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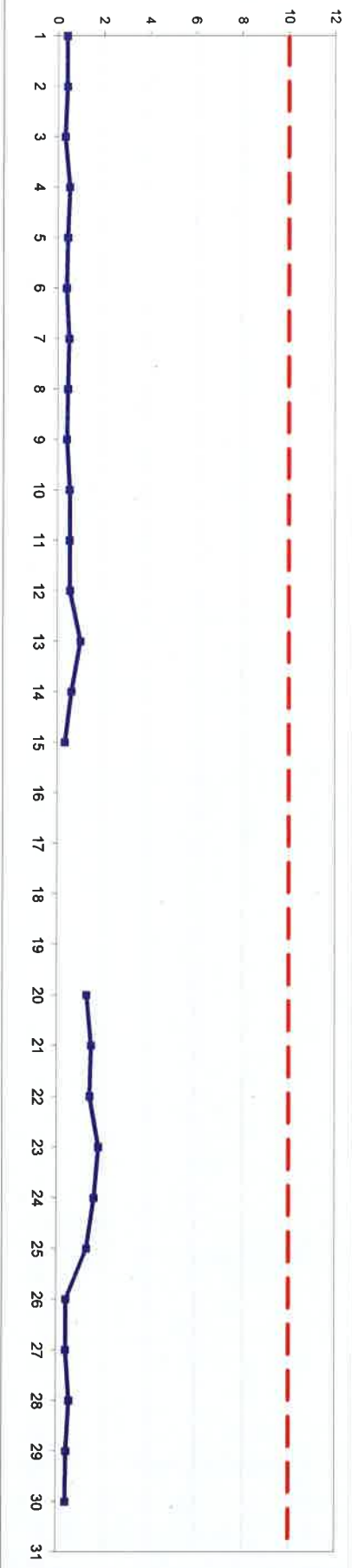
Permit Reference Number: BL10961BAV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

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

Form SA/A2  
Daily Average  
Monitoring Data  
for Particulate Matter



Kiln 4

	November 2013																															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																																																														
	Monthly maximum																																																														
	Daily average Min 4	2																																																													
	No. of invalid days																																																														
	Value valid?																																																														
	Total invalid 1/2 hours																																																														
	Sum of exceedances																																																														
	Value exceeds ELV (Y/N)																																																														

Signed Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

MONITORING RETURNS N. WAL-5

INITIALS DATE

CHANGED BY AUTHORITY

SR 28.1.14

TRUCKS

UB 28.1.14

ON THE PAVING REVISION

SR 28.1.14

WAL-5 N. WAL-5

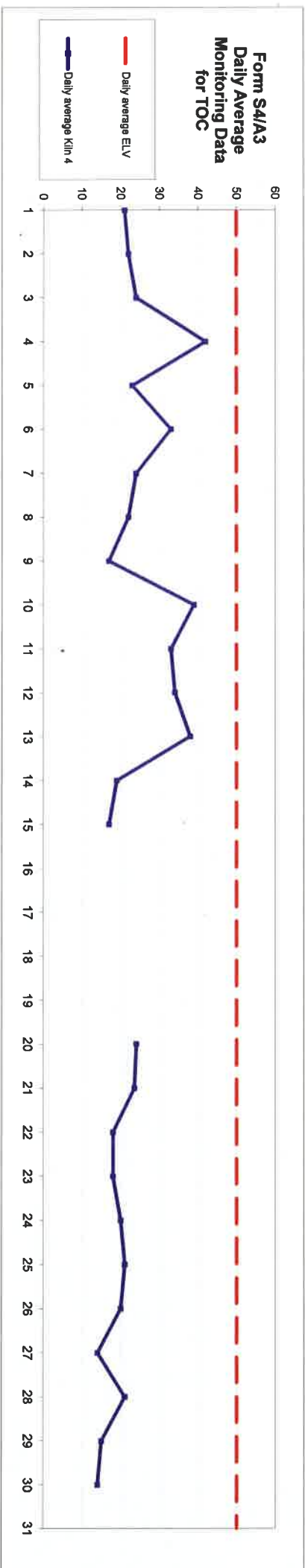
UB EDEM

Permit Reference Number: BL109618/V010

Operator: Castle Cement Ltd

Installation: Padeswood Works

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



Kiln 4																																
November 2013		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
Monthly maximum		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
No. of invalid days	42	21	22	24	42	23	33	24	22	17	39	33	34	38	19	17																
Daily average		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																																
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	N

Signed Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

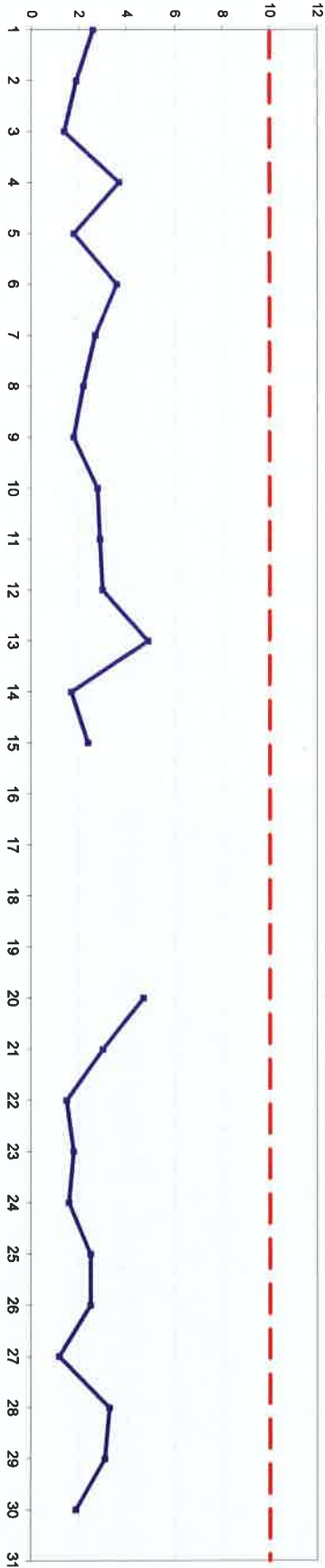
Permit Reference Number: BL10961BNV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

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

Form S4/A4  
Daily Average  
Monitoring Data  
for HCl



Kiln 4

Daily average	November 2013	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	Daily average Kiln 4	26	19	14	3.7	1.8	3.6	2.7	2.2	1.8	2.8	2.9	3.0	4.9	1.7	2.4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	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 12 hours	No. of invalid 12 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	

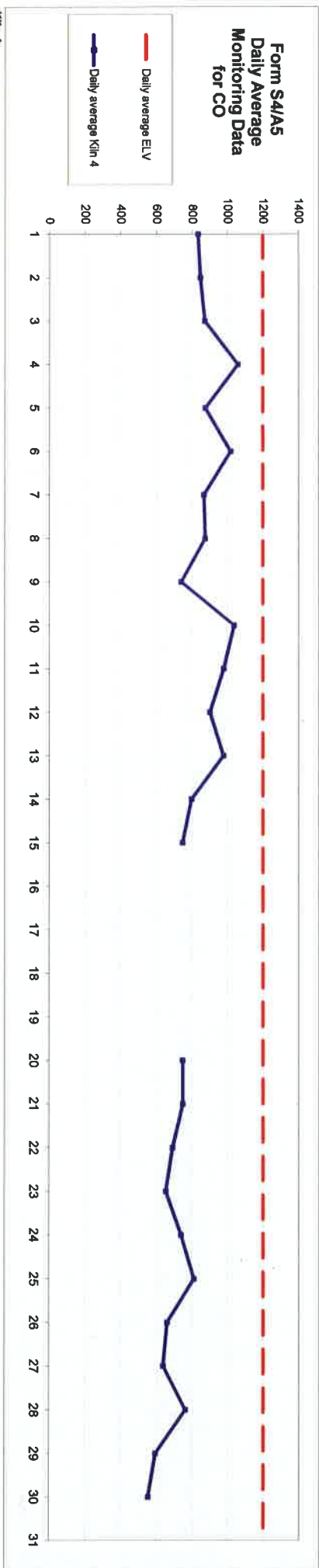
Signed Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

Permit Reference Number: BL10961BW/0-10  
Installation: Padeswood Works

Operator: Castle UK Cement Ltd

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



Kiln 4																																	
April 2013		Date																															
Daily average ELV		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	
Monthly maximum		1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
No. of invalid days		1061	835	847	873	1061	875	1019	867	874	740	1038	979	901	978	797	746																
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																																	
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
Sum of exceedances																																	

Signed  
(Authorised to sign as representative of Castle UK Cement Ltd)

Victoria Smith

Date 01/11/2013

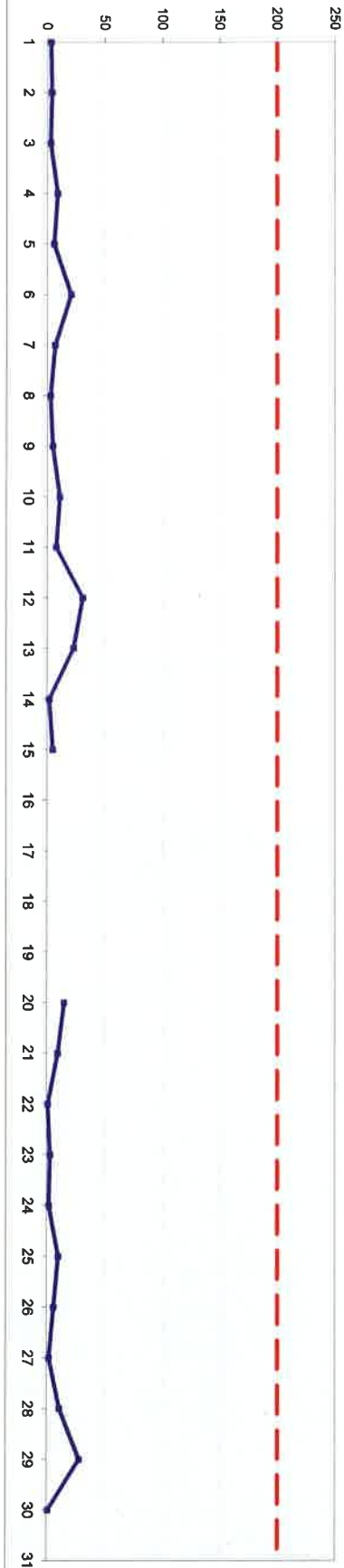
Permit Reference Number: BL10961BV010

Installation: Padeswood Works

Operator: Castle Cement Ltd

Klin Report of Continuous Monitored Emissions from Klin 4 (Emission Point A6)

Form S4/A6  
Daily Average  
Monitoring Data  
for SOx



Klin 4

	November 2013	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	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Monthly maximum	31	Daily average Klin 4	3	4	3	5	6	21	7	3	5	11	6	31	23	2	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	
Total invalid 12 hours		No. of invalid 12 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 \_\_\_\_\_  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

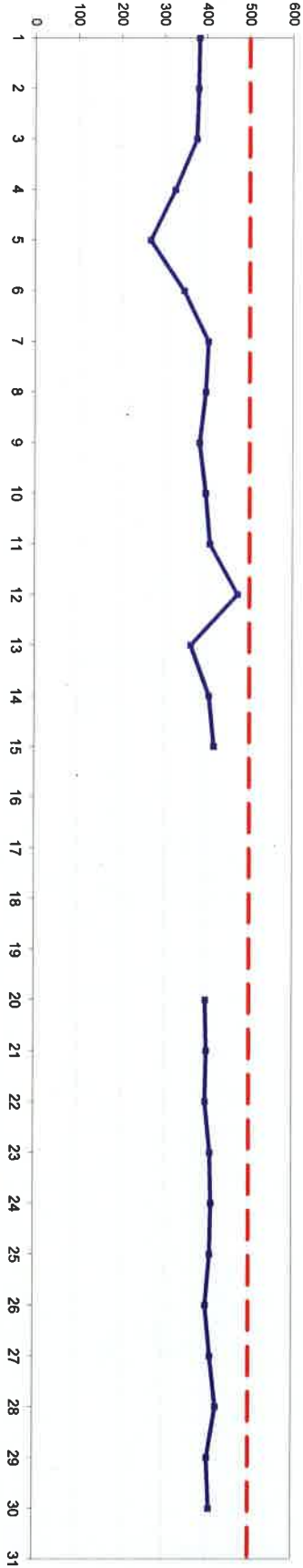
Permit Reference Number: BL10961EMV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

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

Form S4/A7  
Daily Average  
Monitoring Data  
for NOx



Kiln 4		November 2013																														
Daily average	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
	Monthly maximum	473	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	
	No. of invalid data	383	380	376	326	268	347	404	398	384	398	408	473	363	405	418					399	402	399	410	413	410	400	411	424	404	409	
	Total invalid 1/2 hours	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	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
	Valid exceeds ELV (Y/N)																															
Sum of exceedances																																

Signed  
(Authorised to sign as representative of Castle Cement Ltd)

Victoria Smith

Date 01/11/2013

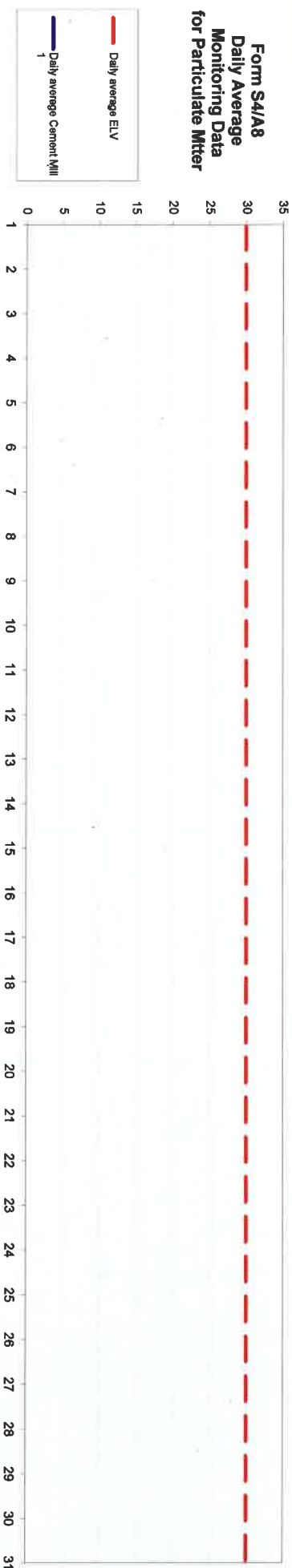


**Operator: Castle Cement Ltd**

**Installation: Padeswood Works**

### Kiwi Report of Continuous Monitored Emissions from Cement Mill 1 (Emission Point A3)

**Form S4/A8**  
**Daily Average**  
**Monitoring Data**  
**for Particulate Matter**



## Cement Mill 1

[illegible]

**Mill 1 not in Operation**

Signed Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

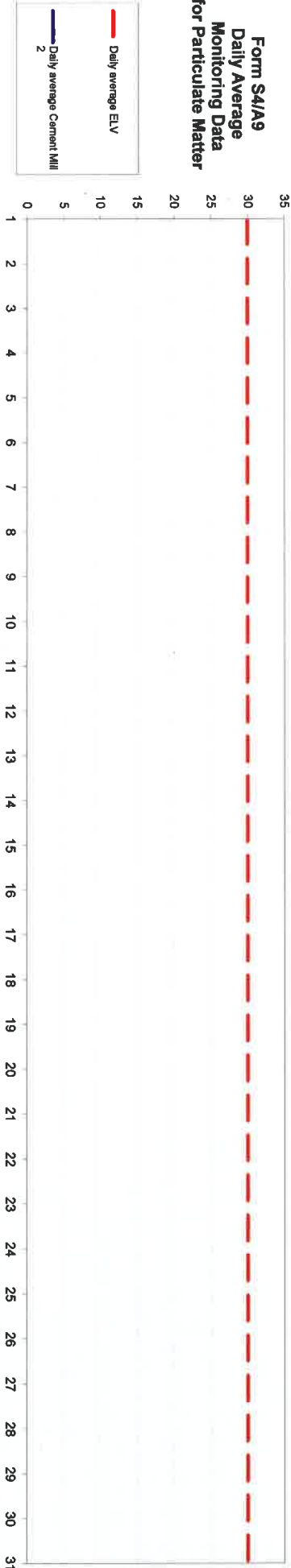
Permit Reference Number: BL10961BW010

Operator: Castle Cement Ltd

Installation: Padeswood Works

Kiln Report of Continuous Monitored Emissions from Cement Mill 2 (Emission Point A4)

Form S4/A9  
Daily Average  
Monitoring Data  
for Particulate Matter



Cement Mill 2

	November 2013																															
	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	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Daily average	Monthly maximum																															
	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	
	No. of invalid 1/2 hours																															
	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	N
	Value exceeds ELV (Y/N)																															

Mill 2 not in Operation

Signed Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

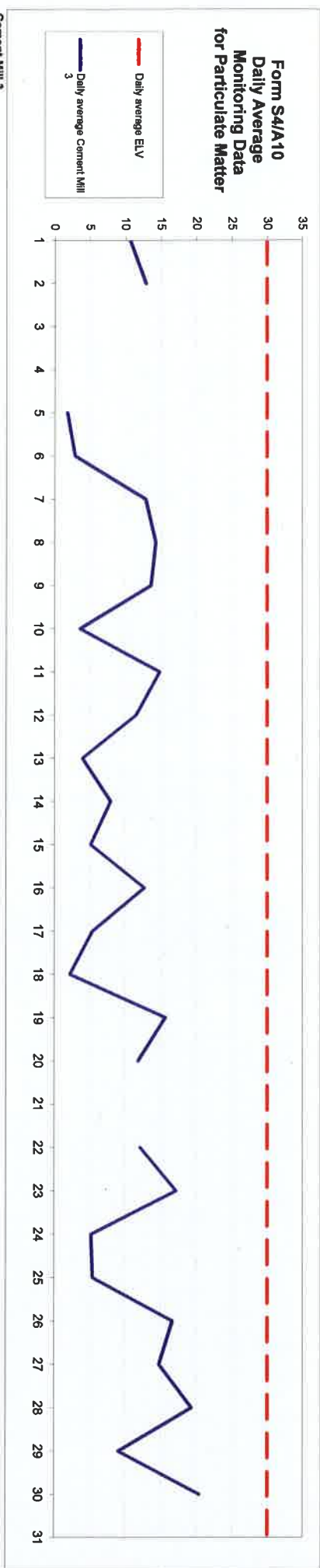


Permit Reference Number: BL10961BW010

Operator: Castle Cement Ltd

Installation: Padeswood Works

Kiln Report of Continuous Monitored Emissions from Cement Mill 3 (Emission Point A5)



Cement Mill 3		November 2013																															
		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	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Monthly maximum	20	Daily average Cement Mill 3	10.7	12.9	1.8	2.9	12.9	14.3	13.6	3.6	14.8	11.5	4.0	7.9	5.1	12.7	5.4	2.2	15.7	11.8	12.1	17.2	5.2	5.5	16.6	14.8	19.3	9.1	20.4				
Daily average	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	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	
	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 Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013

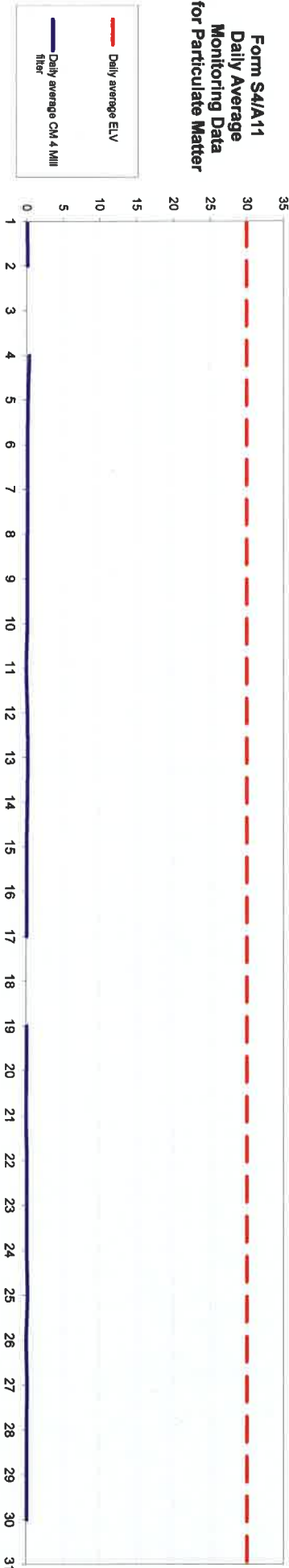
Permit Reference Number: BL10961BV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

Kiln Report of Continuous Monitored Emissions from Cement Mill 4 - mill filter (Emission Point A6)

Form S4/A11  
Daily Average  
Monitoring Data  
for Particulate Matter



Cement Mill 4 - mill filter																																
November 2013																																
	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																															
Monthly maximum	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Daily average	0	0.12	0.20	0.40	0.24	0.18	0.17	0.15	0.13	0.18	0.18	0.22	0.15	0.07	0.10	0.07	0.09	0.06	0.13	0.10	0.08	0.25	0.01	0.18	0.08	0.10	0.12					
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	Y	
Daily invalid 12 hours																																
Sum of exceedances																																
Total invalid 12 hours	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
Value exceeds ELV (Y/N)																																

Signed Victoria Smith Date 01/11/2013  
(Authorised to sign as representative of Castle Cement Ltd)

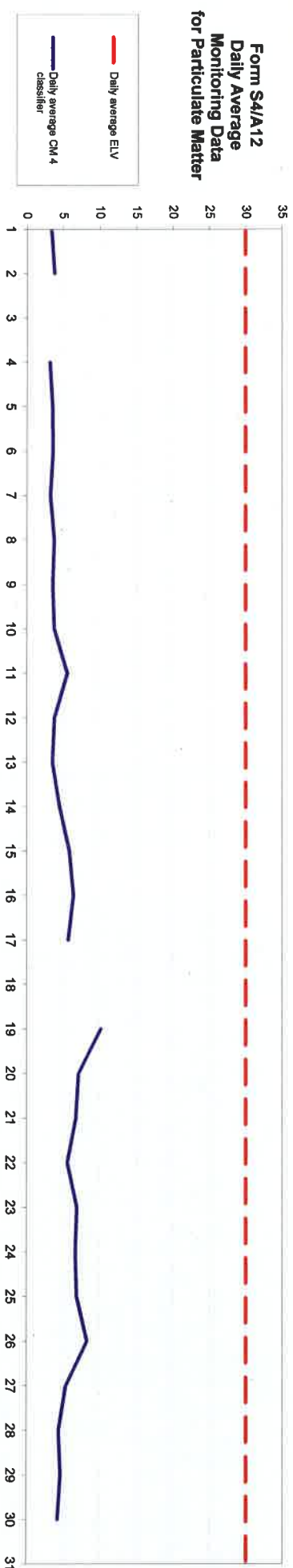
Permit Reference Number: BL10961BV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

Klin Report of Continuous Monitored Emissions from Cement Mill 4 - classifier (Emission Point A7)

Form S4/A12  
Daily Average  
Monitoring Data  
for Particulate Matter



Cement Mill 4 - classifier																																						
November 2013					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		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
					Monthly maximum		34	38	38	32	36	36	33	38	36	38	36	38	35	45	59	64	57	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Daily average					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 12 hours																																	
					No. of invalid 1/2 hours		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		
					Value exceeds ELV (Y/N)																																	
					Sum of exceedances																																	

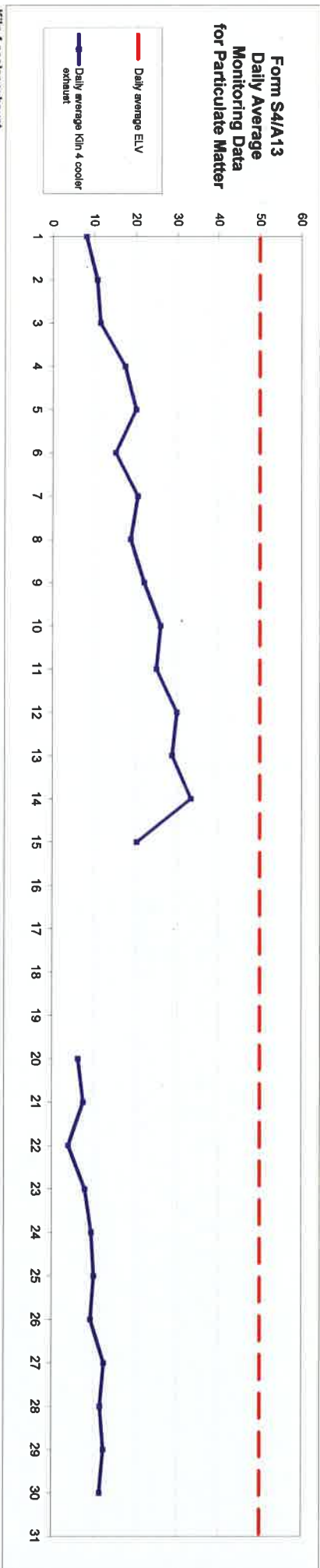
Signed Victoria Smith Date 01/11/2013  
(Authorised to sign as representative of Castle Cement Ltd)

Permit Reference Number: BL10961BNV010

Operator: Castle Cement Ltd

Installation: Padeswood Works

Kiln Report of Continuous Monitored Emissions from Kiln 4 cooler exhaust (Emission Point A9)



**Kiln 4 cooler exhaust**

	November 2013	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
Monthly maximum	33	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
No. of invalid days		Daily average Kiln 4 cooler exhaust	8.1	10.7	11.5	17.4	20.1	15.2	20.5	18.8	22.0	26.0	25.0	29.9	28.8	33.3	20.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Daily average		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	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
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 Victoria Smith  
(Authorised to sign as representative of Castle Cement Ltd)

Date 01/11/2013