

Schedule 19: Annual Activity and Expenditure Return

Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013 - Regulation 35

Section 1: Mining licence number and operation name: (One licence only per form)

Mining Licence Number

MIN5189

Operation Name

AGL Loy Yang Pty Ltd

Licensee

LYP Partner 4 BV

Operator (if not licensee)

Reporting Period

Declaration: To the best of my knowledge and belief the particulars entered on this return and in the attachments are correct and no figures, information or diagrams required under Regulation 35 of the *Mineral Resources (Sustainable Development)* (Mineral Industries) Regulations 2013 have been omitted.

Signature:

Date:

Name: (Block letters)

Paul Barrand

Job Title:

Infrastructure, Civil and Environmental (ICE) Manager

Telephone

REPORT

Section 2: Expenditure (Schedule 19, Section 4 to 9)

Wages and Salaries \$

Land Access Compensation - Access to land (Private) - Native Title Compensation \$
Expenditure on equipment, plant or machinery \$

Overheads* (should not exceed 20% of the total expenditure)

\$ \$ 1,478,93

Expenditure on rehabilitation

Expenditure on exploration (as distinct from mining) if any; under the following headings:

Office Studies

Airborne exploration surveys

Remote sensing imagery

Ground exploration - mapping, surveying etc...

Expenditure on mining work undertaken.

Drilling

Surface Development - costeaning or bulk sampling

Total expenditure for licence

*Allowable overhead costs include rent, office supplies, photocopying, tenement management, Aboriginal Heritage Surveys, equipment maintenance, accommodation, construction materials, field materials and administrative costs. An acceptable level of overheads should not be more than 20% of the total claim. Accommodation claims should include attaching details eg: period of accommodation, number of people, location of accommodation etc.

Section 3: Production (Schedule 19, Section 10b)

Specific ore or mineral produced for Period

Brown Coal

Total quantity of ore or mineral produced (tonnes, m3, ounces, grams)

Total value of ore or minerals produced (\$000)

Metallic content of produced (\$000)

produced (\$000)

Important note: if your operation includes more than one title you may choose to complete the following pages of this report using combined data for all titles at your site. If doing so please indicate the title numbers below.

Title Numbers:

Section 4: Mining Works (Schedule 19, 10a,c,d)

ARE YOUR MINING WORKS IN ACCORDANCE WITH YOUR APPROVED WORK PLAN?

Yes No

4.1 Underground Mining

ARE THERE ANY UNDERGROUND MINE WORKINGS AT THE SITE?

YES Complete this section

NO Go to section 4.2

Details of underground workings

- 1. Attach a detailed current plan of any underground mine to this report. Plans should clearly indicate dimensions, structural features, access points, ventilation, services and security measures.
- 2. Provide a description of any shaft or underground development during the reporting period, including the depth or distance developed. (Attach additional pages if necessary)

4.2 Surface mine facilities and works

- 1. Describe any development or extensions to surface mine facilities and works; (Attach additional pages if necessary)
- 2. If there have been significant changes a scale plan of the site should be attached to clearly indicate developments or extensions to the site over the reporting period. (eg Infrastructure, dams, plant, etc)

Please see attached site plan of AGL Loy Yang. The plan shows areas which have been cleared in preparation for mining.

Section 5: Land Disturbance and Land Rehabilitation (Schedule 19, sections 11,a,b,c,d)

5.1 Details of land disturbance and rehabilitation

Α	the total current area of land disturbed	1156.51 ha
The	e proportion of this area that has been disturbed in relation to each of the following:	
i	Pits	841.71 ha
ii	Overburden and waste rock dumps	314.8 ha
iii	Tailings storage facilities	ha
iv	Infrastructure	ha
В	Area of land disturbed during the last reporting period	29.11 ha
С	Area rehabilitated over the last reporting period	6.78 ha
The	e proportion of this area that has been disturbed in relation to each of the following:	
i	Pits	23.61 ha
ii	Overburden and waste rock dumps	5.5 ha
iii	Tailings storage facilities	ha

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iv Infrastructure h

Proportion of the area rehabilitated over the reporting period (C above) that was revegetated with local native species:

5.2 Estimate of rehabilitation liability

What is the current bond for the site

\$ 15,000,000

What is the current estimated rehabilitation liability for the site

\$

Describe any methods and assumptions used in calculation

The current mining licence states the rehabilitation liability for the site is \$15,000,000. AGL Loy Yang is currently revising the Rehabilitation Plan with DSDBI.

of work han

Section 6: Da	ams and W	aste Streams	(Schedule 16,	section 12a,b)
ARE THERE ANY TA	-	/ITHIN THE LICENSED	AREA?	ion 7 🗹
6.1 Tailings Dam	15			
Status and area of tail	lings dams			
Number in each status category Total area in each category (ha)	Operational	Care and maintenance	Partially rehabilitated	Rehabilitated Totals
6.2 Volume and	composition	of tailings produc	ed Section 12a	
Please complete and	attach a Tailings	Storage Data Sheet (se	parate) for each tailings s	torage facility at the site.
6.3 Volume and	composition	of tailings produc	ed Section 12b	
Where possible, quan pages if necessary).	tify other significa	nt waste streams gener	ated on-site during the re	porting period: (Attach additional
Waste Stream	Compos	sition	Quantity	Management measures
Section 7: En	vironmenta	al Managemer	it (Schedule 19	, Section 12)
7.1 Environment	Monitoring			
DO YOUR APPROVE OUT ENVIRONMENT			TED WORK PLAN CON	DITIONS REQUIRE YOU TO CARRY
YES Complete this se			U take 155 us 4	NO 🗆
reporting period as out	tlined under the w		including details of any	onitoring requirements during the non-compliances that have not

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AGL Loy Yang in the last 12 month period has complied with all environmental monitoring requirements outlined under the work plan. There was one non-compliance which occurred in August when a storm event occurred resulting in a breach of turbidity at our Licenced discharge point. As required by EPA licence EM31241 this was reported to the EPA.

Please refer to the attached

Energy and Earth Resources

DEPARTMENT OF STATE DEVELOPMENT BUSINESS AND INNOVATION





Section 7 Environmental Monitoring

Issues

Monitoring Program Summary

Monitoring Program	Monitoring AGL Loy Yang	Details	Data collection		
Fugitive Dust	8 monitoring stations measure dust emission	7 Measure environmental compliance and internal emission targets onsite. 1 station on a neighbouring property to address dust concerns. Dust trak Deposition guage Directional data collected.	Samples are collected once a month by NATA accredited laboratory which provides a quality assured results report. 2 Dust traks can be accessed online		
Waste water discharge	water 2 active licensed Temperature		Sampled weekly for licenced parameters by independent NATA approved laboratory. Quarterly analysis and a full chemical analysis. Online telemetry gives continual measurements		
Ground water	Licensed	Volumes of ground water are extracted to maintain mine stability Water is transferred to the Power station for use in the LQW system.	Weekly, monthly, quarterly information is collected by contractors.		

Results

Table 1 - Loy Yang Mine Dust Monitoring - Total Deposition

Site	Units		2012-13	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	201	3-14
D1	(g/m2/mth)	Total	6.8	18	7.2	3.6	4.6	4.8	5.9	6.7	7.6	2.1	9.8	6.5	4.9	6.8	Blan
	Bank Carl	Insoluble	2.4	5.4	1.7	1.4	1.6	1.4	2.7	2.8	3.8	0.5	2.8	1.6	0.8		2.2
D2	(g/m2/mth)	Total	6.4	3.9	6.8	6.2	4.1	3.7	5.1	7.6	9.6	6.3	9.7	5.2	6.6	6.2	
		Insoluble	1.5	0.8	0.7	0.8	0.5	0.9	0.9	2.7	5.4	2.1	3.2	0.5	0.3		1.6
D3	(g/m2/mth)	Total	8.1	3.9	7.8	4.2	3.8	4.1	3.6	6.2	6.7	6.8	10	5.6	7.7	5.9	
	7	Insoluble	1.8	0.8	0.7	0.9	0.8	1.2	0.9	2.3	2.9	1.6	1.3	0.9	0.4		1.2
D4	(g/m2/mth)	Total	6.8	5.9	7.9	4.6	4.6	4.8	4.7	7.7	7.8	6.2	8.1	6.3	5.8	6.2	
		Insoluble	2.3	2	1.7	1.5	1.4	2.8	1.8	2.9	4.3	2.4	2.7	2.3	1.3		2.3
D5	(g/m2/mth)	Total	5.6	5.7	7.7	5.5	6	5.8	5.5	7.5	5.7	6.8	4.2	6.4	5.3	6.0	
		Insoluble	1.9	1.6	1.2	1.3	2.7	2.8	1.8	4.4	3	2	1.1	2.2	1		2.1
D6	(g/m2/mth)	Total	4.9	5.3	8	7.8	3.3	5.4	4.9	5.1	4.7	7.2	4.8	5.1	5.4	5.6	
		Insoluble	1.0	0.9	0.8	1.2	0.9	1.3	1.1	1.4	1.9	0.9	0.6	0.9	0.3		1.0
D7	(g/m2/mth)	Total	5.0	4.1	7.4	5	5.3	5.2	4.7	6	5.6	9.1	6	5.1	5.4	5.7	
	Le rayone	Insoluble	1.1	1.2	1.3	1.3	4.2	2.3	0.7	2.3	2	0.4	1.1	0.9	0.3		1.5
D8	(g/m2/mth)	Total	4.0	4.1	7.7	4.8	6.5	7	4.8	5.8	5.8	4.8	7.5	5.3	5.1	5.8	
		Insoluble	0.9	1.2	0.9	1.5	2.1	3.1	0.6	1.5	2.3	0.8	0.9	0.5	0.3		1.3
Average		Total	6.0	5.7	6.7	4.6	4.2	4.5	4.4	5.8	5.9	5.5	6.7	5.1	5.1	5.4	
	1	Insoluble	1.7	1.7	1.1	1.2	1.8	2.0	1.3	2.5	3.2	1.3	1.7	1.2	0.6	ATT T	1.6

^{*} Indicates contaminated sample

Wastewater Discharge

Table 2.Monthly Mean Daily Discharge (2013-2014)

Monthly Mean Daily Discharge Flow (2013-2014) (MI/day)					
Licensed Discharge Point	L160	L171			
Licence Limit	>5ML/day	>40ML/day			
Jul-13	0.53	16.2			
Aug-13	1.54	26			
Sep-13	0.42	29.7			
Oct-13	0.54	30.3			
Nov-13	0.66	26.4			
Dec-13	0.26	23.3			
Jan-14	0.0	21.6			
Feb-14	0.0	20.3			
Mar-14	0.0	19.1			
Apr-14	0.0	18.5			
May-14	0.0	17.7			
Jun-14	0.0	17.2			
Average	0.33	22.19			

Table 3.Annual Wastewater Quality results (2013-2014)

Annual Wastewater Quality results (2013-2014)								
		Licence Limit		L171		L160		
Parameter	Unit	Max	Median	Max	Median	Max	Median	
Colour	Pt/Co	70	50	55	25	180	110	
SS	g/m3	40	20	44	5	67	12	
TDS	g/m3	700	500	650	650	280	180	
Turbidity	NTU	40	20	40	4	48	14	
рН	Units	Range	8.5 - 6.0	6.9	- 6.5	15.	0 - 6.7	

Key

L160 Northwest Perimeter Runoff at Traralgon Creek Road

L171 Loy Yang Discharge to Traralgon Creek

L201 Downstream -Traralgon Creek at Mattingley Hill Road Bridge

L203 Upstream -Traralgon Creek at Jones Road, Traralgon Sth

Note: Licence points L203, L171 and L201 sampled once weekly (52 samples). Although L160 is sampled weekly results shown only reflect periods of discharge (28 samples).

Table 4: Annual Waste and Receiving Water Temperature (2012-13)

	Annual Waste and F	Receiving Water Temp	erature (2012-13)	
Monitoring Location	L203 (Upstream)	L171 Licensed Discharge Point	L201 (Downstream)	L160 Licensed Discharge Point
Average (°C)	14.9	16.1	15.5	17.2
Median (°C)	14.0	15.0	14.0	17.0
Maximum (°C)	26.0	27.0	27.0	33.0
	Licence Limit	+8°C		
	Max difference)	+3°C	1	

Table 5. Total Groundwater Pumped and Collected 2012-2013

Month	Pumped ML	Pumped to LYPS ML	Collected %
Jul	977.4	933	95.5%
Aug	936.8	896	95.6%
Sep	894.4	718.7	80.4%
Oct	1017.7	609.3	59.9%
Nov	888.4	838	94.3%
Dec	1049.4	948	90.3%
Jan	823.7	742	90.1%
Feb	855	798	93.3%
Mar	910	861	94.6%
Apr	905.4	898	99.2%
May	903.6	894	98.9%
Jun	1056.5	1,027.20	97.2%

^{*} pumped – extracted via groundwater pumps
* collected – volume collected and transferred to Power Station for use in low quality water (LQW) system

Table 6. Groundwater Pumped M2B, M2C and Traralgon (ML)
GROUNDWATER PUMPED M2B, M2C and TRARALGON (ML)

Month	Traralgon	M2C	M2B	Total Seepage
Jul	765.0	212.4	0	57.0
Aug	700.9	236.0	0	51.8
Sep	681.4	213.0	0	50.2
Oct	773.8	243.9	0	57.0
Nov	681.7	206.7	0	50.1
Dec	810.9	238.5	0	60.5
Jan	636.7	188.2	0	48.4
Feb	665.1	189.9	0	48.4
Mar	703.7	206.3	0	50.2
Apr	672.1	233.3	0	55.3
May	644.2	259.5	0	51.8
Jun	749.7	306.8	0	55.3
Total	8485.2	2734.5	0	636.0

Incidents and Complaints

Issue	No. of complaints	Details	Corrective Actions
Fugitive Dust	0		
Noise	0		

Date	Description	Comment	Reference
20 August 2013	High Rainfall caused Elevated Turbidity discharge to Traralgon Creek	An offsite source of contamination was found to be the cause of this incident and therefore this incident was classified as type 2.	Periscope Ref 166