

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 : 529
Licence holder : WAMBO COAL PTY LIMITED
Trading name (if applicable) :
ABN : 13 000 668 057
ACN : 000 668 057
Reporting period : From: 1-1-2021 To: 31-12-2021

A2. Premises to which Licence Applies (if applicable)

Common name (if any) : WAMBO COAL PTY LTD
Premises : JERRYS PLAINS ROAD WARKWORTH 2330 NSW

A3. Activities to which Licence Applies

Mining for coal
 Coal works
 Crushing, grinding or separating

A4. Other Activities (if applicable)

Sewage Treatment Systems
 Chemical Storage Facilities

A5. Fee-Based Activity Classifications

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



Annual Return

WAMBO COAL PTY LIMITED

Licence 529

Fee-based activity	Activity scale	Unit of measure
Coal works	> 5,000,000.00	T annual handling capacity
Crushing, grinding or separating	> 2,000,000.00	T annual processing capacity
Mining for coal	> 5,000,000.00	T annual production 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	0
Waste	0
Other	0
Total complaints recorded by the licensee during the reporting period	0

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).

Discharge & Monitoring Point 4

Discharge to waters, water quality & volumetric monitoring, 'EPA4' HRSTS Outlet from Eagles Nest Dam at 313133, 6393073 (Easting Northing)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	microsiemens per centimetre	4	4	2070	2696	3884
pH	pH	4	4	8.07	8.56	8.79

Total suspended solids	milligrams per litre	4	8	47	152.1	264
Turbidity	nephelometric turbidity units	4	4	181.5	221.3	275.9

Monitoring Point 14

Ambient air quality - PM10 TEOM, 'EPA14' (AQ02) at 312053, 6390320 (Easting Northing)

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	365	365	2.5	12.24	33

Monitoring Point 15

Ambient air quality- PM10 TEOM, 'EPA15' (AQ03) at 304503, 6398522 (Easting, Northing)

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	365	365	2.6	13.11	88.4

Monitoring Point 16

Ambient air quality - PM10 TEOM, 'EPA16' (AQ04) at 305927, 6399587 (Easting, Northing)

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	365	342	0.1	8.2	28.8

Discharge & Monitoring Point 19

Discharge to waters, water quality & volumetric monitoring, 'EPA19' HRSTS Discharge from South Wambo Dam at 311904, 6391464 (Easting and Northing)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	microsiemens per centimetre	0	0	0	0	0
pH	pH	0	0	0	0	0
Total suspended solids	milligrams per litre	0	0	0	0	0
Turbidity	nephelometric turbidity units	0	0	0	0	0

Monitoring Point 24

Ambient water quality monitoring, 'SW1' at 314429, 6385707 (Easting, Northing)

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	12	16	162	526.6	838
pH	pH	12	16	6.86	7.14	7.29
Total suspended solids	milligrams per litre	12	16	5	11.2	37

Monitoring Point 25

Ambient water quality monitoring, 'SW2' at co-ordinates 314376, 6385037 (Easting, Northing)

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	12	18	183	496.8	700
pH	pH	12	18	6.84	7.26	7.43
Total suspended solids	milligrams per litre	12	18	5	9.22	43

Monitoring Point 26

Ambient water quality monitoring, 'SW3' at 312509, 6392866 (Easting, Northing)

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	12	16	189	498.3	715
pH	pH	12	16	6.82	7.20	7.38
Total suspended solids	milligrams per litre	12	16	5	11.43	42

Monitoring Point 27

Ambient water quality monitoring, 'SW4' at 306887, 6396024 (Easting, Northing)

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	12	3	216	221	230
pH	pH	12	3	7.11	7.25	7.46
Total suspended solids	milligrams per litre	12	3	5	6.33	9

Monitoring Point 28

Ambient water quality monitoring, 'SW5' at 311927, 6392157 (Easting, Northing)

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	12	4	193	211	249
pH	pH	12	4	6.91	7.09	7.36
Total suspended solids	milligrams per litre	12	4	14	128.5	285

Monitoring Point 29

Ambient water quality monitoring, 'SW6' at 309056, 6389550 (Easting, Northing)

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	12	16	132	332	478
pH	pH	12	16	6.67	7.00	7.32
Total suspended solids	milligrams per litre	12	16	5	10.75	62

Monitoring Point 30

Ambient water quality monitoring, 'SW7' at 311263, 6390718 (Easting, Northing)

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	12	15	178	459	712
pH	pH	12	15	6.71	7.25	7.58
Total suspended solids	milligrams per litre	12	15	5	11.8	50

Monitoring Point 31

Ambient water quality monitoring, 'SW8' at 308536, 6392133 (Easting, Northing)

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	12	16	191	2054	5320
pH	pH	12	16	6.74	7.28	7.66
Total suspended solids	milligrams per litre	12	16	5	7.2	25

Monitoring Point 33

Ambient water quality monitoring, 'SW15' at 313055, 6393097 (Easting, Northing)

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	12	18	2300	5070	6520
pH	pH	12	18	7.56	8.69	8.96
Total suspended solids	milligrams per litre	12	18	5	50.2	333

Monitoring Point 34

Ambient water quality monitoring, 'SW27a' at 309431, 6393558 (Easting, Northing)

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	12	9	208	552	845
pH	pH	12	9	7.32	7.74	7.98
Total suspended solids	milligrams per litre	12	9	12	80.1	210

Monitoring Point 36

Ambient water quality monitoring, 'SW32a' at 309905, 6393191 (Easting, Northing)

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	12	8	205	500	824
pH	pH	12	8	7.24	7.66	7.94
Total suspended solids	milligrams per litre	12	8	12	115	393

Monitoring Point 39

Ambient water quality monitoring, 'SW39' at 307194, 6398519 (Easting, Northing)

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	12	2	121	137	153
pH	pH	12	2	7.32	7.4	7.48
Total suspended solids	milligrams per litre	12	2	20	201	382

Monitoring Point 40

Ambient water quality monitoring, 'SW40' at 311910, 6391093 (Easting, Northing)

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	12	16	74	429	644
pH	pH	12	16	6.65	7.19	7.42
Total suspended solids	milligrams per litre	12	16	5	15.7	76

Monitoring Point 41

Ambient water quality monitoring, 'SW41' at 307257, 6398952 (Easting, Northing)

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	12	4	140	179.5	202
pH	pH	12	4	7.16	7.33	7.44
Total suspended solids	milligrams per litre	12	4	22	30.75	36

Discharge & Monitoring Point 43

Effluent quality monitoring, Discharge to utilisation area, 'STPD3' at 313135, 6393361 (Easting, Northing)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Faecal Coliforms	colony forming units per 100 millilitres	4	0	0	0	0
pH	pH	4	0	0	0	0

Monitoring Point 52

Effluent quality monitoring, 'STPD2' at 313331, 6393871 (Easting, Northing)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Faecal Coliforms	colony forming units per 100 millilitres	4	4	91	445	820
pH	pH	4	4	8.91	8.99	9.1

Monitoring Point 53

Ambient air quality -PM10 TEOM, 'EPA13' (AQ01) at 314128, 6394541 (Easting Northing)

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	365	365	0	14.6	64.0

Monitoring Point 56

Effluent quality monitoring, 'STP1' at 312283, 6393069 (Easting, Northing)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Faecal Coliforms	colony forming units per 100 millilitres	0	0	0	0	0
pH	pH	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).

Discharge & Monitoring Point 4

Discharge to waters, water quality & volumetric monitoring, 'EPA4' HRSTS Outlet from Eagles Nest Dam at 313133, 6393073 (Easting Northing)

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	Highest result
megalitres per day	Continuous	4	0.95	18.79	29.5

Discharge & Monitoring Point 19

Discharge to waters, water quality & volumetric monitoring, 'EPA19' HRSTS Discharge from South Wambo Dam at 311904, 6391464 (Easting and Northing)

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	Highest result
megalitres per day	Continuous	0	0	0	0

B3 Mass Monitoring Comments

No Discharges from Monitoring Point 19

C. Statement of Compliance - Licence Conditions

C1. Compliance with Licence Conditions

Were all conditions of the licence complied with (including monitoring and reporting requirements)?	No
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C2. Details of Non-Compliance with Licence

Licence condition number not complied with ▼

L2.1

Summary of particulars of the non-compliance ▼

The Total Suspended Solids (TSS) 100 Percentile Limit of 120 was exceeded at Point 19 on the 24th and 25th of March 2021 during

Further details on particulars of non-compliance, if required ▼

Lab analysis of TSS samples identified exceedances of the 120 limit after discharge was complete.

Number of times occurred ▼

2

Date(s) when the non-compliance occurred, if applicable ▼

24/3/2021 and 25/3/2021

Cause of non-compliance ▼

Elevated TSS levels during controlled discharge

Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼

There were no adverse effects from the non compliance.

Action taken or that will be taken to prevent a recurrence of the non-compliance ▼

A new inline grab sampling location was installed to better reflect discharged water. The inline parameter probes were calibrated following the discharge.

Uploaded Document Name ▼

210531 WA-ENV-RPT HRSTS Investigation_MAY 2021.pdf

Uploaded Document Description ▼

Licence condition number not complied with ▼

M2.1, M2.2

Summary of particulars of the non-compliance ▼

PM10 Concentration data was not recorded continuously at EPA Point 16.

Further details on particulars of non-compliance, if required ▼

Data was not recorded due to technical and environmental factors that resulted in a loss of power or data.

Number of times occurred ▼

23

Date(s) when the non-compliance occurred, if applicable ▼

Multiple dates throughout monitoring period.

Cause of non-compliance ▼

Multiple causes including: equipment malfunction/failure, water ingress, loss of power supply, electrical fault, and lightning/storm. Refer to full list on attached document.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼

No know adverse effects.

Action taken or that will be taken to prevent a recurrence of the non-compliance ▼

Upon alarm of unit failure, a maintenance technician would either remotely restart the unit or visit the site to identify and fix the problem.
Preventative maintenance and servicing of the unit will continue.

Uploaded Document Name ▼

Cause of Data loss at EPA Point 16 in 2021.pdf

Uploaded Document Description ▼

Licence condition number not complied with ▼

M2.1, M2.3

Summary of particulars of the non-compliance ▼

Water samples were not taken from several monitoring locations as the site was either dry, had no flow, or was inaccessible at the time of monitoring.

Further details on particulars of non-compliance, if required ▼

Number of times occurred ▼

49

Date(s) when the non-compliance occurred, if applicable ▼

All months of the reporting period

Cause of non-compliance ▼

No water or no flow at sampling point.
Sites were inaccessible.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼

No known adverse effects.

Action taken or that will be taken to prevent a recurrence of the non-compliance ▼

Sites were revisited when a rain event (+20mm) occurred to identify any flow periods when water could be sampled.

Uploaded Document Name ▼

Uploaded Document Description ▼

Licence condition number not complied with ▼

M2.1, M2.3

Summary of particulars of the non-compliance ▼

Sewerage Treatment Plant (STP) discharge locations did not register a sampled because the location was dry or there was no discharge

Further details on particulars of non-compliance, if required ▼

Number of times occurred ▼
8
Date(s) when the non-compliance occurred, if applicable ▼
Each Quarter of the reporting period.
Cause of non-compliance ▼
EPA Point 52 was dry on each occasion monitoring occurred. EPA Point 56 had no discharges throughout the period as all waste was trucked to a licensed facility.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼
No known adverse effects from the non-compliance.
Action taken or that will be taken to prevent a recurrence of the non-compliance ▼
EPA Point 52 will continually be monitored for any discharge that may occur. EPA point 56 will start to be monitored in 2022 as discharges commence at this site.
Uploaded Document Name ▼
Uploaded Document Description ▼

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 ▼	
www.peabodyenergy.com/Operations/Australia-Mining/New-South-Wales-Mining/Wambo-Underground-Mine	
Has the PIRMP been tested?	Yes
The PIRMP was last tested on	20-4-2021
Has the PIRMP been updated?	Yes
The PIRMP was last updated on	11-5-2021
Number of times the PIRMP was activated in this reporting period?	1
The PIRMP was activated on	21/3/2021

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?	Yes
Do you operate a website?	Yes
Is the pollution monitoring data published on your website in accordance with the EPA's written requirements for publishing pollution monitoring data?	Yes
Address of the web page where the pollution monitoring data can be accessed ▼	
www.peabodyenergy.com/Operations/Australia-Mining/New-South-Wales-Mining/Wambo-Underground-Mine	

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?	No
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?	Yes
Have you established and implemented an operational maintenance program, including preventative maintenance?	Yes
Do you keep records of regular inspections and maintenance of plant and equipment?	Yes
Do you conduct regular (at least yearly) environmental audits at the premises that are conducted by a competent and independent person?	No

Have you undertaken an independent environmental audit covering documented environmental practices, procedures and systems in place during the annual return period?	No
Have you established and implemented an environmental improvement or management plan?	Yes
Do you train staff in environmental issues that may arise from your activities and operations at the premises and keep records of this?	Yes

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 under section 66 of the Protection of the Environment Operations Act 1997 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.

Signature		Signature	
Name		Name	
Position		Position	
Date	/ /	Date	/ /
Declaration I declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and I certify that the information in the Statement of Compliance in section A,C,D,E,F and G and any pages attached to Section C is correct and not false or misleading in a material respect.		Declaration I declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and I certify that the information in the Statement of Compliance in section A,C,D,E,F and G and any pages attached to Section C is correct and not false or misleading in a material respect.	