Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Water Usage for the year 2015

Form Number: **WU1**

Water Source	Usage (m^3)	Specific Usage (m^3/kg)
Mains water (potable)	4392	19.8
Effluent discharge	2265	10.2
TOTAL WATER USAGE		

Trends in Water Usage		
Year	Parameter	
	Water usage (m^3)	Effluent discharge (m^3)
2005		
2006		
2007		
2008		
2009		
2010		

Operator's comments : 222Kg Cadmium used 2015

Signed .....

(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Waste Disposal and Recovery for the year 2015

Form Number: **R1**

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Effluent treatment sludge		28·3	
Solvents		0	
Other hazardous wastes		34·24	0·18
Total hazardous waste		62·54	0·18
2) Non-Hazardous Wastes			
Metal waste			70·60
Other non-hazardous waste		24·14	11·13
Total non-hazardous waste			

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Hazardous Waste for Disposal (tonnes)	Hazardous Waste for Recovery (tonnes)	Non-Hazardous Waste (tonnes)
2005			
2006			
2007			
2008			
2009			
2010			

Operator's comments :

Signed .....
(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006

Operator: AB Connectors Ltd

Permit Reference Number: BV7443IP

Installation: Abercynon Inorganics

Form Number: E1

Reporting of Energy Usage for the year 2015

Energy Source	Energy Usage		CO_2 Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh 2370.320	5688.768	2446.17
Natural Gas	MWh 691.618	691.618	297.4
TOTAL	3061.938	7348.651	3159.9

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage (MWh)	CO_2 Produced (tonnes)	CO_2 per unit output (tonnes/tonne)
2011	9241	3972	
2012	7265.5	3124.5	
2013	7050.7	3031.8	
2014	6384.64	2745.4	
2015	7348.651	3159.9	
2016			
2017			
2018			

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments : BASED ON 0.43 TONNES CO_2/MWH PRIMARY ENERGY

Signed ..... Date 1/2/16

(Authorised to sign as representative of the Operator)

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Performance Indicators for the year 2015

Form Number: **PI1**

Annual Production/Treatment

Quantity of cadmium processed	222 kg Cd

Environmental Performance Indicators [EPI's]

Parameter	Current Year	Units
Primary Energy Usage	7348.651	MWh
Water Use	4392	m^3
Effluent discharge	2265	m^3
Hazardous waste	62540	kg
Non-Hazardous waste	24140	kg

Trends in Environmental Performance

Year	Parameter				
	Primary energy	Water Use	Effluent discharge	Hazardous Waste	Non-Hazardous Waste
	MWh/kg	m^3/kg	m^3/kg	kg/kg	kg/kg
2005					
2006					
2007					
2008					
2009					
2010					

Operator's comments :

Signed .....
(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Air for the year 2015

Form Number: **A1**

Emission Point	Substance or Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A1	Particulate matter	2 mg/m³	0.71	BSEN13284-1	4/11/15	MCERTS	
A2	Particulate matter	10 mg/m³	1.5	BSEN13284-1	4/11/15	MCERTS	
A3	Particulate matter	2 mg/m³	0.90	BSEN13284-1	4/11/15	MCERTS.	
A4	Scrubber liquor pH minimum	10.5	11.40	pH METER	4/11/15		
A4	Oxides of nitrogen (as NO_2)	1.5 mg/m³	2.7	BSEN 14792	4/11/15	MCERTS	
A4	Particulate matter	2 mg/m³	1.3	BSEN13284-1	4/11/15	MCERTS	
Installation	Solvent consumption	3000 kg/year	0				

Operator's comments :

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....

(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Sewer for the period from JULY 2015 **to** SEPTEMBER 2015

Form Number: S1

Emission Point	Substance or Parameter	Emission Limit Value	Result[1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty [5]
T13	Cadmium	10 µg/l	10.	AAS	21-08-15		
T1	Maximum pH	3.0	2.07	CONTINUOUS MONITORING	24-08-15		
T1	Redox Potential	300 mV	154	CONTINUOUS MONITORING	05-08-15.		
T2	Minimum pH	10.5	12.01	CONTINUOUS MONITORING	20-08-15		
T2	Redox Potential	300 mV	304	CONTINUOUS MONITORING	14-08-15		
T5	Minimum pH	9	9.45	CONTINUOUS MONITORING	01-09-15		
T5	Maximum pH	11	10.24	CONTINUOUS MONITORING	17-09-15		
S1	Flow	-					
S1	Cadmium	0.05 mg/l	0.01	AAS	30-09-15		
S1	Cadmium	150 g/year	5.26				
S1	Chromium (VI)	0.1 mg/l	0.089	COLORIMETRY	30-09-15		
S1	Chromium	2 mg/l	0.50	NITRIC ACID DIGEST ICP	07-07-15		
S1	Copper	2 mg/l	0.82	AAS	23-07-15		
S1	Nickel	2 mg/l	0.84	AAS	13-08-15		
S1	Zinc	2 mg/l	0.28	AAS	31-07-15		
S1	Free cyanide	1.0 mg/l	0.271	COLORIMETRY	26-08-15		

[1] The result given is the maximum value (or minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....

(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Sewer for the period from OCTOBER 2015 **to** DECEMBER 2015

Form Number: S1

Emission Point	Substance or Parameter	Emission Limit Value	Result[1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty [5]
T13	Cadmium	10 µg/l	10	A.A.S.	27.11.15		
T1	Maximum pH	3.0	1.94	CONTINUOUS MONITORING	25.11.15		
T1	Redox Potential	300 mV	170	CONTINUOUS MONITORING	07.10.15		
T2	Minimum pH	10.5	11.82	CONTINUOUS MONITORING	09.11.15		
T2	Redox Potential	300 mV	316	CONTINUOUS MONITORING	03.11.15		
T5	Minimum pH	9	9.45	CONTINUOUS MONITORING	05.10.15		
T5	Maximum pH	11	10.54	CONTINUOUS MONITORING	14.12.15		
S1	Flow	-					
S1	Cadmium	0.05 mg/l	0.01	AAS	04.11.15		
S1	Cadmium	150 g/year	6.95				
S1	Chromium (VI)	0.1 mg/l	0.091	COLORIMETRY	14.10.15		
S1	Chromium	2 mg/l	1.4	NITRIC ACID DIGEST ICP	23.10.15		
S1	Copper	2 mg/l	0.67	AAS	23.10.15		
S1	Nickel	2 mg/l	0.65	AAS	05.10.15		
S1	Zinc	2 mg/l	0.26	AAS	15.10.15		
S1	Free cyanide	1.0 mg/l	0.53	COLORIMETRY	23.10.15		

[1] The result given is the maximum value (or minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

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Signed .....

(Authorised to sign as representative of the Operator)

Date 1/2/16

Date of Form:01/2006