

## A. Statement of Compliance - Licence Details

**ALL Licence holders must check that the Licence details in Section A are correct.**

If there are changes to any of these details, **you must advise Environment Protection Authority (EPA) and apply as soon as possible for a variation to your Licence or for a Licence transfer.**

Licence variation and transfer application forms are available on the EPA website at: <http://www.epa.nsw.gov.au/licensing-and-regulation/licensing> or from regional offices of the EPA, or by contacting by telephone 02 9995 5700.

If you are applying to vary or transfer your Licence, you must still complete and submit this Annual Return.

### A1. Licence holder

**Licence number** : 20095  
**Licence holder** : BIG ISLAND MINING PTY LTD  
**Trading name (if applicable)** :  
**ABN** : 12 112 787 470  
**ACN** : 112 787 470  
**Reporting period** : From: 1-7-2018 To: 30-6-2019

### A2. Premises to which Licence Applies (if applicable)

**Common name (if any)** : Dargues Gold Mine  
**Premises** : Majors Creek Road MAJORS CREEK 2622 NSW

### A3. Activities to which Licence Applies

Crushing, grinding or separating  
 Mining for minerals

### A4. Other Activities (if applicable)

### A5. Fee-Based Activity Classifications

**Note** that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Mining for minerals	> 0.00 - 30,000.00	T annual production capacity
Crushing, grinding or separating	> 0.00 - 30,000.00	T annual processing capacity

## A6. Assessable Pollutants (if applicable)

**Note** that the identification of assessable pollutants is used to calculate the **load-based fee**.  
The following assessable pollutants are identified for the fee-based activity classifications in the licence:

## B. Monitoring and Complaints Summary

### B1. Number of Pollution Complaints

Pollution Complaint Category	Complaints
Air	0
Water	0
Noise	66
Waste	0
Other	3
<b>Total complaints recorded by the licensee during the reporting period</b>	<b>69</b>

### B2. Concentration Monitoring Summary

For each concentration monitoring point identified in your licence, details are displayed below. If concentration monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

**Note** that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

#### Monitoring Point 38

**Dust Deposition Gauge, At the location marked "DD-1" on the map labelled "Figure 1.4 Surrounding Residences and Air Quality Monitoring Locations" of the "EPL 20095 Sampling Locations for the Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Particulates - Deposited Matter	grams per square metre per month	12	12	0.30	2.36	8.80

#### Monitoring Point 39

**Dust Deposition Gauge, At the location marked "DD-2" on the map labelled "Figure 1.4 Surrounding Residences and Air Quality Monitoring Locations" of the "EPL 20095 Sampling Locations for the Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Particulates - Deposited Matter	grams per square metre per month	12	12	0.30	1.68	4.30

### Monitoring Point 40

Dust Deposition Gauge, At the location marked "DD-3" on the map labelled "Figure 1.4 Surrounding Residences and Air Quality Monitoring Locations" of the "EPL 20095 Sampling Locations for the Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Particulates - Deposited Matter	grams per square metre per month	12	12	0.30	2.12	7.00

### Monitoring Point 41

Dust Deposition Gauge, At the location marked "DD-4" on the map labelled "Figure 1.4 Surrounding Residences and Air Quality Monitoring Locations" of the "EPL 20095 Sampling Locations for the Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Particulates - Deposited Matter	grams per square metre per month	12	12	0.20	1.69	6.90

### Monitoring Point 42

Dust Deposition Gauge, At the location marked "DD-5" on the map labelled "Figure 1.4 Surrounding Residences and Air Quality Monitoring Locations" of the "EPL 20095 Sampling Locations for the Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Particulates - Deposited Matter	grams per square metre per month	12	12	0.20	2.42	7.40

## Monitoring Point 47

Groundwater Monitoring - Regolith Aquifer, At the location marked "DRWB05" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	0	0	0
Arsenic	micrograms per litre	4	4	0	0	0
Cadmium	micrograms per litre	4	4	0	0	0
Calcium	milligrams per litre	4	4	0	0	0
Chloride	milligrams per litre	4	4	0	0	0
Chromium	micrograms per litre	4	4	0	0	0
Cobalt	micrograms per litre	4	4	0	0	0
Dissolved Oxygen	milligrams per litre	4	4	0	0	0
Electrical conductivity	microsiemens per centimetre	4	4	0	0	0
Iron	micrograms per litre	4	4	0	0	0
Lead	micrograms per litre	4	4	0	0	0
Magnesium	micrograms per litre	4	4	0	0	0
Manganese	micrograms per litre	4	4	0	0	0
Mercury	micrograms per litre	4	4	0	0	0
Nickel	micrograms per litre	4	4	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0	0	0
pH	pH	4	4	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0	0	0
Phosphorus (total)	milligrams per litre	4	4	0	0	0
Potassium	milligrams per litre	4	4	0	0	0

Redox potential	milligrams per litre	4	4	0	0	0
Sodium	milligrams per litre	4	4	0	0	0
Sulfate	milligrams per litre	4	4	0	0	0
Temperature	degrees Celsius	4	4	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0	0	0
Zinc	micrograms per litre	4	4	0	0	0

### Monitoring Point 48

Groundwater Monitoring - Alluvium, At the location marked "DRWB06" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	20	20	20
Arsenic	micrograms per litre	4	4	1	1	1
Cadmium	micrograms per litre	4	4	0.05	0.05	0.05
Calcium	milligrams per litre	4	4	48.2	52.95	56.1
Chloride	milligrams per litre	4	4	35.6	43.55	48.70
Chromium	micrograms per litre	4	4	1	1	1
Cobalt	micrograms per litre	4	4	200	800	1200
Dissolved Oxygen	milligrams per litre	12	11	3.83	5.61	7.45
Electrical conductivity	microsiemens per centimetre	12	12	336.1	392.45	509
Iron	micrograms per litre	4	4	10	600	1490
Lead	micrograms per litre	4	4	0.2	0.2	0.2
Magnesium	micrograms per litre	4	4	13900	14775	15400
Manganese	micrograms per litre	4	4	137	708.75	1030

Mercury	micrograms per litre	4	4	0.1	0.1	0.1
Nickel	micrograms per litre	4	4	1.7	2.05	2.50
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0.05	0.56	1.60
pH	pH	4	4	6.86	7.18	7.4
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0.02	0.02	0.02
Phosphorus (total)	milligrams per litre	4	4	0.01	0.035	0.06
Potassium	milligrams per litre	4	4	0.7	0.725	0.80
Redox potential	milligrams per litre	4	4	152	278.75	343
Sodium	milligrams per litre	4	4	19.20	19.60	20.00
Sulfate	milligrams per litre	4	4	37.2	45.15	49.4
Temperature	degrees Celsius	12	12	9.4	15.35	22.20
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.05	0.22	0.33
Zinc	micrograms per litre	4	4	0.22	0.0285	0.038

## Monitoring Point 49

Groundwater Monitoring - Alluvium, At the location marked "DRWB07" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	20	20	20
Arsenic	micrograms per litre	4	4	1	1	1
Cadmium	micrograms per litre	4	4	50	60	80
Calcium	milligrams per litre	4	4	27.8	31.6	36.5
Chloride	milligrams per litre	4	4	30.8	37.125	39.7
Chromium	micrograms per litre	4	4	1	1	1
Cobalt	micrograms per litre	4	4	200	250	400

Dissolved Oxygen	milligrams per litre	12	12	2.83	4.75	5.36
Electrical conductivity	microsiemens per centimetre	4	4	328	344	383
Iron	micrograms per litre	4	4	200	4065	6810
Lead	micrograms per litre	4	4	0.2	0.2	0.2
Magnesium	micrograms per litre	4	4	10100	11700	13700
Manganese	micrograms per litre	4	4	274	482.5	695
Mercury	micrograms per litre	4	4	100	100	100
Nickel	micrograms per litre	4	4	1000	1275	1600
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0.05	0.07	0.11
pH	pH	4	4	7.1	7.25	7.37
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0.02	0.02	0.02
Phosphorus (total)	milligrams per litre	4	4	90	122.5	160
Potassium	milligrams per litre	4	4	1	1.075	1.2
Redox potential	milligrams per litre	4	4	122	225.25	312
Sodium	milligrams per litre	4	4	21.2	23.075	24.9
Sulfate	milligrams per litre	4	4	4.1	15.025	21.7
Temperature	degrees Celsius	4	4	14	15.59	17.1
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.37	0.485	0.65
Zinc	micrograms per litre	4	4	5	15	30

## Monitoring Point 50

Groundwater Monitoring - Alluvium, At the location marked "DRWB08" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	20	20	20

Arsenic	micrograms per litre	4	4	1	1	1
Cadmium	micrograms per litre	4	4	50	50	50
Calcium	milligrams per litre	4	4	19.4	28.77	40
Chloride	milligrams per litre	4	4	35.7	40.15	45.9
Chromium	micrograms per litre	4	4	1	1	1
Cobalt	micrograms per litre	4	4	600	2700	5000
Dissolved Oxygen	milligrams per litre	12	12	4.12	5	5.87
Electrical conductivity	microsiemens per centimetre	4	4	234	283.5	345
Iron	micrograms per litre	4	4	10	13.3	20
Lead	micrograms per litre	4	4	20	20	20
Magnesium	micrograms per litre	4	4	4630	5915	6900
Manganese	micrograms per litre	4	4	131	287.75	407
Mercury	micrograms per litre	4	4	100	100	100
Nickel	micrograms per litre	4	4	1.6	3.725	5.4
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0.05	0.05	0.05
pH	pH	4	4	7.03	7.225	7.4
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0.02	0.02	0.02
Phosphorus (total)	milligrams per litre	4	4	0.02	0.0275	0.04
Potassium	milligrams per litre	4	4	0.9	0.975	1
Redox potential	milligrams per litre	4	4	188	283.75	391
Sodium	milligrams per litre	4	4	11.9	13.3	13.9
Sulfate	milligrams per litre	4	4	7.8	14.7	20.6
Temperature	degrees Celsius	4	4	11.2	16.43	20.2
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.09	0.14	0.19
Zinc	micrograms per litre	4	4	5	18	28



## Monitoring Point 51

Groundwater Monitoring - Alluvium, At the location marked "DRWB09" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	20	20	20
Arsenic	micrograms per litre	4	4	1	1	1
Cadmium	micrograms per litre	4	4	0.05	0.05	0.05
Calcium	milligrams per litre	4	4	69.8	70.55	71.2
Chloride	milligrams per litre	4	4	148	158.75	168
Chromium	micrograms per litre	4	4	1	1.25	2
Cobalt	micrograms per litre	4	4	0.5	1.475	2.4
Dissolved Oxygen	milligrams per litre	12	12	1.62	4.425	5.24
Electrical conductivity	microsiemens per centimetre	4	4	685	731.5	756
Iron	micrograms per litre	4	4	80	147.5	220
Lead	micrograms per litre	4	4	0.2	0.2	0.2
Magnesium	micrograms per litre	4	4	23200	23875	24400
Manganese	micrograms per litre	4	4	96	107.5	114
Mercury	micrograms per litre	4	4	0.1	0.1	0.1
Nickel	micrograms per litre	4	4	7	11.35	16
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0.05	0.153	0.34
pH	pH	4	4	7.25	7.46	7.64
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0.02	0.02	0.02
Phosphorus (total)	milligrams per litre	4	4	0.03	0.035	0.04
Potassium	milligrams per litre	4	4	1.3	1.3	1.3

Redox potential	milligrams per litre	4	4	205	271.75	331
Sodium	milligrams per litre	4	4	27.9	28.25	28.5
Sulfate	milligrams per litre	4	4	10.5	16.175	21.8
Temperature	degrees Celsius	12	12	12.6	14.85	19
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.26	0.42	0.49
Zinc	micrograms per litre	4	4	7	16	25

### Monitoring Point 52

Groundwater Monitoring - Alluvium, At the location marked "DRWB10" as located on the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	4	4	0	0	0
Arsenic	micrograms per litre	4	4	0	0	0
Cadmium	micrograms per litre	4	4	0	0	0
Calcium	milligrams per litre	4	4	0	0	0
Chloride	milligrams per litre	4	4	0	0	0
Chromium	micrograms per litre	4	4	0	0	0
Cobalt	micrograms per litre	4	4	0	0	0
Dissolved Oxygen	milligrams per litre	4	4	0	0	0
Electrical conductivity	microsiemens per centimetre	4	4	0	0	0
Iron	micrograms per litre	4	4	0	0	0
Lead	micrograms per litre	4	4	0	0	0
Magnesium	micrograms per litre	4	4	0	0	0
Manganese	micrograms per litre	4	4	0	0	0

Mercury	micrograms per litre	4	4	0	0	0
Nickel	micrograms per litre	4	4	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	4	4	0	0	0
pH	pH	4	4	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	4	4	0	0	0
Phosphorus (total)	milligrams per litre	4	4	0	0	0
Potassium	milligrams per litre	4	4	0	0	0
Redox potential	milligrams per litre	4	4	0	0	0
Sodium	milligrams per litre	4	4	0	0	0
Sulfate	milligrams per litre	4	4	0	0	0
Temperature	degrees Celsius	4	4	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0	0	0
Zinc	micrograms per litre	4	4	0	0	0

## Monitoring Point 53

Water Quality Monitoring - Spring Creek Upstream, At the location marked "SW-1" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	12	12	83.8	110.8	149
Aluminium	micrograms per litre	12	12	0.02	0.02	0.02
Arsenic	micrograms per litre	12	12	1	1.33	5
Cadmium	micrograms per litre	12	12	0.05	0.05	0.05
Calcium	milligrams per litre	12	12	23.2	30.5	37.8
Chloride	milligrams per litre	12	12	35	55.21	66.1
Chromium (hexavalent)	micrograms per litre	12	12	1	1	1

Cobalt	micrograms per litre	12	12	0.2	0.233	0.5
Dissolved Oxygen	milligrams per litre	12	12	4.75	7.38	9.97
Electrical conductivity	microsiemens per centimetre	12	12	304	399.66	451
Iron	micrograms per litre	12	12	30	395.83	1770
Lead	micrograms per litre	12	12	0.2	0.2	0.2
Magnesium	micrograms per litre	12	12	10000	12608.33	14600
Manganese	micrograms per litre	12	12	1	74.25	379
Mercury	micrograms per litre	12	12	0.1	0.1	0.1
Nickel	micrograms per litre	12	12	1	1.1	1.6
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	12	12	0.05	0.375	1.48
pH	pH	12	12	7.48	7.68	7.8
Phosphorus (dissolved reactive)	milligrams per litre	12	12	0.02	0.02	0.02
Phosphorus (total)	milligrams per litre	12	12	0.01	0.0275	0.06
Potassium	milligrams per litre	12	12	0.1	0.808	2.4
Redox potential	milligrams per normalised cubic metre	12	12	1.1	294.84	395
Sodium	milligrams per litre	12	12	19.9	27.83	30.7
Sulfate	milligrams per litre	12	12	5.9	18.5	33.2
Temperature	degrees Celsius	12	12	5.9	11.93	20.6
Total Kjeldahl Nitrogen	milligrams per litre	12	12	0.09	0.34	0.74
Total suspended solids	milligrams per litre	12	12	2	3.41	8
Zinc	micrograms per litre	12	12	5	5.16	7

## Monitoring Point 54

**Water Volume and Quality Monitoring - Spring Creek Onsite, At the location marked "SW-2" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	0	0	0	0	0
Aluminium	micrograms per litre	0	0	0	0	0
Arsenic	micrograms per litre	0	0	0	0	0
Cadmium	micrograms per litre	0	0	0	0	0
Calcium	milligrams per litre	0	0	0	0	0
Chloride	milligrams per litre	0	0	0	0	0
Chromium (hexavalent)	micrograms per litre	0	0	0	0	0
Cobalt	micrograms per litre	0	0	0	0	0
Dissolved Oxygen	milligrams per litre	0	0	0	0	0
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
Iron	micrograms per litre	0	0	0	0	0
Lead	micrograms per litre	0	0	0	0	0
Magnesium	micrograms per litre	0	0	00	0	0
Manganese	micrograms per litre	0	0	00	0	0
Mercury	micrograms per litre	0	00	0	0	0
Nickel	micrograms per litre	0	0	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	00	0	0	00	0
pH	pH	0	0	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	0	0	0	0	0
Phosphorus (total)	milligrams per litre	0	0	00	0	0
Potassium	milligrams per litre	0	0	0	0	0
Redox potential	milligrams per normalised cubic metre	0	0	0	0	0

Sodium	milligrams per litre	12	12	33.5	36.875	42.3
Sulfate	milligrams per litre	12	12	27.2	36.05	43.8
Temperature	degrees Celsius	12	12	5	11.68	17
Total Kjeldahl Nitrogen	milligrams per litre	12	12	0.05	0.3225	1.1
Total suspended solids	milligrams per litre	12	12	2	5.5	17
Zinc	micrograms per litre	12	12	5	5.83	15

## Monitoring Point 55

Water Quality Monitoring - Spring Creek Downstream, At the location marked "SW-3" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	12	12	94.8	116	147
Aluminium	micrograms per litre	12	12	20	21.66	40
Arsenic	micrograms per litre	12	12	1	1	1
Cadmium	micrograms per litre	12	12	0.05	0.05	0.05
Calcium	milligrams per litre	12	12	52.2	68.35	82.8
Chloride	milligrams per litre	12	12	96.8	142.56	198
Chromium (hexavalent)	micrograms per litre	12	12	1	1	1
Cobalt	micrograms per litre	12	12	0.2	0.56	3.6
Dissolved Oxygen	milligrams per litre	12	12	5.92	9.32	13.13
Electrical conductivity	microsiemens per centimetre	12	12	615	748.03	875
Iron	micrograms per litre	12	12	40	96.66	300
Lead	micrograms per litre	12	12	0.2	0.2	0.2
Magnesium	micrograms per litre	12	12	19800	24041.67	29100

Manganese	micrograms per litre	12	12	7	122.5	646
Mercury	micrograms per litre	12	12	0.1	0.1	0.1
Nickel	micrograms per litre	12	12	1	2.225	4.1
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	12	12	1	2.22	4.1
pH	pH	12	12	7.27	7.82	7.99
Phosphorus (dissolved reactive)	milligrams per litre	12	12	0.02	0.023	0.05
Phosphorus (total)	milligrams per litre	12	12	0.01	0.016	0.04
Potassium	milligrams per litre	12	12	0.7	1.35	2.2
Redox potential	milligrams per normalised cubic metre	12	12	1.8	292.9	380
Sodium	milligrams per litre	12	12	30.5	35.99	42.9
Sulfate	milligrams per litre	12	12	28.9	41.6	66.2
Temperature	degrees Celsius	12	12	5.6	13.28	19.9
Total Kjeldahl Nitrogen	milligrams per litre	12	12	0.17	0.29	0.62
Total suspended solids	milligrams per litre	12	12	2	3.83	9
Zinc	micrograms per litre	12	12	5	6.16	18

## Monitoring Point 56

**Water Volume and Quality Monitoring - Majors Creek Upstream, At the location marked "SW-4" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	12	12	58	75.66	110
Aluminium	micrograms per litre	12	12	0.02	0.054	0.41
Arsenic	micrograms per litre	12	12	1	1.16	3
Cadmium	micrograms per litre	12	12	0.05	0.05	0.05

Calcium	milligrams per litre	12	12	8.1	13.56	22.7
Chloride	milligrams per litre	12	12	20.9	29.24	39.5
Chromium (hexavalent)	micrograms per litre	12	12	1	1	1
Cobalt	micrograms per litre	12	12	0.2	0.208	0.3
Dissolved Oxygen	milligrams per litre	12	12	6.77	9.70	13.16
Electrical conductivity	microsiemens per centimetre	12	12	160	228	285
Iron	micrograms per litre	12	12	70	384.16	1000
Lead	micrograms per litre	12	12	0.2	0.208	0.3
Magnesium	micrograms per litre	12	12	4400	6853.3	10200
Manganese	micrograms per litre	12	12	6	44.16	181
Mercury	micrograms per litre	12	12	0.1	0.1	0.1
Nickel	micrograms per litre	12	12	1	1	1
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	12	12	0.05	0.21	0.98
pH	pH	12	12	7.62	7.75	7.89
Phosphorus (dissolved reactive)	milligrams per litre	12	12	0.02	0.024	0.05
Phosphorus (total)	milligrams per litre	12	12	0.01	0.015	0.03
Potassium	milligrams per litre	12	12	0.3	1.23	1.9
Redox potential	milligrams per normalised cubic metre	12	12	1.8	282.73	408
Sodium	milligrams per litre	12	12	13.8	20.18	23.8
Sulfate	milligrams per litre	12	12	2.2	12.4	28.1
Temperature	degrees Celsius	12	12	6.8	13.21	19.1
Total Kjeldahl Nitrogen	milligrams per litre	12	12	0.05	0.28	0.75
Total suspended solids	milligrams per litre	12	12	2	2.25	4
Zinc	micrograms per litre	12	12	5	5	5



## Monitoring Point 57

Water Quality Monitoring - Majors Creek, At the location marked "SW-5" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	12	12	70	80.175	101
Aluminium	micrograms per litre	12	12	20	54.16	310
Arsenic	micrograms per litre	12	12	1	1	1
Cadmium	micrograms per litre	12	12	0.05	0.05	0.05
Calcium	milligrams per litre	12	12	0.02	15.72	22.1
Chloride	milligrams per litre	12	12	22.8	30.95	41.6
Chromium (hexavalent)	micrograms per litre	12	12	1	1	1
Cobalt	micrograms per litre	12	12	0.2	0.225	0.5
Dissolved Oxygen	milligrams per litre	12	12	5.03	7.77	11.47
Electrical conductivity	microsiemens per centimetre	12	12	192	245.83	274
Iron	micrograms per litre	12	12	190	464.16	880
Lead	micrograms per litre	12	12	0.2	0.2	0.2
Magnesium	micrograms per litre	12	12	6230	7538.33	9330
Manganese	micrograms per litre	12	12	13	100.25	744
Mercury	micrograms per litre	12	12	0.1	0.1	0.1
Nickel	micrograms per litre	12	12	1	1	1
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	12	12	0.05	0.06	0.11
pH	pH	12	12	7.4	7.59	7.72
Phosphorus (dissolved reactive)	milligrams per litre	12	12	0.02	0.0225	0.05
Phosphorus (total)	milligrams per litre	12	12	0.01	0.0175	0.03

Potassium	milligrams per litre	12	12	0.4	1.15	2.1
Redox potential	milligrams per normalised cubic metre	12	12	1.4	284.86	440
Sodium	milligrams per litre	12	12	18	20.833	22.2
Sulfate	milligrams per litre	12	12	5.7	15.19	30.2
Temperature	degrees Celsius	12	12	7.3	13.95	19.8
Total Kjeldahl Nitrogen	milligrams per litre	12	12	0.13	0.31	0.72
Total suspended solids	milligrams per litre	12	12	2	2.25	3
Zinc	micrograms per litre	12	12	5	5	5

## Monitoring Point 58

**Water Volume and Quality Monitoring - Majors Creek Downstream, At the location marked "SW-6" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	12	12	73.2	85.9	102
Aluminium	micrograms per litre	12	12	20	58.33	360
Arsenic	micrograms per litre	12	12	1	1	1
Cadmium	micrograms per litre	12	12	0.05	0.05	0.05
Calcium	milligrams per litre	12	12	21.9	28.5	34.2
Chloride	milligrams per litre	12	12	32.3	49.38	75
Chromium (hexavalent)	micrograms per litre	12	12	1	1	1
Cobalt	micrograms per litre	12	12	0.2	0.2	0.2
Dissolved Oxygen	milligrams per litre	12	12	6.15	9.02	11.71
Electrical conductivity	microsiemens per centimetre	12	12	279	344.58	422

Iron	micrograms per litre	12	12	170	435.83	1000
Lead	micrograms per litre	12	12	0.2	0.2	0.2
Magnesium	micrograms per litre	12	12	8460	10455	12400
Manganese	micrograms per litre	12	12	22	46.16	134
Mercury	micrograms per litre	12	12	0.1	0.1	0.1
Nickel	micrograms per litre	12	12	1	1.05	1.4
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	12	12	0.05	0.18	0.75
pH	pH	12	12	7.52	7.76	7.86
Phosphorus (dissolved reactive)	milligrams per litre	12	12	0.02	0.073	0.64
Phosphorus (total)	milligrams per litre	12	12	0.01	0.018	0.04
Potassium	milligrams per litre	12	12	0.4	1.18	1.8
Redox potential	milligrams per normalised cubic metre	12	12	1.5	276.7	394
Sodium	milligrams per litre	12	12	0	0	0
Sulfate	milligrams per litre	0	0	0	0	0
Temperature	degrees Celsius	0	0	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	0	0	0	0	0
Total suspended solids	milligrams per litre	0	0	0	0	0
Zinc	micrograms per litre	0	0	0	0	0

## Monitoring Point 59

Water Quality Monitoring - Majors Creek Downstream, At the location marked as "SW-7" on the map labelled "Figure 1.1 Regional Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	0	0	0	0	0

Aluminium	micrograms per litre	0	0	0	0	0
Arsenic	micrograms per litre	0	0	0	0	0
Cadmium	micrograms per litre	0	0	0	0	0
Calcium	milligrams per litre	0	0	0	0	0
Chloride	milligrams per litre	0	0	0	0	0
Chromium (hexavalent)	micrograms per litre	0	0	0	0	0
Cobalt	micrograms per litre	0	0	0	0	0
Dissolved Oxygen	milligrams per litre	0	0	0	0	0
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
Iron	micrograms per litre	0	0	0	0	0
Lead	micrograms per litre	0	0	0	0	0
Magnesium	micrograms per litre	0	0	0	0	0
Manganese	micrograms per litre	0	0	0	0	0
Mercury	micrograms per litre	0	0	0	0	0
Nickel	micrograms per litre	0	0	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	0	0	0	0	0
pH	pH	0	0	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	0	0	0	0	0
Phosphorus (total)	milligrams per litre	0	0	0	0	0
Potassium	milligrams per litre	0	0	0	0	0
Redox potential	milligrams per normalised cubic metre	0	0	0	0	0
Sodium	milligrams per litre	0	0	0	0	0
Sulfate	milligrams per litre	0	0	0	0	0
Temperature	degrees Celsius	0	0	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	0	0	0	0	0

Total suspended solids	milligrams per litre	0	0	0	0	0
Zinc	micrograms per litre	0	0	0	0	0

## Monitoring Point 61

Groundwater Monitoring - Alluvium, At the location marked as "DRWB12" as located in the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	0	0	0	0	0
Arsenic	micrograms per litre	0	0	0	0	0
Cadmium	micrograms per litre	0	0	0	0	0
Calcium	milligrams per litre	0	0	0	0	0
Chloride	milligrams per litre	0	00	0	0	0
Chromium	micrograms per litre	0	0	0	0	0
Cobalt	micrograms per litre	0	0	0	0	0
Dissolved Oxygen	milligrams per litre	0	0	0	0	0
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
Iron	micrograms per litre	0	0	0	0	0
Lead	micrograms per litre	0	0	0	0	0
Magnesium	micrograms per litre	0	0	0	0	0
Manganese	micrograms per litre	0	0	0	0	0
Mercury	micrograms per litre	0	0	0	0	0
Nickel	micrograms per litre	0	0	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	0	0	0	0	0
pH	pH	0	0	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	00	0	0	0	0

Phosphorus (total)	milligrams per litre	0	0	0	0	0
Potassium	milligrams per litre	00	0	0	0	0
Redox potential	milligrams per litre	0	0	0	0	0
Sodium	milligrams per litre	0	0	00	0	0
Sulfate	milligrams per litre	0	0	0	0	0
Temperature	degrees Celsius	0	0	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	0	0	0	0	0
Zinc	micrograms per litre	0	0	0	0	0

## Monitoring Point 62

Groundwater Monitoring - Granodiorite Aquifer, At the location marked as "DRWB13" as located in the map labelled "Figure 1.3 Project Site Groundwater Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Aluminium	micrograms per litre	0	0	0	0	0
Arsenic	micrograms per litre	0	0	0	0	0
Cadmium	micrograms per litre	0	0	0	0	0
Calcium	milligrams per litre	0	0	0	0	0
Chloride	milligrams per litre	0	0	0	0	0
Chromium	micrograms per litre	0	0	0	0	0
Cobalt	micrograms per litre	0	0	0	0	0
Dissolved Oxygen	milligrams per litre	0	0	0	0	0
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
Iron	micrograms per litre	0	0	0	0	0
Lead	micrograms per litre	0	0	0	0	0

Magnesium	micrograms per litre	0	0	0	0	0
Manganese	micrograms per litre	0	0	0	0	0
Mercury	micrograms per litre	0	0	0	0	0
Nickel	micrograms per litre	0	0	0	0	0
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	0	0	0	0	0
pH	pH	0	0	0	0	0
Phosphorus (dissolved reactive)	milligrams per litre	0	0	0	0	0
Phosphorus (total)	milligrams per litre	0	0	0	0	0
Potassium	milligrams per litre	0	0	0	0	0
Redox potential	milligrams per litre	0	0	0	0	0
Sodium	milligrams per litre	0	0	0	0	0
Sulfate	milligrams per litre	0	0	0	0	0
Temperature	degrees Celsius	0	0	0	0	0
Total Kjeldahl Nitrogen	milligrams per litre	0	0	0	0	0
Zinc	micrograms per litre	0	0	0	0	0

## Monitoring Point 74

Water Quality Monitoring - Spillway of Sediment Basin 2, At the location marked "SB02-1" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
pH	pH	0	0	0	00	0
TSS	milligrams per litre	0	0	0	0	0
Turbidity	nephelometric turbidity units	0	0	0	0	0

## Monitoring Point 75

**Water Quality Monitoring - Spillway of Storm Water Pond 1, At the location marked "SWPO1-1" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
pH	pH	0	0	0	0	0
TSS	milligrams per litre	0	0	0	0	0
Turbidity	nephelometric turbidity units	0	0	0	0	0

### Monitoring Point 77

**High volume air sampling, South west of the project site boundary at the location marked as "R108" on the map labelled "Figure 1 Surrounding residences and air quality monitoring locations" of the amended Air Quality and Greenhouse Gas Management Plan (DOC18/487069-04)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
PM10	micrograms per cubic metre	0	0	0	0	0

### Monitoring Point 78

**Water Quality Monitoring - Waste Rock Emplacement Sediment Basin 1, At the location marked "WRESB01-1" as located on the map labelled "Figure 1.2 Site Surface Water Monitoring Locations" of the "EPL 20095 Sampling Locations for Dargues Gold Mine" for the premises dated 22 March 2017 (EPA reference DOC17/187905)**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Electrical conductivity	microsiemens per centimetre	0	0	0	0	0
pH	pH	0	0	0	0	0
TSS	milligrams per litre	0	0	0	0	0
Turbidity	nephelometric turbidity units	0	0	0	0	0



### B3. Volume or Mass Monitoring Summary

For each volume or mass monitoring point identified in your licence, details are displayed below. If volume or mass monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

**Note** that this does not exclude the need to conduct appropriate volume or mass monitoring of assessable pollutants are required by load-based licensing (if applicable).

## C. Statement of Compliance - Licence Conditions

### C1. Compliance with Licence Conditions

Were all conditions of the licence complied with (including monitoring and reporting requirements)?	Yes
---	-----

## D. Statement of Compliance - Load Based Fee Calculation

If you are not required to monitor assessable pollutants by your licence, **no data** will appear below.

If assessable pollutants have been identified on your licence, the following worksheets for each assessable pollutant will determine your load based fee for the licence fee period to which this Annual Return relates.

**Loads of assessable pollutants must be calculated using any of the methods provided in EPA's Load Calculation Protocol for the relevant activity.** A Load Calculation Protocol would have been already sent to you with your licence. If you require additional copies, you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

## E. Statement of Compliance - Requirement to Prepare PIRMP

Have you prepared a Pollution Incident Response Management Plan (PIRMP) as required under section 153A of the Protection of the Environment Operations (POEO) Act 1997?	Yes
Is the PIRMP available at the premises?	Yes
Is the PIRMP available in a prominent position on a publicly accessible website?	Yes
Address of the web page where the PIRMP can be accessed ▼	
<a href="https://www.divminerals.com.au/dargues-gold-mine/operational-documents/licenses/">https://www.divminerals.com.au/dargues-gold-mine/operational-documents/licenses/</a>	
Has the PIRMP been tested?	Yes
The PIRMP was last tested on	28-6-2019
Has the PIRMP been updated?	No

Number of times the PIRMP was activated in this reporting period?	<b>0</b>
The PIRMP was activated on	nil

## F. Statement of Compliance - Requirement to Publish Pollution Monitoring Data

Are there any conditions attached to your licence that require pollution monitoring to be undertaken as required under section 66(6) of the Protection of the Environment Operations (POEO) Act 1997?	<b>No</b>
---	-----------

## G. Statement of Compliance - Environment Management System and Practices

Do you have an ISO 14001 certified Environmental Management System (EMS) OR any other system that EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 certified EMS?	<b>No</b>
Have you conducted an assessment of your activities and operations to identify the aspects that have a potential to cause environmental impacts and implemented operational controls to address these aspects?	<b>Yes</b>
Have you established and implemented an operational maintenance program, including preventative maintenance?	<b>Yes</b>
Do you keep records of regular inspections and maintenance of plant and equipment?	<b>Yes</b>
Do you conduct regular (at least yearly) environmental audits at the premises that are conducted by a competent and independent person?	<b>No</b>
Have you undertaken an independent environmental audit covering documented environmental practices, procedures and systems in place during the annual return period?	<b>No</b>
Have you established and implemented an environmental improvement or management plan?	<b>Yes</b>
Do you train staff in environmental issues that may arise from your activities and operations at the premises and keep records of this?	<b>Yes</b>

## H. Signature and Certification

**This Annual Return may only be signed by person(s) with legal authority to sign it as set out in following categories: an Individual, a Company, a Public authority or a Local council.**

**It is an offence to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation and \$120,000 for an individual.**

I/We

- declare that the information in the Monitoring and Complaints Summary in Section B of this Annual Return application is correct and not false or misleading in a material respect, and
- certify that the information in the Statement and Compliance in sections A, C, D, E, F, G and H and any other pages attached to Section C is correct and not false or misleading in a material respect.