



Natural Resources Wales  
Chester Road  
Buckley  
Flintshire  
CH7 3AJ

Attention of: Carter Shone – Senior Officer Industry Regulation, Industry Regulation Team North East

14<sup>th</sup> January 2025

Dear Mr Shone,

**Re: Quarter 4 Monitoring Report for 2024 - Permit Number: EPR/BR9383ID/V012**

Please find enclosed the completed emissions reporting forms for the period from 1<sup>st</sup> October 2024 to 31<sup>st</sup> December 2024.

I trust this information is satisfactory, however, please do not hesitate to contact me should you require any further information.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Graham Jones', with a stylized flourish at the end.

**Graham Jones**  
*Environment and Compliance Manager*

Permit Number: EPR/BR9383ID/V012

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1a

**Reporting of emissions to air for the quarter from 1<sup>st</sup> October to 31<sup>st</sup> December 2024**

**Continuous Emissions Monitoring:**

Emission Point	Substance / Parameter	Emission Limit Value	Month 1 Average of daily average values	Month 1 Maximum Daily average value	Month 2 Average of daily average values	Month 2 Maximum Daily average value	Month 3 Average of daily average values	Month 3 Maximum Daily average value
A	Particulate Matter	20 mg/m3	1.390	6.619	1.142	2.512	1.204	3.092
A	Oxides of Nitrogen (expressed as NO2)	300 mg/m3	90.48	96.81	101.40	110.15	109.25	111.97
A	Oxides of Sulphur (expressed as SO2)	1350 mg/m3	844.92	966.01	918.48	1031.25	1022.01	1149.31
A	Carbon Monoxide	80 mg/m3	4.135	7.813	4.336	11.285	4.522	24.736

Note. All concentration values are in mg/N m<sup>3</sup> @ 8% O<sub>2</sub> Dry Gas.

In month 1 Notification EP\_EX\_364 was raised for requiring continued use of fixed correction factors for part of 1/10/2024, the date when a new pressure sensor and a replacement oxygen probe were installed.

In month 2 Notifications EP\_EX\_365 and 366 were raised relating to using a fixed oxygen level for corrections on 27<sup>th</sup> and 28<sup>th</sup> November when a replacement was installed. The following action was raised:  
Look at sourcing an MCERTS QAL1 rated O2 probe that is more resilient in our system (temperature changes thought to be affecting the zirconia cell in the current design)

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

Date.....14/01/2025

Permit Number: EPR/BR9383ID/V012

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

**Reporting of emissions to air for the 6 month period 1<sup>st</sup> July to 31<sup>st</sup> December 2024**

**Point C, Mainline forming stack**

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Sample Date and Times	Result <sup>[2]</sup>	Sample Date and Times	Result <sup>[3]</sup>	Sample Date and Times
C	Particulate Matter	50 mg / m <sup>3</sup>	27.5	02/10/2024 10:09-10:39 10:40-11:10	25.6	02/10/2024 11:13-11:43 11:44-12:14	38.0	02/10/2024 12:19-12:49 12:50-13:20
C	Volatile Organic Compounds as C	30 mg / m <sup>3</sup>	4.4	02/10/2024 11:15 to 11:45	2.8	02/10/2024 11:46 to 12:16	2.1	02/10/2024 12:17 to 12:47
C	Ammonia	50 mg / m <sup>3</sup>	13.1	02/10/2024 10:09-10:39 10:40-11:10	15.5	02/10/2024 11:13-11:43 11:44-12:14	14.3	02/10/2024 12:19-12:49 12:50-13:20
C	Formaldehyde	5 mg / m <sup>3</sup>	0.21	02/10/2024 10:26 to 10:56	0.31	02/10/2024 11:39 to 12:09	0.47	02/10/2024 12:49 to 13:19
C	Phenol	10 mg / m <sup>3</sup>	1.6	02/10/2024 11:06 to 11:36	1.8	02/10/2024 12:16 to 12:46	1.8	02/10/2024 13:21 to 13:51
C	Amines	3 mg/m <sup>3</sup>	<0.99	02/10/2024 10:26 to 11:26	<1.01	02/10/2024 11:28 to 12:28	<1.01	10210/2024 12:30 to 13:30

Signed .....



(Authorised to sign as representative of Operator)

Date.....14/01/2025

Permit Number: EPR/BR9383ID/V012

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

**Reporting of emissions to air for the 3 month period 1<sup>st</sup> October to 31<sup>st</sup> December 2024 Point A, Cupola Stack After Oxidiser**

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
A	Chlorides (expressed as hydrogen chloride)	10 mg/m <sup>3</sup>	0.24	03/10/2024 09:37 to 10:08	0.17	03/10/2024 10:12 to 10:44	<0.092	03/10/2024 11:22 to 11:52

Note. All concentration values are in mg/N m<sup>3</sup> @ 8% O<sub>2</sub> Dry Gas.

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



Date.....14/01/2025

Permit Number: EPR/BR9383ID/V012

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

Reporting of emissions to air for the 3 month period 1<sup>st</sup> October to 31<sup>st</sup> December 2024

Point G, Main line Cooling Zone Stack

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
G	Particulate Matter	10 mg/m <sup>3</sup>	2.9	01/10/2024 10:20 to 10:40 10:41 to 11:01	2.5	01/10/2024 11:05 to 11:25 11:26 to 11:46	4.1	01/10/2024 11:50 to 12:10 12:11 to 12:31
G	Ammonia**	10 mg/m <sup>3</sup>	1.6	01/10/2024 10:20 to 10:40 10:41 to 11:01	<0.066	01/10/2024 11:05 to 11:25 11:26 to 11:46	4.0	01/10/2024 11:50 to 12:10 12:11 to 12:31

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

Date.....14/01/2025

Permit Number: EPR/BR9383ID/V012

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Water1

**Reporting of emissions to water (other than to sewer) for the six months from 1<sup>st</sup> July to 31<sup>st</sup> December 2024**

Emission Point	pH	Suspended Solids	COD	Sample Date	Sample Time
L3	7.53	8.85	34	05/12/2024	16:25
L4	7.61	8.55	19.7	05/12/2024	16:10
L5	7.59	16	22.5	05/12/2024	16:40
L6	7.86	24	41.7	05/12/2024	16:50

No oil and grease were visible in any of the four emission points.

Signed .....



(Authorised to sign as representative of Operator)

Date.....14/01/2025