

KNAUF INSULATION



Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Attention of: Alison Soper – Regulatory Officer PPC/RSR

16th January 2014

Dear Mrs Soper

Re: Quarter 4 Monitoring Report for 2013 - Permit Number: EPR/BR9383ID/V005

Please find enclosed the completed emissions reporting forms for the period from 1st October 2013 to 31st December 2013.

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

Yours sincerely

Claire Hensley
Environmental Manager

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED & AUTHORIZED		
TRACKING	JB	21.1.14
COPIED TO PUBLIC REGISTER		
FILED TO PPV'S REGISTER		

	INITIALS	DATE
OK FOR PUBLIC REGISTER	AS	28/1/14
COPIED TO PUBLIC REGISTER	JB	E02m

BS EN ISO 9001:1994



FM01768 Q06047 FM00608
FM12162

KNAUF INSULATION LTD.

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REGISTERED OFFICE: STAFFORD ROAD, ST HELENS, MERSEYSIDE, WA10 3NS, UK REGISTERED IN ENGLAND, COMPANY NUMBER 1926842

Permit Number: EPR/BR9383ID/V005

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1a / 011208

Reporting of emissions to air for the quarter from 1st October to 31st December 2013:

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	30 mg/m ³	0.85	2.01	1.19	2.74	1.03	3.10
A	Oxides of Nitrogen (expressed as NO ₂)	300 mg/m ³	136.05	162.86	123.34	170.04	83.88	172.03
A	Oxides of Sulphur (expressed as SO ₂)	1350 mg/m ³	777.42	947.44	674.48	1001.77	467.06	1011.33
A	Carbon Monoxide	80 mg/m ³	34.86	69.29	46.21	352.83	30.68	571.73

Note. All concentration values are in mg/N m³ @ 8% O₂ Dry Gas.

The high Maximum Daily Average values for months 2 and 3 for Carbon Monoxide were reported as un-authorised releases on 29th November 2013 (Reference Number EP_EX_123) and 4th December (Reference Number EP_EX_125).

Signed
(Authorised to sign as representative of Operator)

Date.....16/01/2014

Permit Number: EPR/BR9383ID/V005 Operator: Knauf Insulation Ltd
 Facility: Queensferry Mineral Fibre Works Form Number: Air1c / 011208

Reporting of emissions to air for the 6 month period from 1st July to 31st December 2013:

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Sample Date and Times	Result ^[2]	Sample Date and Times	Result ^[3]	Sample Date and Times
C	Particulate Matter	50 mg / m3	21.4	03/12/2013 13:35 to 14:35	33.9	04/12/2013 08:39 to 09:39	22.3	04/12/2013 10:02 to 11:49
C	Volatile Organic Compounds as C	50 mg / m3	26.19	03/12/2013 14:00 to 15:00	30.05	04/12/2013 08:55 to 09:55	31.03	04/12/2013 09:57 to 11:46
C	Ammonia	50 mg / m3	26.5	03/12/2013 13:35 to 14:35	46.6	04/12/2013 08:39 to 09:39	42.9	04/12/2013 10:02 to 11:49
C	Formaldehyde	10 mg / m3	0.501	23/10/2013 11:58 to 13:00	0.73	23/10/2013 13:40 to 15:00	0.441	23/10/2013 15:20 to 16:20
C	Phenol	10 mg / m3	<1.4	24/10/2013 09:18 to 10:20	< 2.5	24/10/2013 11:07 to 12:49	< 2.1	24/10/2013 13:34 to 14:42
C	Amines	20 mg/m3	< 2.4	23/10/2013 12:03 to 13:03	< 1.3	23/10/2013 13:40 to 14:40	< 1.2	23/10/2013 15:20 to 16:41

Note: All results are expressed in mg/Nm³ without correction for water vapour.

In accordance with Condition 3.1.4, the uncertainty error has been subtracted from the measured values, with the exception of the non-detect results, where the limit of detection for the pollutant has been recorded.

The initial monitoring undertaken on 24th October 2013 recorded one result for Particulate Matter, one result for Ammonia and two results for VOC in excess of the Emission Limit Values. This was reported as an un-authorised release on 20th November 2013 (Reference EP_EX_121).

Signed
 (Authorised to sign as representative of Operator)

Date.....16/01/2014

Permit Number: EPR/BR9383ID/V005 Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works Form Number: Air1g / 011208

Reporting of boundary dust emissions for the quarter from 1st October to 31st December 2013:

Sample No.	Sample Date	Sampling Duration Days	Apparent Deposition Rate mg/m ² day				Comments
			Head No 1	Head No 2	Head No 3	Head No 4	
353	01/10/2013	15	137	171	64	65	
354	14/10/2013	13	150	315	96	99	
355	28/10/2013	14	114	937	44	90	
356	11/11/2013	14	37	66	33	110	
357	25/11/2013	14	69	228	30	40	
358	09/12/2013	14	232	605	79	76	
359	23/12/2013	14	76	62	29	94	

Signed *C. Hambley* Date..... 16/01/2014
(Authorised to sign as representative of Operator)

Permit Number: EPR/BR9383ID/V005 Operator: Knauf Insulation Ltd
 Facility: Queensferry Mineral Fibre Works Form Number: Air1h/011208

Reporting of upwind and downwind emissions for the 6 month period from 1st July to 31st December 2013:

	Upwind Boundary	Downwind Boundary
Formaldehyde mg/Nm ³	0.0044	< 0.0022
Phenol mg/Nm ³	< 0.11	< 0.11
Ammonia mg/Nm ³	< 0.0044	< 0.0044

Signed *C. Hamblen* Date..... 16/01/2014
 (Authorised to sign as representative of Operator)

Permit Number: EPR/BR9383ID/V005

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Sewer1/011208

Reporting of emissions to sewer for the quarter from 1st October to 31st December 2013:

Parameter	Sample Date and Time							
	17/10/2013	21/10/2013	29/10/2013	05/11/2013	14/11/2013	23/12/2013	30/12/2013	
	08:30	13:30	12:10	12:00	16:30	12:25	13:20	
Phenol mg/l	58.6	22.8	16.1	200	21.2	23.3	17.6	
Total phenolic mg/l	59.3	23.1	16.6	201	22	23.4	17.7	
Formaldehyde mg/l	6.2	2.32	4.23	21	5.31	7.05	6.77	
Fluoride mg/l	1.56	0.64	0.686	1.89	0.915	0.599	0.837	
Ammonia mg/l	150	48.4	57.6	408	91.2	57	48	
pH	6.6	7.48	7.9	7.29	7.29	7.39	7.37	
COD mg/l	3350	955	1160	7800	1840	1220	1270	
Total Suspended Solids mg/l	254	160	127	363	225	187	330	
Oil and Grease mg/l	21.8	3.27	11.2	64.4	18.9	8.99	13.7	
Averaging Flow m ³ / hour (limit 2.5m ³ / hr)	1.402	1.455	2.312	2.155	2.238	1.255	1.368	
Total Batch Volume	36.33	101.82	65.31	155.86	57.25	94.42	140.77	

Signed*C. Hamblin*.....
 (Authorised to sign as representative of Operator)

Date16/01/2014