

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 : 5042
Licence holder : PASMINCO COCKLE CREEK SMELTER PTY LIMITED
Trading name (if applicable) :
ABN : 30 000 083 670
ACN :
Reporting period : From: 1-3-2017 To: 28-2-2018

A2. Premises to which Licence Applies (if applicable)

Common name (if any) : PASMINCO COCKLE CREEK SMELTER & INCITEC FERTILIZERS
Premises : MAIN ROAD BOOLAROO 2284 NSW

A3. Activities to which Licence Applies

N/A

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
Miscellaneous licensed discharge to waters (at any time)	> 0.00 - 20.00	ML maximum annual volume of discharge authorised

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 57

Discharge to Waters, Water Quality and Volume Monitoring, Defined as Point 57 Water Treatment Plant discharge on plan titled "Plan of Licensed Premises at the Pasminco Cockle Creek Smelter Site" dated 25 January 2017 and produced by Positive Survey Solutions Pty Ltd, EPA DOC17/96342-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Cadmium	milligrams per litre	0	0	0	0	0
Mercury	milligrams per litre	0	0	0	0	0
pH	pH	0	0	0	0	0
Selenium	milligrams per litre	0	0	0	0	0
Lead	milligrams per litre	0	0	0	0	0
Arsenic	milligrams per litre	0	0	0	0	0
Total suspended solids	milligrams per litre	0	0	0	0	0

Zinc	milligrams per litre	0	0	0	0	0
Aluminium	milligrams per litre	0	0	0	0	0
Standing Water Level	metres	0	0	0	0	0

Monitoring Point 58

Groundwater monitoring, BG2A - Background Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 5 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	1	1	8.37mbgl	8.37mbgl	8.37mbgl
Alkalinity (as calcium carbonate)	milligrams per litre	1	1	129	129	129
Lead	milligrams per litre	1	1	0.001	0.001	0.001
Nickel	milligrams per litre	1	1	0.029	0.029	0.029
Zinc	milligrams per litre	1	1	0.025	0.025	0.025
pH	pH	1	1	5.55	5.55	5.55
Electrical conductivity	microsiemens per centimetre	1	1	3.72	3.72	3.72
Temperature	degrees Celsius	1	1	20.9	20.9	20.9
Redox potential	millivolts	1	1	241.8	241.8	241.8
Dissolved Oxygen	milligrams per litre	1	1	0.09	0.09	0.09
Calcium	milligrams per litre	1	1	48	48	48
Magnesium	milligrams per litre	1	1	81	81	81
Sodium	milligrams per litre	1	1	650	650	650
Potassium	milligrams per litre	1	1	22	22	22
Sulfate	milligrams per litre	1	1	268	268	268
Chloride	milligrams per litre	1	1	1170	1170	1170

Monitoring Point 59

Groundwater monitoring, BH62 - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	3	7.87	7.94	8.02
Alkalinity (as calcium carbonate)	milligrams per litre	1	2	7	39	71
Lead	milligrams per litre	2	3	0.001	0.005	0.008
Nickel	milligrams per litre	2	3	0.01	0.03	0.06
Zinc	milligrams per litre	2	3	0.12	0.14	0.15
pH	pH	2	2	5.22	5.52	5.82
Electrical conductivity	microsiemens per centimetre	2	2	4086	4887	5688
Temperature	degrees Celsius	2	2	20.31	20.41	20.5
Redox potential	millivolts	2	2	174	260.5	347
Dissolved Oxygen	milligrams per litre	2	2	0.12	0.255	0.39
Calcium	milligrams per litre	1	2	7	15.5	24
Magnesium	milligrams per litre	1	2	38	81	124
Sodium	milligrams per litre	1	2	694	962	1230
Potassium	milligrams per litre	1	2	18	19	20
Sulfate	milligrams per litre	1	2	438	622.5	807
Chloride	milligrams per litre	1	2	788	1219	1650

Monitoring Point 60

Groundwater monitoring, BH63 - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	2	7.080	7.215	7.350
Alkalinity (as calcium carbonate)	milligrams per litre	1	2	3.000	5.000	7.000
Lead	milligrams per litre	2	2	0.001	0.006	0.010
Nickel	milligrams per litre	2	2	0.001	0.006	0.010
Zinc	milligrams per litre	2	2	0.044	0.071	0.098
pH	pH	2	2	4.630	4.715	4.800
Electrical conductivity	microsiemens per centimetre	2	2	470.000	489.000	508.000
Temperature	degrees Celsius	2	2	20.000	20.650	21.300
Redox potential	millivolts	2	2	412.000	470.500	529.000
Dissolved Oxygen	milligrams per litre	2	2	1.82	3.08	4.34
Calcium	milligrams per litre	1	1	1.000	1.000	1.000
Magnesium	milligrams per litre	1	1	1.000	1.000	1.000
Sodium	milligrams per litre	1	1	112.000	112.000	112.000
Potassium	milligrams per litre	1	1	1.000	1.000	1.000
Sulfate	milligrams per litre	1	1	124.000	124.000	124.000
Chloride	milligrams per litre	1	1	69.000	69.000	69.000

Monitoring Point 61

Groundwater monitoring, BH64S - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	2	5.020	5.27	5.52

Alkalinity (as calcium carbonate)	milligrams per litre	1	2	54	99	144
Lead	milligrams per litre	2	2	0.001	0.001	0.001
Nickel	milligrams per litre	2	2	0.025	0.088	0.150
Zinc	milligrams per litre	2	2	0.021	0.042	0.063
pH	pH	2	2	5.48	5.654	5.81
Electrical conductivity	microsiemens per centimetre	2	2	6763	7116.5	7470
Temperature	degrees Celsius	2	2	19.7	19.7	19.7
Redox potential	millivolts	2	2	329	350.5	372
Dissolved Oxygen	milligrams per litre	2	2	1.34	1.585	1.83
Calcium	milligrams per litre	1	1	119	119	119
Magnesium	milligrams per litre	1	1	282	282	282
Sodium	milligrams per litre	1	1	1510	1510	1510
Potassium	milligrams per litre	1	1	13	13	13
Sulfate	milligrams per litre	1	1	1720	1720	1720
Chloride	milligrams per litre	1	1	1860	1860	1860

Monitoring Point 62

Groundwater monitoring, BH65D - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	2	6.010	6.210	6.410
Alkalinity (as calcium carbonate)	milligrams per litre	1	2	46	167	288
Lead	milligrams per litre	2	2	0.001	0.001	0.001
Nickel	milligrams per litre	2	2	0.001	0.002	0.002
Zinc	milligrams per litre	2	2	0.005	0.005	0.005

pH	pH	2	2	7.51	9.415	11.32
Electrical conductivity	microsiemens per centimetre	2	2	5225	5662.5	6100
Temperature	degrees Celsius	2	2	19.1	20.2	21.3
Redox potential	millivolts	2	2	44	90	136
Dissolved Oxygen	milligrams per litre	2	2	0.34	2.4	4.76
Calcium	milligrams per litre	1	1	287	287	287
Magnesium	milligrams per litre	1	1	2	2	2
Sodium	milligrams per litre	1	1	933	933	933
Potassium	milligrams per litre	1	1	12	12	12
Sulfate	milligrams per litre	1	1	184	184	184
Chloride	milligrams per litre	1	1	1550	1550	1550

Monitoring Point 63

Groundwater monitoring, BH65S - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	2	6.27	6.495	6.72
Alkalinity (as calcium carbonate)	milligrams per litre	1	2	1	1	1
Lead	milligrams per litre	2	2	0.010	0.017	0.024
Nickel	milligrams per litre	2	2	0.007	0.008	0.008
Zinc	milligrams per litre	2	2	0.422	0.5695	0.717
pH	pH	2	2	3.6	3.64	3.68
Electrical conductivity	microsiemens per centimetre	2	2	4528	5181	5834
Temperature	degrees Celsius	2	2	19.2	19.2	19.2
Redox potential	millivolts	2	2	579	613.5	648
Dissolved Oxygen	milligrams per litre	2	2	0.91	1.185	1.46

Calcium	milligrams per litre	1	1	10	10	10
Magnesium	milligrams per litre	1	1	133	133	133
Sodium	milligrams per litre	1	1	970	970	970
Potassium	milligrams per litre	1	1	6	6	6
Sulfate	milligrams per litre	1	1	710	710	710
Chloride	milligrams per litre	1	1	1310	1310	1310

Monitoring Point 64

Groundwater monitoring, BH64D - Down-gradient Monitoring Well as identified on Plan titled Post-remediation Groundwater Monitoring Well Network: Site Wide. FIGURE 6 - Project: 137625003 and dated 14/06/2016. EPA reference DOC17/322255-01

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Standing Water Level	metres	2	2	5.64	5.79	5.94
Alkalinity (as calcium carbonate)	milligrams per litre	1	2	414	436	458
Lead	milligrams per litre	2	2	0.001	0.001	0.001
Nickel	milligrams per litre	2	2	0.001	0.002	0.002
Zinc	milligrams per litre	2	2	0.005	0.007	0.009
pH	pH	2	2	7.060	7.075	7.090
Electrical conductivity	microsiemens per centimetre	2	2	6314	6651	6988
Temperature	degrees Celsius	2	2	19.7	20.8	21.9
Redox potential	millivolts	2	2	150	161.95	173.9
Dissolved Oxygen	milligrams per litre	2	2	0.82	3.32	5.82
Calcium	milligrams per litre	1	1	226	226	226
Magnesium	milligrams per litre	1	1	145	145	145
Sodium	milligrams per litre	1	1	1270	1270	1270
Potassium	milligrams per litre	1	1	19	19	19

Sulfate	milligrams per litre	1	1	512	512	512
Chloride	milligrams per litre	1	1	1860	1860	1860

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 57

Discharge to Waters, Water Quality and Volume Monitoring, Defined as Point 57 Water Treatment Plant discharge on plan titled "Plan of Licensed Premises at the Pasminco Cockle Creek Smelter Site" dated 25 January 2017 and produced by Positive Survey Solutions Pty Ltd, EPA DOC17/96342-01

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	Highest result
kilolitres per day	Daily	0	0	0	0

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 ▼
Monitoring Point 58 (BG2A)
Summary of particulars of the non-compliance ▼
BG2A was sampled once during this period, as the monitoring point was included part way though the reporting period June 2017.
Further details on particulars of non-compliance, if required ▼
As such this is not considered a non-compliance.
Number of times occurred ▼
1
Date(s) when the non-compliance occurred, if applicable ▼

NA
Cause of non-compliance ▼
Inclusion of monitoring point 58 part-way through the reporting period.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼
Sampling of BG2A is scheduled to occur during the July and December 2018 monitoring rounds.
Action taken or that will be taken to prevent a recurrence of the non-compliance ▼
NA
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.pasminco.com.au	
Has the PIRMP been tested?	Yes
The PIRMP was last tested on	20-1-2018
Has the PIRMP been updated?	Yes
The PIRMP was last updated on	20-1-2018

Number of times the PIRMP was activated in this reporting period?	0
The PIRMP was activated on	

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.pasminco.com.au	

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 site audits to assess compliance with environmental legal requirements and assess conformance to the requirements of any documented environmental practices, procedures and systems in place?	Yes
Are the audits of documented environmental practices, procedures and systems undertaken by a third party?	Yes
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 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 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.