr	mg/L			<1		0.004	<0.00 5		<0.01	0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
Al	mg/L					0.064	0.03		0.2	0.12	<0.1	<0.005	0.021	<0.005	<0.005	<0.005

Date	Units	Dec-98	Apr-99	Jan-00	Sep-01	May-05	Jul-12	Sep-12	Mar-13	Sep-13	Jan-14	Dec-14	Dec-15	Mar-17	Jul-18	Dec-18
Cd	mg/L			19		<0.001	<0.00 2		<0.01	<0.0001	<0.01	<0.000 1	<0.000 1	<0.0001	<0.0001	<0.0001
Hg	mg/L		<0.0000 5	0.004 3					<0.0000 5	<0.0000 5		<0.000 0 5	<0.000 0 5	<0.0000 5	<0.0000 5	<0.0000 5
Hardness	mg CaCO ₃ /L		220	510	440		33				540	460	87	180	320	380
Cu	mg/L			<1		0.018	<0.00 5		0.01			<0.001	0.002	<0.001	<0.001	0.001
Fe	mg/L		0.25	0.05	0.01	0.06	0.029							<0.005	0.012	0.011
Mn	mg/L	<0.05	<0.05	<0.01	0.01	<0.001	0.056							0.013	0.045	0.42
Si	mg/L			0.05		37						28	7.3	21	24	19
Se	mg/L			<0.01										0.002	<0.001	<0.001
F	mg/L													0.3	0.3	<0.1
NO ₂	mg/L													<0.2	<0.2	7
Co	mg/L													<0.001	<0.001	0.002

Table 5 below outlines the proposed changes to the Licence.

Table 5: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
6	950,000 tonnes per year	1,150,000 tonnes per year	Dewater an additional 200,000 tonnes per year from the Kinsella pit into the South Fingall pit.

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 6.

Table 6: Relevant approvals

Legislation	Number	Approval
<i>Mining Act 1978</i>	Reg ID 54830 August 2015	Approval for dewatering activities and underground and open pit operations
	Reg ID 79172 May 2019	Approval to expand the Kinsella footprint
<i>Rights in Irrigation and Water Act 1914</i>	GWL 176056(2) expires 12 March 2029	Abstraction of up to 11,900,000 kL of water for dewatering purposes.
<i>Environmental Protection Act 1986</i>	CPS 8293/1	Approval to clear 26.87 hectares of native vegetation within Mining Leases: 21/10, 21/89, 21/97, 21/122 and 21/123.

Amendment history

Table 7 provides the amendment history for L8907/2015/1.

Table 7: Licence amendments

Instrument	Issued	Amendment
L8907/2015/1	3 December 2018	Amendment Notice 1 to: <ul style="list-style-type: none"> • Include the 3210 mined pit as a dewatering discharge location and settlement pond. • Remove the transfer dam, used as a settlement facility prior to discharge to Lake Austin, and instead utilise the 3210 and Try Again pits as settlement facilities prior to discharge to Lake Austin. • Reduce the current minimum freeboard in the Try Again pit from 10 metres to 5 metres.
L8907/2015/1	10 July 2019	Amendment Notice 2 to: <ul style="list-style-type: none"> • Add Mining Tenement M21/10 to the Prescribed Premise • To allow water to be pumped from Kinsella to the South Fingall pit • Include the South Fingall pit as a dewatering discharge location • Increase Category 6 discharge by 200,000 tonnes per year

Location and receptors

Table 8 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 8: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Austin Downs homestead	Approximately 4 km to the west of the Premises
Cue (town)	Approximately 7km north of the Premises

Table 9 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 9: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Surface water	<p>Lake Austin is located approximately 8km south east of the Kinsella Project and is a large inland salt lake system that has a total surface area of 773 km² (including islands). Surface and groundwater flows drain centrally into the lake which is predominantly flat, with water depth generally ranging from 0.5 to 2.0m deep, however the lake usually remains dry for long periods of time.</p> <p>Previous sampling of the surface waters show a highly saline environment with a TDS range of between 14,000 mg/L to 250,000 mg/L, alkaline with a pH of 7.53 to 8.65 and the concentration of most metals and trace elements below detection with the exception of copper, which exceeds the ANZECC value for marine waters (0.008 mg/L).</p>
Groundwater	<p>Groundwater at the Premises ranges between 16 to 39 mbgl (measured standing water levels in the pits prior to dewatering). Groundwater depth at the Kinsella pit is approximately 10 metres below ground level.</p> <p>Salinity measured as TDS ranges from 1,200mg/L at Kinsella pit, 38,000 to 40,000 mg/L at the Try Again, 3210 and Great Fingall pits and up to 114,000 mg/L at the Yellow Taxi pit which is closest to Lake Austin. Groundwater at Lake Austin is up to 250,000 mg/L. Groundwater salinity at the Premises increases with depth with reading up to 85,000 mg/L TDS being previously recorded.</p> <p>There are no nearby groundwater users due to the high salinity.</p>
Native Vegetation	<p>A Level 1 Flora Assessment was conducted in 2012 for the construction of the Premises. No vegetation associations present within the study area were unique or confined to the boundaries of the study area. None of the 40 potentially occurring conservation significant species were identified or collected during the field assessment.</p> <p>Vegetation within the Premise ranges from completely degraded to very good. The whole survey area shows signs of disturbance due to historical and present mining activities and previous pastoral use.</p>
Public Drinking Water Source Area – Cue Water Reserve	Approximately 6km north east of the Premises

Risk assessment

Tables 10 and 11 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 10: Risk assessment for proposed amendments during construction

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Category 6 - Dewatering	Installation of a pipeline between Kinsella pit and South Fingall pit	Dust: associated with construction activities and clearing	Austin Downs Homestead 4 km away Surrounding vegetation	Air: Transport through air	Human health impacts – respiratory illness Smothering of vegetation which may prevent photosynthesis and plant respiration	Slight	Unlikely	Low	Minimal dust is expected to be generated during construction/installation of the new pipeline. The distance to residential receptors is considered to be too great for dust impacts from construction to occur. Any potential dust emissions can be regulated by section 49 of the EP Act.
		Noise: associated with construction activities	Austin Downs Homestead 4 km away	Air: Transport through air	Human health impacts	Slight	Unlikely	Low	The distance to residential receptors is considered to be too great for noise impacts from construction/installation of the new pipeline to occur. The provisions of the Noise Regulations are applicable.

Table 11: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
<p>Category 6 - Dewatering</p>	<p>Operation of a new pipeline between Kinsella pit and South Fingall pit</p>	<p>Discharge to the environment as a result of pipeline rupture</p>	<p>Vegetation Soils Groundwater Water quality within the South Fingall pit</p>	<p>Direct discharge</p>	<p>Changes to soil salinity levels impacting health and survival of flora Direct impact on vegetation due to uptake of saline water.</p>	<p>Minor</p>	<p>Possible</p>	<p>Moderate</p>	<p>Impacts on groundwater as a result of pipeline failure are not expected as groundwater salinity is lower at Kinsella. Groundwater salinity increases towards the south west of the project (towards Lake Austin). Therefore the receiving environment will have a higher groundwater salinity than the water being pumped from Kinsella.</p> <p>The vegetation in the area of the dewatering pipeline is degraded due to historical pastoral and mining activities and current operations at the Premises.</p> <p>The Licensee has committed to conducting daily inspections of the pipeline in accordance with existing Licence conditions for pipelines.</p> <p>The pipelines are fitted with telemetry systems and pressure sensors to detect any leaks.</p> <p>The impacts from dewatering water on vegetation due to pipeline failure will be minor due to limited vegetation cover from historical pastoral and mining activities and current operations at the Premises. The likelihood of an occurrence is possible. The risk rating for dewatering discharge to vegetation, soils and groundwater due to pipeline failure are therefore moderate. Licence conditions for the management of dewatering pipelines already exist and therefore no further regulatory controls are required.</p>

	Discharge of mine dewatering effluent into the South Fingall pit	Dewatering effluent to groundwater	Groundwater dependent native vegetation	Direct interaction with pit water and groundwater	Contamination of local groundwater aquifers with saline water	Minor	Possible	Moderate	<p>Groundwater salinity increases towards the south west of the project (towards Lake Austin). The dewatering effluent water from the Kinsella area will have a lower salinity level than at the emission point of South Fingall pit. Therefore the water quality in the South Fingall pit is not expected to change with the addition of the dewatering effluent from the Kinsella pit.</p> <p>No groundwater dependent vegetation is located at the Premises.</p> <p>Impacts from discharging dewatering effluent into the South Fingall pit will be minor due to the better quality of the discharge than that of the receiving environment. The likelihood of an occurrence is possible due to the pit being mined below the water table. The risk rating for discharging dewatering effluent to the South Fingall pit is therefore moderate.</p> <p>Existing conditions on the Licence for the discharge of dewatering effluent into the Try Again pit and 3210 pit will be amended to include the South Fingall pit.</p>
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Decision

The Delegated Officer has determined that the discharge of dewatering effluent into the South Fingall pit represents a Moderate risk to groundwater, however these risks may be acceptable subject to the regulatory controls outlined below.

Condition 1.3.3 has been amended to include the South Fingall pit as containment infrastructure. The Delegated Officer determined that a five metre freeboard for the South Fingall pit is sufficient as impacts on groundwater as a result of overtopping are not expected due to high salinity levels in the groundwater and the quality of the dewatering effluent being better than the groundwater at the emission point.

Condition 1.3.6 has been amended to include the South Fingall pit for the inspection of infrastructure. The Delegated Officer determined that daily inspection of integrity of the pipeline and the visual inspection of the freeboard is sufficient to ensure an appropriate level of environmental protection is being maintained.

Condition 1.3.7 has been amended to include the construction of the dewatering pipeline between the Kinsella pit and South Fingall pit. The Delegated Officer has determined that the current design and construction requirements are sufficient and that any rupture to the pipeline would have a moderate impact on the environment due to high salinity levels in the groundwater and the quality of the dewatering effluent and groundwater being similar.

Condition 2.3.1 has been amended to include the South Fingall pit as an emission point. The map of emissions points in Schedule 1 has also been updated to reflect the addition of this emission point.

Condition 3.3.1 is amended to include monitoring of the discharge into the South Fingall pit. A new map has been included into Schedule 1 showing the monitoring locations at the 3210, Try Again and South Fingall pits.

The Delegated Officer has determined that the discharge of dewatering effluent to the environment due to pipeline failure as a moderate risk to the environment, however this risk can be adequately managed through existing conditions in the Licence, with no additional regulatory controls required to mitigate this risk.

The Delegated Officer has determined to grant an Amendment to Licence to L8907/2015/1 subject to condition amendments outlined above.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 8 July 2019. The Licence Holder responded on 8 July 2019 waiving the remaining consultation period.

Amendment

1. The Premises address on Page 1 of the licence has been amended by insertion of the bold text shown in underline below:

Mining Tenements: M21/17, M21/14, M21/44, M21/89 **and M21/10**

2. The Prescribed Premises category table on Page 1 of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

Category Number	Category description	Category production or design capacity	Approved Premises production or design capacity
6	Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	50,000 tonnes or more per year	950,000 1,150,000 tonnes per annual period

3. Condition 1.3.3 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

1.3.3 The Licensee shall ensure that dewatering effluent is discharged into dams with the relevant infrastructure requirements and at the location specified in Table 1.3.1 and identified in Schedule 1.

Table 1.3.1: Containment infrastructure

Containment point reference	Dam number(s)	Material	Infrastructure requirements
Try Again pit, and 3210 pit and South Fingall pit	-	Dewatering effluent	A minimum freeboard of 5 metres is maintained

4. Condition 1.3.6 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

1.3.6 The Licensee shall:

- (a) undertake inspections as detailed in Table 1.3.2;
- (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
- (c) maintain a record of all inspections undertaken.

Table 1.3.2: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Mine dewatering pipelines	Visual integrity	Daily
Try Again pit, and 3210 pit and South Fingall pit	Visual to confirm a freeboard of 5 metres is available	Daily

5. Condition 1.3.7 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

1.3.7 The Licensee must install and undertake the works for the infrastructure and equipment:

- (a) specified in Column 1; and
- (b) to the requirements specified in Column 2; of Table 1.3.3 below.

Table 1.3.3: Infrastructure and equipment requirements table

Column 1	Column 2
Infrastructure	Requirements (design and construction)
Dewatering discharge pipeline associated with the 3210 pit and South Fingall pit	<p>Pipeline must be constructed of High Density Polyethylene (HDPE) with a pressure rating of PN25.</p> <p>Installed to connect the existing dewatering pipeline network to the 3210-discharge pit.</p> <p>Telemetry is fitted to detect leaks and automatically shuts off pumps in the event of pipeline failure.</p>

6. Condition 2.3.1 of the Licence is amended by the insertion of the bold text shown in underline below:

2.3.1 The Licensee shall ensure that where waste is emitted to groundwater from the emission point in Table 2.3.1, and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this Licence.

Table 2.3.1: Emission points to groundwater

Emission point reference	Description	Source including abatement
Try Again pit, and 3210 pit and South Fingall pit	Discharge of dewatering effluent into the Try Again pit, 3210 pit and South Fingall pit	Water from dewatering of the mine pits and underground operations.

7. Condition 3.3.1 of the Licence is amended by the deletion of the text shown in strike through below and the insertion of the bold text shown in underline below:

3.3.1 The Licensee shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.

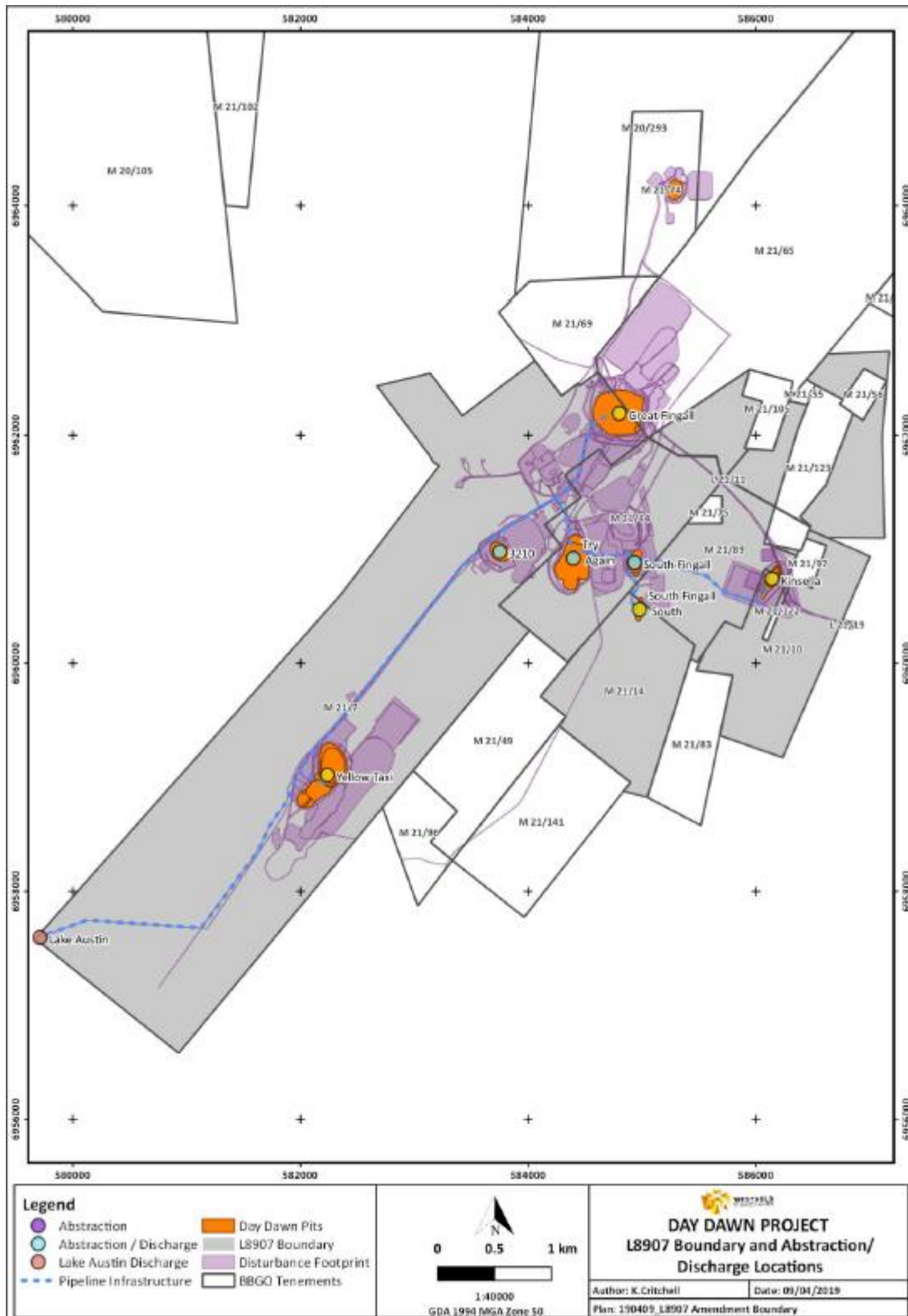
Table 3.3.1: Monitoring of point source emissions to groundwater

Emission point reference	Parameter	Units	Averaging period	Frequency
Try Again pit, and 3210 pit and South Fingall dewatering discharge sampling points	Volumetric flow rate	m ³ /day	Monthly	Continuous
	Total Dissolved Solids and Total Suspended Solids	mg/L	Spot sample	Quarterly
	pH ¹	-		
	Aluminium, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Sulfate and Zinc	mg/L		Biannual

Note 1: In-field non-NATA accredited analysis permitted.

8. Schedule 1 'Premises map' and 'Map of emission points' are amended by the deletion of the maps and are replaced with a new map as shown below:

The Premises is shown in the map below. The area shaded grey depicts the Premises.



9. Schedule 1 'Map of monitoring locations' is amended by the deletion of the map and is replaced with a new map as shown below:

The locations of the monitoring points defined in Tables 2.3.1 and 3.3.1 are shown below.



Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L8907/2015/1 – Central Murchison Gold Project – Day Dawn	L8907/2015/1	accessed at www.dwer.wa.gov.au
2	Works Approval W5356/2013/1– Big Bell Gold Operations Pty Ltd – Day Dawn	W5356/2013/1	
3	Licence Amendment Notice 1, 3 December 2018	L8907/2015/1	accessed at www.dwer.wa.gov.au
4	Licence amendment application for Licence L8907/2015/1, received on 10 April 2019	Westgold Resources Limited (2019)	DWER record A1780652
5	Guidance Statement: <i>Environmental Siting</i> , November 2016	-	accessed at www.dwer.wa.gov.au
6	Guidance Statement: <i>Setting Conditions</i> , October 2015	-	
7	Guidance Statement: Risk Assessments, February 2017	-	
8	Guidance Statement: <i>Decision Making</i> , February 2017	-	