

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To
Matthew Kelk
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

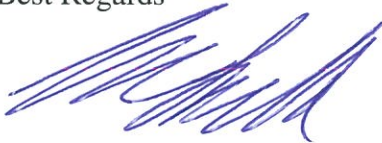
Fax - 01244 548805
Email north.wales.ppc@naturalresourceswales.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st March 2017.

During the period there have not been any reportable exceedances, you will however note that on 27th March there is a period of invalid data. This occurred when there was a single ½ hr period from 10.00-10.30 that CEMS was off line whilst the clock time was changed to BST.

If you require any further information or clarification please let me know

Best Regards



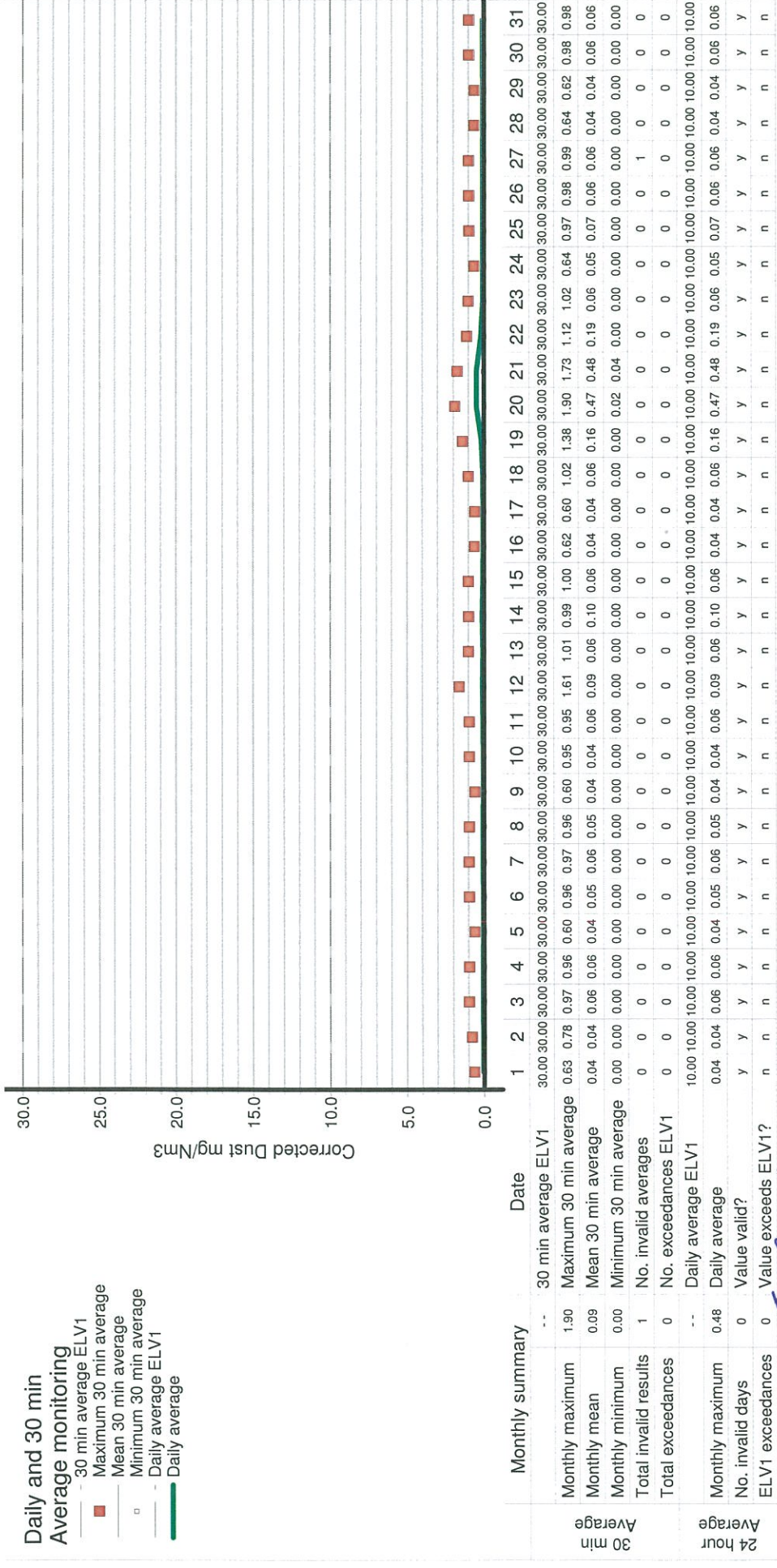
Kevin Smith
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A2 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of March 2017

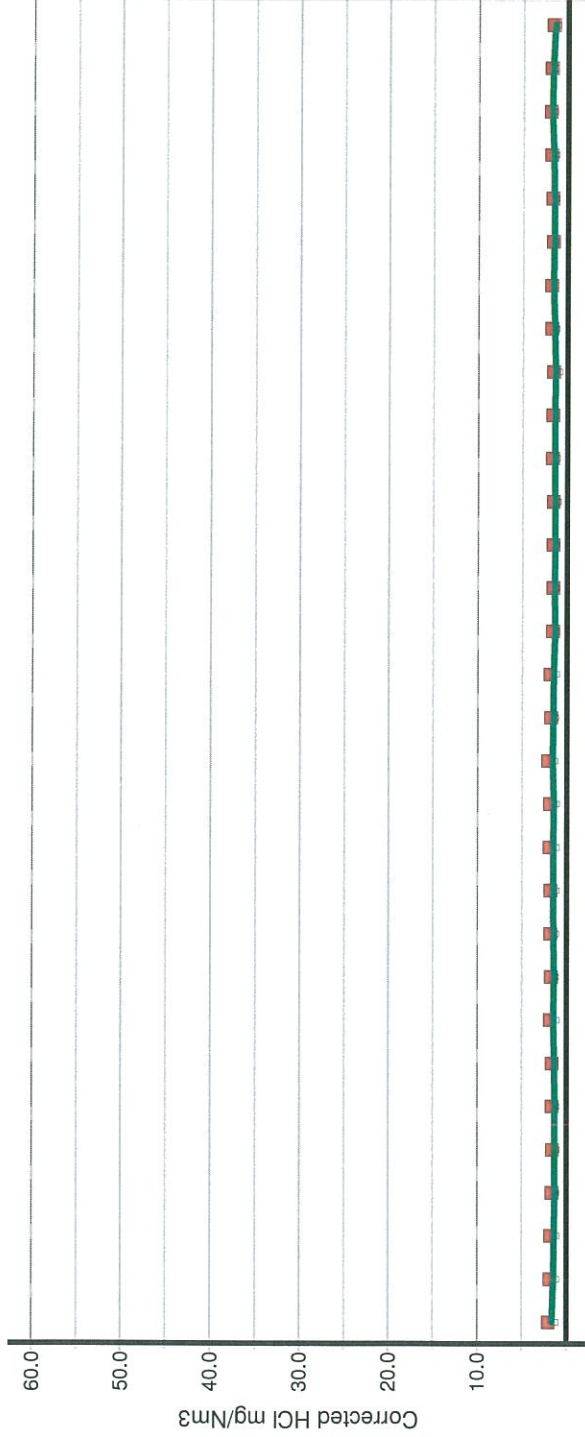


Signed Date: 27/4/17
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of March 2017



Monthly summary		Date																															
30 min Average	--	30 min average ELV1																															
	2.1	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
	1.4	2.0	1.9	1.8	1.6	1.6	1.6	1.6	1.8	1.7	1.8	1.8	1.9	1.9	2.1	1.8	1.8	1.6	1.6	1.5	1.5	1.7	1.6	1.6	1.6	1.8	1.8	1.6	1.7	1.9	2.0	1.8	1.6
	0.9	1.6	1.4	1.3	1.3	1.3	1.3	1.4	1.5	1.4	1.5	1.5	1.5	1.4	1.6	1.5	1.4	1.3	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.5	1.6	1.7	1.6	1.4	
	1	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.1	1.3	1.2	1.2	1.1	1.2	1.2	1.0	1.1	1.2	0.9	1.2	1.4	1.3	1.4	1.3	1.5	1.4	1.2	
24 hour Average	Total invalid results	No. invalid averages																															
	0	No. exceedances ELV1																															
	--	Daily average ELV1																															
	1.7	Daily average																															
	0	Value valid?																															
	0	Value exceeds ELV1?																															

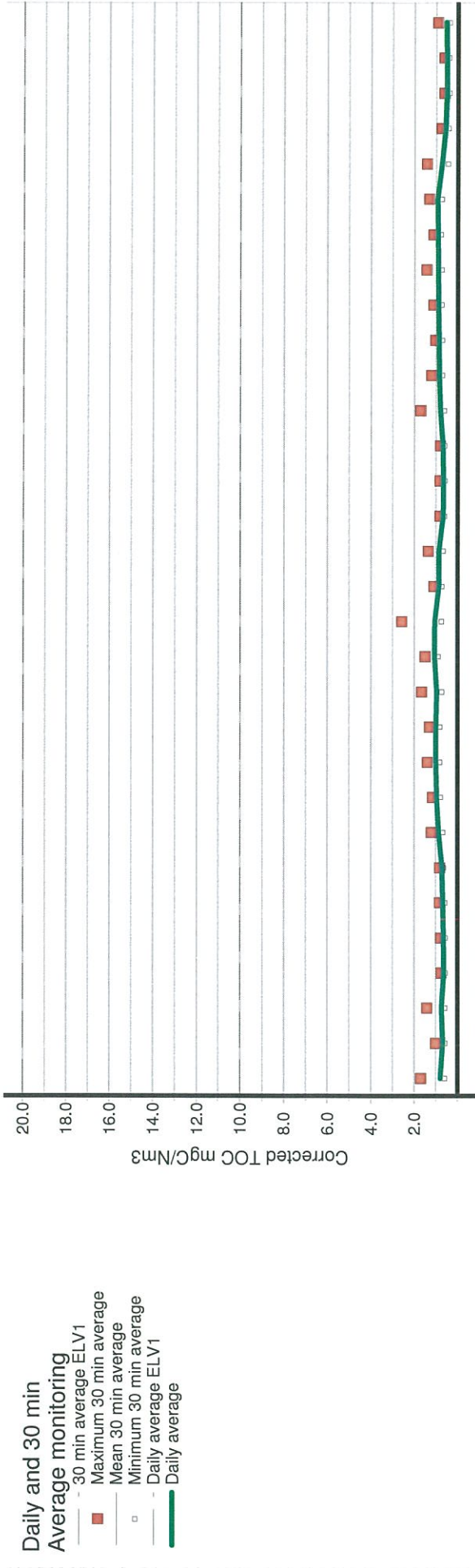
Signed:  (Authorised to sign as representative of Operator)

Date: 27/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of March 2017



Monthly summary		Date																																		
30 min Average	Monthly maximum	--	30 min average ELV1																																	
	Monthly mean	2.6	Maximum 30 min average																																	
	Monthly minimum	0.8	Mean 30 min average																																	
	Total invalid results	0.4	Minimum 30 min average																																	
Total exceedances		1	No. invalid averages																																	
Monthly maximum		--	No. exceedances ELV1																																	
No. invalid days		1.1	Daily average ELV1																																	
ELV1 exceedances		0	Value valid?																																	
		0	Value exceeds ELV1?																																	

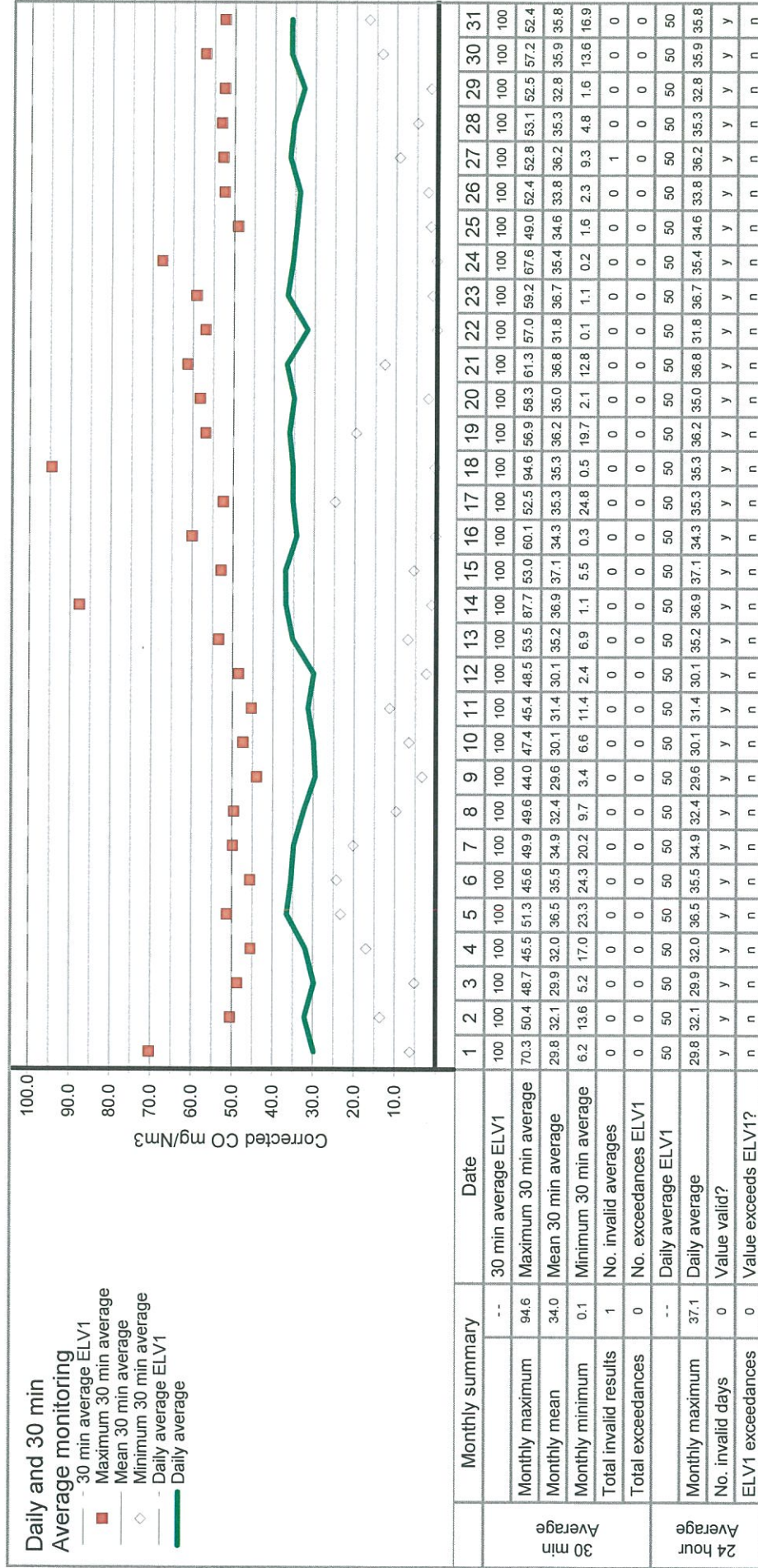
Signed
(Authorised to sign as representative of Operator)

Date: 27/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A5 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of March 2017



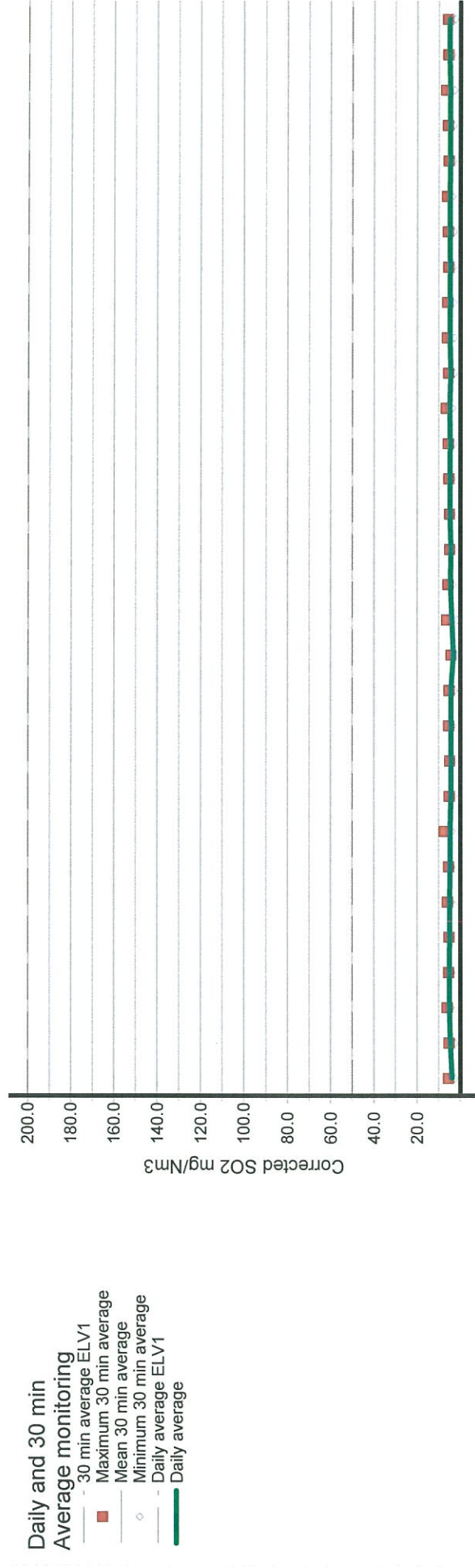
Signed
(Authorised to sign as representative of Operator)

Date: 27/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A6 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of March 2017



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	
30 min Average		--	30 min average ELV1	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	200
	Monthly maximum	7.5	Maximum 30 min average	5.5	5.3	6.1	5.5	5.4	6.0	5.4	7.5	5.2	4.9	5.4	5.3	4.4	6.4	5.8	5.0	5.2	5.5	5.6	6.7	5.6	6.2	5.9	5.5	5.8	6.1	5.4	5.7	6.7	5.6	5.8	
	Monthly mean	4.6	Mean 30 min average	3.8	4.6	5.0	5.1	5.0	5.0	4.8	4.8	4.4	4.2	4.5	4.4	3.2	3.9	4.6	4.4	4.8	4.9	4.8	4.9	4.5	4.8	4.9	4.8	4.9	4.8	4.6	4.7	4.7	4.9	4.9	
	Monthly minimum	1.4	Minimum 30 min average	2.7	2.6	4.6	4.4	4.6	4.5	4.3	4.0	3.5	3.6	3.7	2.8	2.1	1.4	3.6	3.2	4.1	3.9	3.0	3.9	2.8	3.0	3.3	3.7	3.1	3.9	3.4	3.3	2.9	4.1	2.6	
24 hour Average	Total invalid results	1	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Total exceedances	0	No. exceedances ELV1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly maximum	--	Daily average ELV1	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. invalid days	5.1	Daily average	3.8	4.6	5.0	5.1	5.0	5.0	4.8	4.8	4.4	4.2	4.5	4.4	3.2	3.9	4.6	4.4	4.8	4.9	4.8	4.9	4.5	4.8	4.9	4.8	4.9	4.8	4.6	4.7	4.7	4.9	4.9	
ELV1 exceedances	No. invalid days	0	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	
	ELV1 exceedances	0	Value exceeds ELV1?	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	

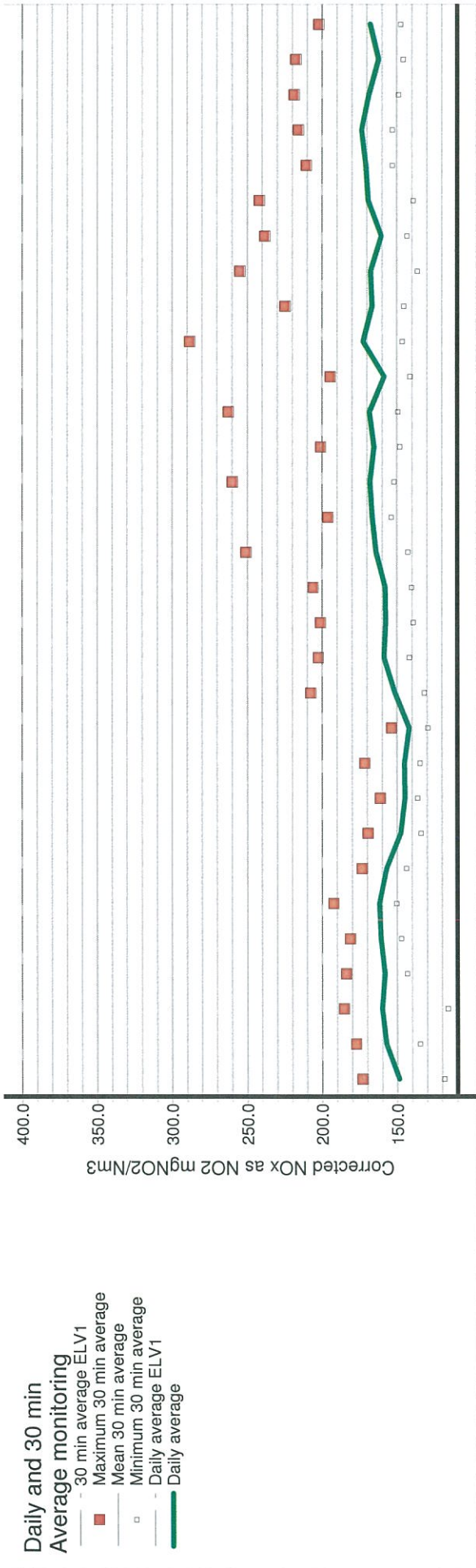
Signed
(Authorised to sign as representative of Operator)

Date 23/4/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of March 2017



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	
30 min Average	30 min average ELV1	--	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	
	Monthly maximum	288.4	173.3	177.3	185.4	184.0	181.2	192.5	173.3	169.4	161.3	171.5	153.7	207.7	202.5	201.2	206.0	250.9	196.3	259.9	201.0	262.5	194.6	288.4	224.8	254.8	238.2	242.0	210.6	215.8	218.7	217.6	202.2	
	Monthly mean	160.5	148.6	157.1	159.9	158.1	160.7	161.8	157.0	147.6	144.7	145.0	141.9	151.3	158.7	157.4	157.8	163.9	166.5	168.0	165.2	168.2	158.5	172.5	166.3	167.4	160.2	168.8	170.4	173.2	168.5	162.0	167.4	
	Monthly minimum	116.5	118.7	134.9	116.5	143.3	147.4	150.6	143.9	134.1	136.4	134.9	129.5	131.8	141.8	139.2	140.3	142.8	153.7	151.9	148.1	149.2	141.3	146.4	145.6	136.4	143.3	139.1	153.0	148.7	145.8	147.4		
24 hour Average	Total invalid results	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Total exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	--	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	200	200
	Monthly maximum	173.2	148.6	157.1	159.9	158.1	160.7	161.8	157.0	147.6	144.7	145.0	141.9	151.3	158.7	157.4	157.8	163.9	166.5	168.0	165.2	168.2	158.5	172.5	166.3	167.4	160.2	168.8	170.4	173.2	168.5	162.0	167.4	
24 hour Average	No. invalid days	0	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
	ELV1 exceedances	0	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

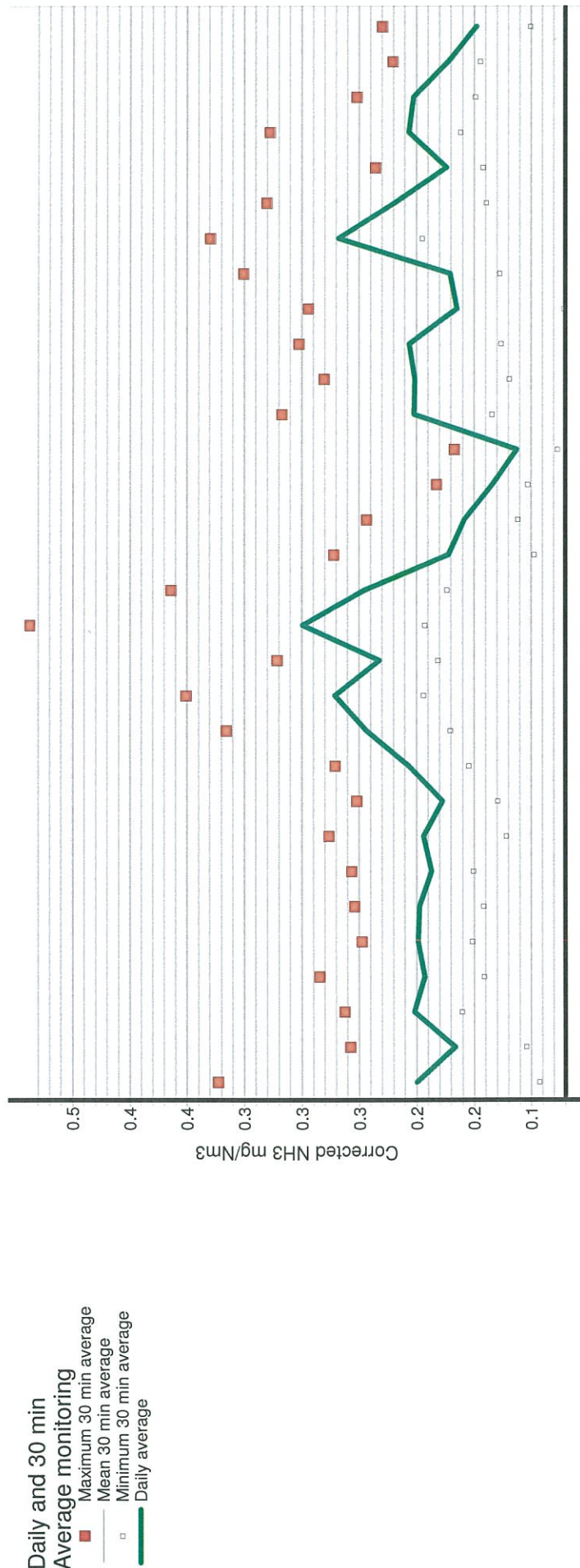
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of March 2017



Monthly summary		Date																															
30 min Average	Monthly maximum	0.5	Maximum 30 min average	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.2	
	Monthly mean	0.2	Mean 30 min average	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	
	Monthly minimum	0.1	Minimum 30 min average	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1
	Total invalid results	1	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 hour Average	Monthly maximum	0.3	Daily average	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
	No. invalid days	0	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

Signed
(Authorised to sign as representative of Operator)

Date: 27/4/17