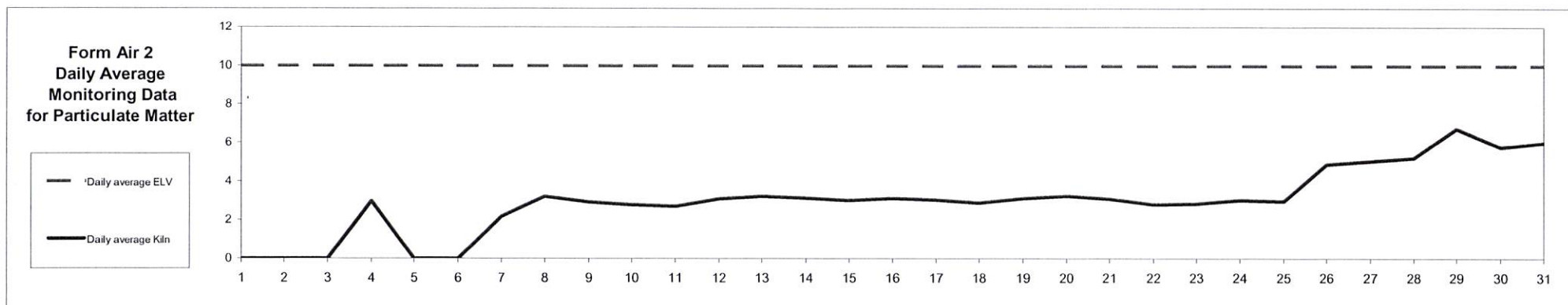


Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



Kiln																																			
Daily average	Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
			Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	Monthly maximum	7	Daily average Kiln				2.97				2.17	3.21	2.92	2.78	2.71	3.10	3.21	3.13	3.02	3.12	3.04	2.88	3.12	3.25	3.09	2.81	2.85	3.02	2.96	4.88	5.05	5.22	6.74	5.76	6.00
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours		No. of invalid 1/2 hours																																
	Sum of exceedances		Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed **K.Bennett** Date **24.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

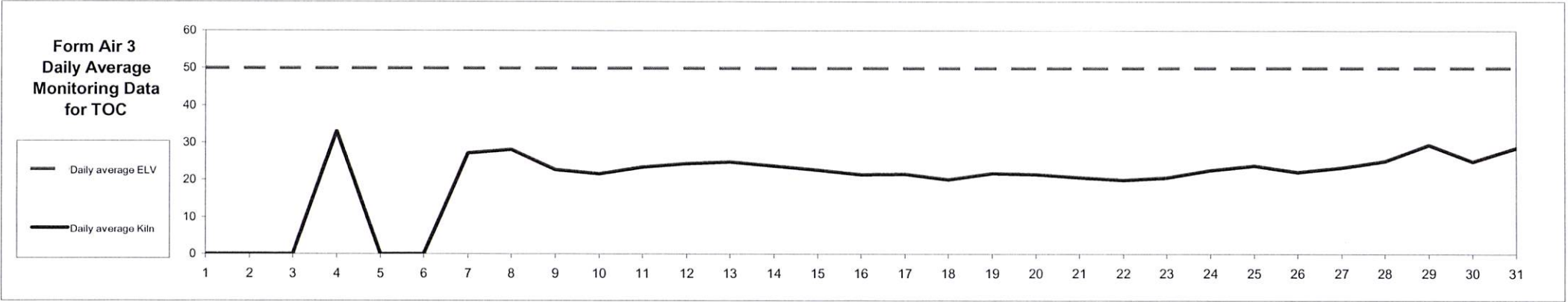
[Signature] 26/10/18

Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



Kiln		Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Daily average			Daily average ELV	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	Monthly maximum	33	Daily average Kiln				33.1					27.2	28.2	22.7	21.6	23.4	24.3	24.8	23.7	22.6	21.4	21.5	20.1	21.8	21.5	20.6	20.0	20.6	22.6	23.8	22.0	23.3	25.0	29.4	24.9	28.5
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours		No. of invalid 1/2 hours																																	
	Sum of exceedances		Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed K.Bennett Date 24.10.2018
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

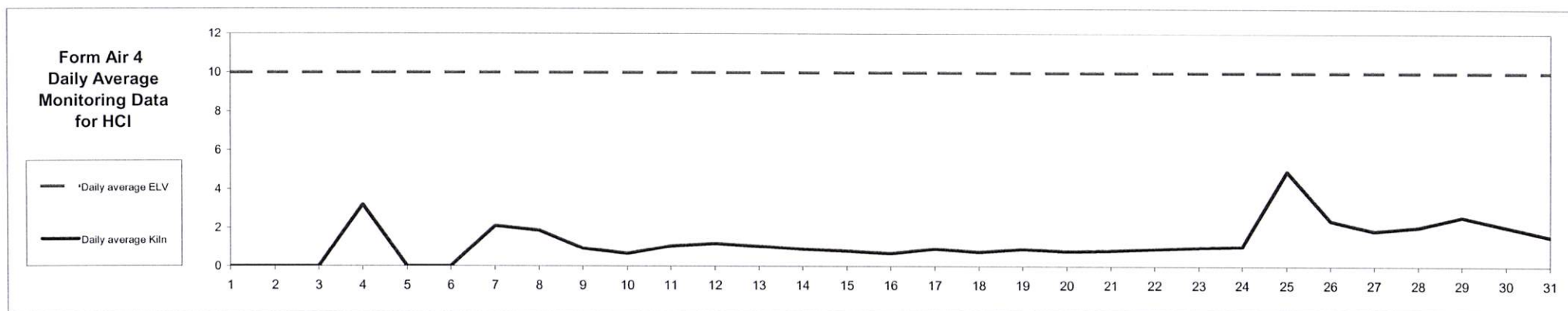
[Signature] 26/10/18

Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions from Kiln 4 (Emission Point A8)



Kiln																																			
Daily average	Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		5	Daily average Kiln				3.20				2.10	1.86	0.93	0.66	1.06	1.18	1.04	0.91	0.80	0.68	0.92	0.75	0.91	0.79	0.83	0.91	0.99	1.05	4.93	2.38	1.86	2.06	2.58	2.08	1.57
			No. of invalid days																																
			Total invalid 1/2 hours																																
			Sum of exceedances																																
			Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
			No. of invalid 1/2 hours																																
			Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Signed **K.Bennett** Date **24.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

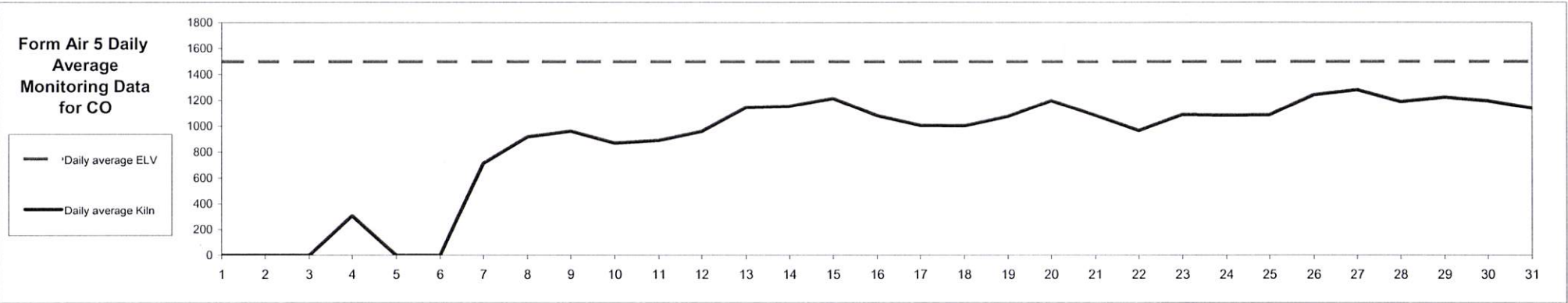
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



Kiln																																		
Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Daily average		Daily average ELV	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
	Monthly maximum	1281	Daily average Kiln				307			713	918	962	870	891	959	1145	1155	1215	1082	1007	1002	1075	1197	1082	965	1089	1084	1086	1243	1281	1189	1224	1195	1138
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours		No. of invalid 1/2 hours																															
	Sum of exceedances		Value exceeds ELV (Y/N)	N	N		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed K.Bennett Date 24.10.2018
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

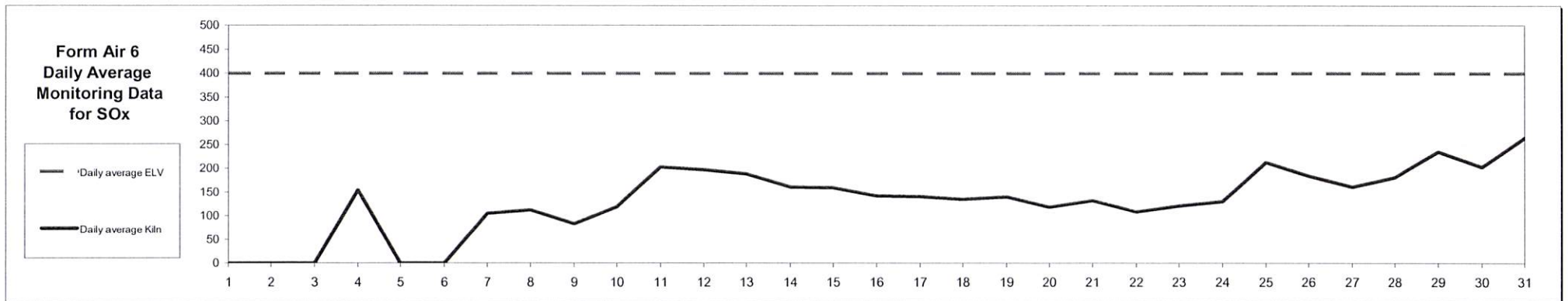
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



Kiln																																			
Daily average	Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
			Daily average ELV	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
		264	Daily average Kiln				154				105	112	83	119	203	198	189	161	160	143	141	135	141	119	132	109	121	131	213	185	161	181	235	203	264
			No. of invalid days	Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
			No. of invalid 1/2 hours	Total invalid 1/2 hours																															
		Sum of exceedances	Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Signed **K.Bennett** Date **24.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

Handwritten signature and date: 26/10/18

Permit Reference Number: BL3986ID

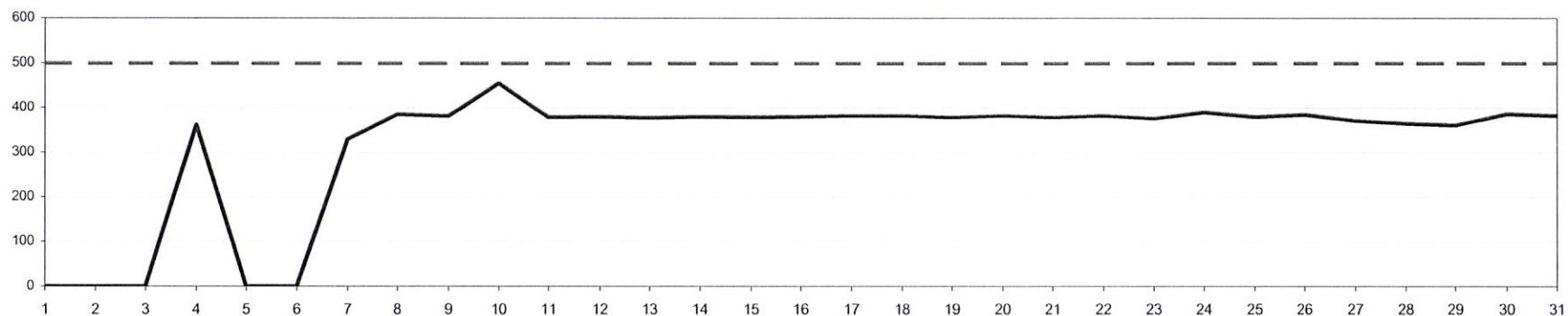
Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)

**Form Air 7
Daily Average
Monitoring Data
for NO_x**

— Daily average ELV
— Daily average Kiln



Kiln

Kiln	Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			Daily average ELV	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Daily average		455	Daily average Kiln				361			330	385	381	455	378	379	377	379	378	379	383	382	378	383	378	382	376	390	379	385	371	364	360	385	382
			No. of invalid days	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
			Total invalid 1/2 hours																															
			Sum of exceedances		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed **K.Bennett** Date **24.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

[Signature] 26/10/18

Permit Reference Number: BL3986ID

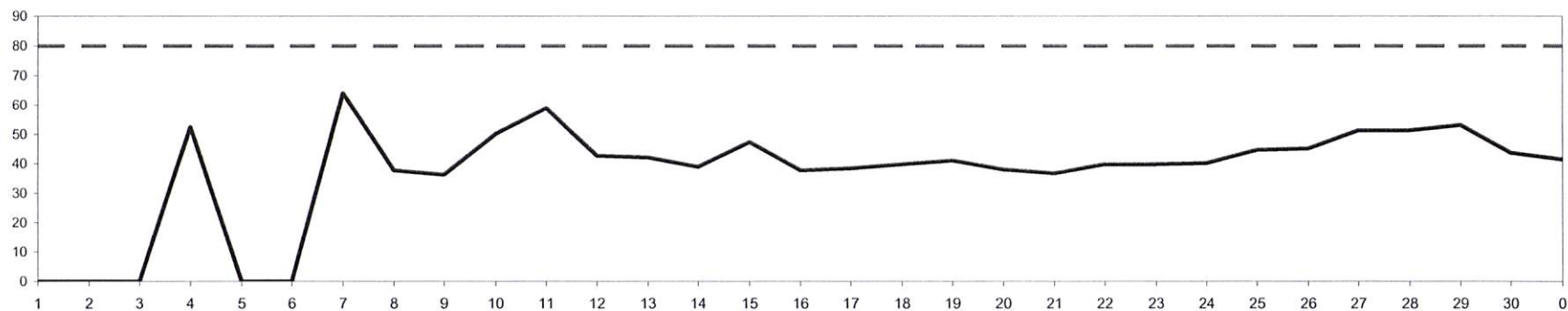
Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)

**Form Air 8
Daily Average
Monitoring Data
for NH3**

— Daily average ELV
— Daily average Kiln



Kiln

Monthly summary			Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Daily average			Daily average ELV	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	Monthly maximum	64	Daily average Kiln	0	0	0	52	0	0	64	38	36	50	59	43	42	39	47	38	38	40	41	38	37	40	40	40	45	45	51	51	53	44	42
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours	1	No. of invalid 1/2 hours										1																					
	Sum of exceedances	0	Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed **K.Bennett** Date **24.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

[Signature] 26/10/18

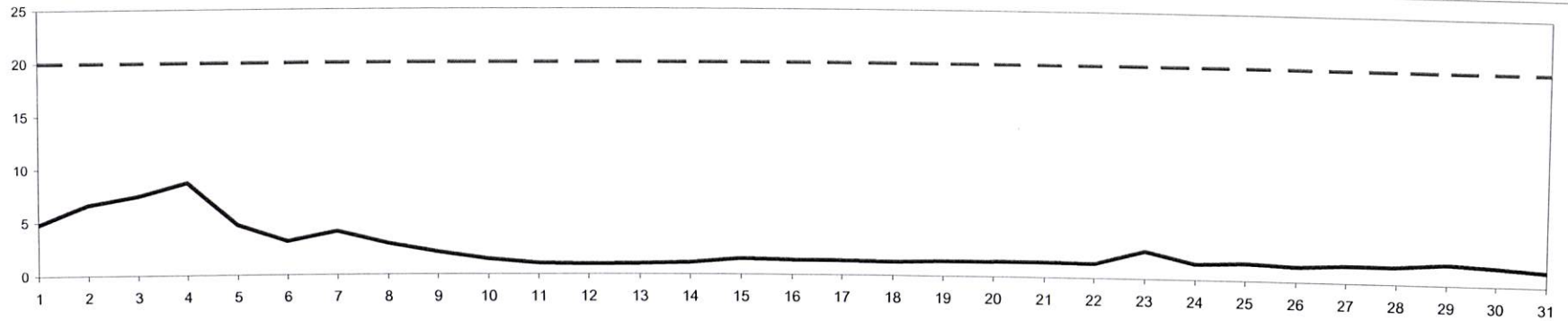
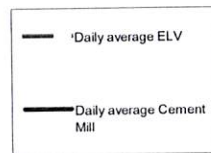
Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Cement Mill Report of Continuous Monitored Emissions (Emission Point A2)

**Form Air 9
Daily Average
Monitoring Data
for Particulate Matter**



Cement Mill			Date																															
Monthly summary			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Daily average			Daily average ELV	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	Monthly maximum	9	Daily average Cement Mill	4.81	6.66	7.47	8.71	4.71	3.17	4.09	2.93	2.14	1.46	1.04	0.97	1.02	1.14	1.50	1.40	1.38	1.29	1.44	1.44	1.45	1.38	2.62	1.50	1.68	1.44	1.68	1.68	1.98	1.74	1.43
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours		No. of invalid 1/2 hours																															
	Sum of exceedances		Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed **K.Bennett** Date **25.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

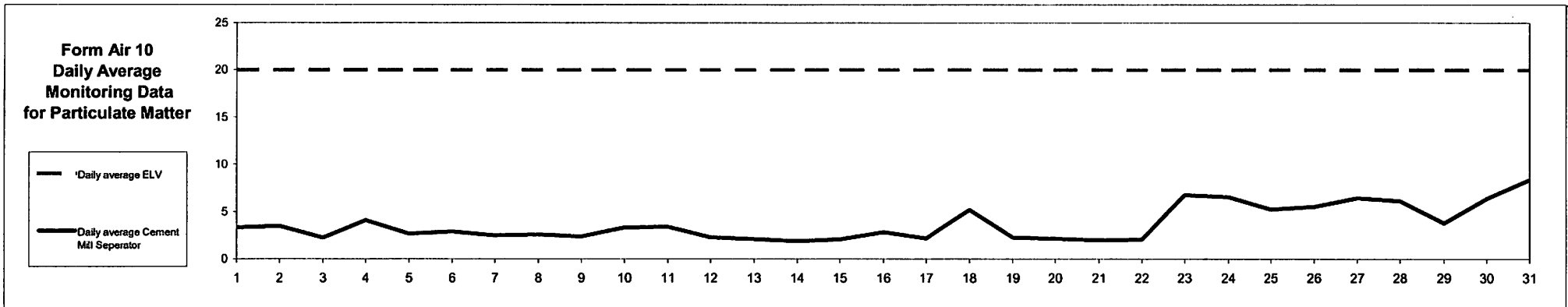
[Signature] 26/10/18

Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd
Jul-18

Installation: Aberthaw Works

Cement Mill Separator Report of Continuous Monitored Emissions (Emission Point A3)



Cement Mill Separator

	Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			Daily average ELV	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Daily average	Monthly maximum	7	Daily average Cement Mill Separator	3.33	3.50	2.24	4.10	2.67	2.90	2.49	2.60	2.37	3.32	3.39	2.28	2.12	1.89	2.08	2.85	2.19	5.21	2.29	2.16	2.00	2.09	6.78	6.59	5.26	5.55	6.45	6.14	3.79	6.40	8.39
	No. of invalid days		Value valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total invalid 1/2 hours		No. of invalid 1/2 hours																															
	Sum of exceedances		Value exceeds ELV (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed **K.Bennett** Date **25.10.2018**
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

[Signature] 26/10/18