

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

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

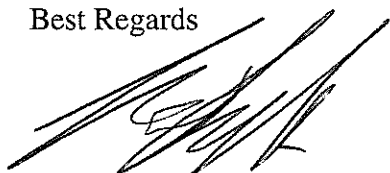
Fax - 01244 548805
Email north.wales.ppc@naturalresourceswales.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st July 2016.

On the 9th July there is indicated a period when invalid data is recorded, this occurred when CEMs was not available for 3 * ½ hour period. A problem was found with the CEMS computer requiring it to rebooted, this downtime will be added to the CEMs downtime annual log

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

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

Office +44 (0) 1244284393
Mobile +44 (0) 7736497124

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

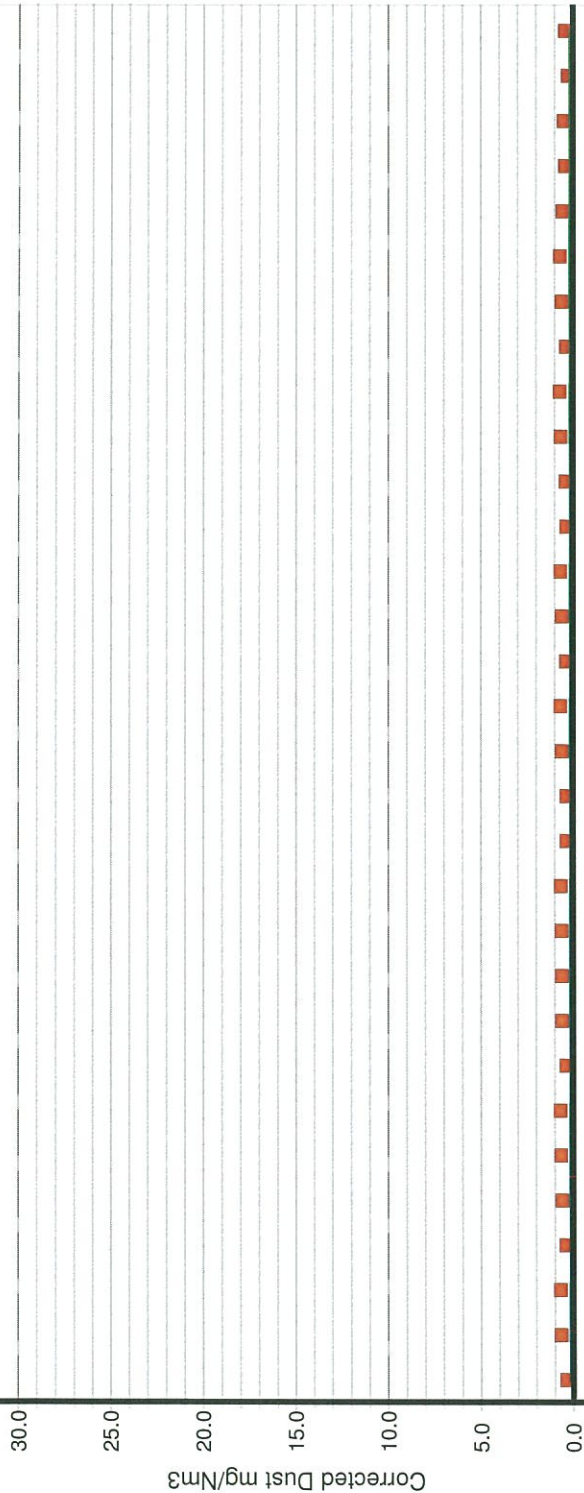
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A2 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of July 2016

Daily and 30 min

Average monitoring

- 30 min average ELV1
- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average



30 min 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
	--		30 min average ELV1		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 min Average	Monthly maximum	0.7	Maximum 30 min average		0.4	0.7	0.4	0.6	0.7	0.7	0.4	0.6	0.6	0.6	0.6	0.7	0.3	0.4	0.6	0.7	0.4	0.6	0.7	0.4	0.4	0.7	0.7	0.4	0.6	0.7	0.6	0.4	0.5	0.3	0.4
	Monthly mean	0.0	Mean 30 min average		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	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 minimum	0.0	Minimum 30 min average		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	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
	Total invalid results	3	No. invalid averages		0	0	0	0	0	0	0	0	3	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	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
	--		Daily average ELV1		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	0.0	Daily average		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	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
	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

Signed Date: 17/9/16

(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

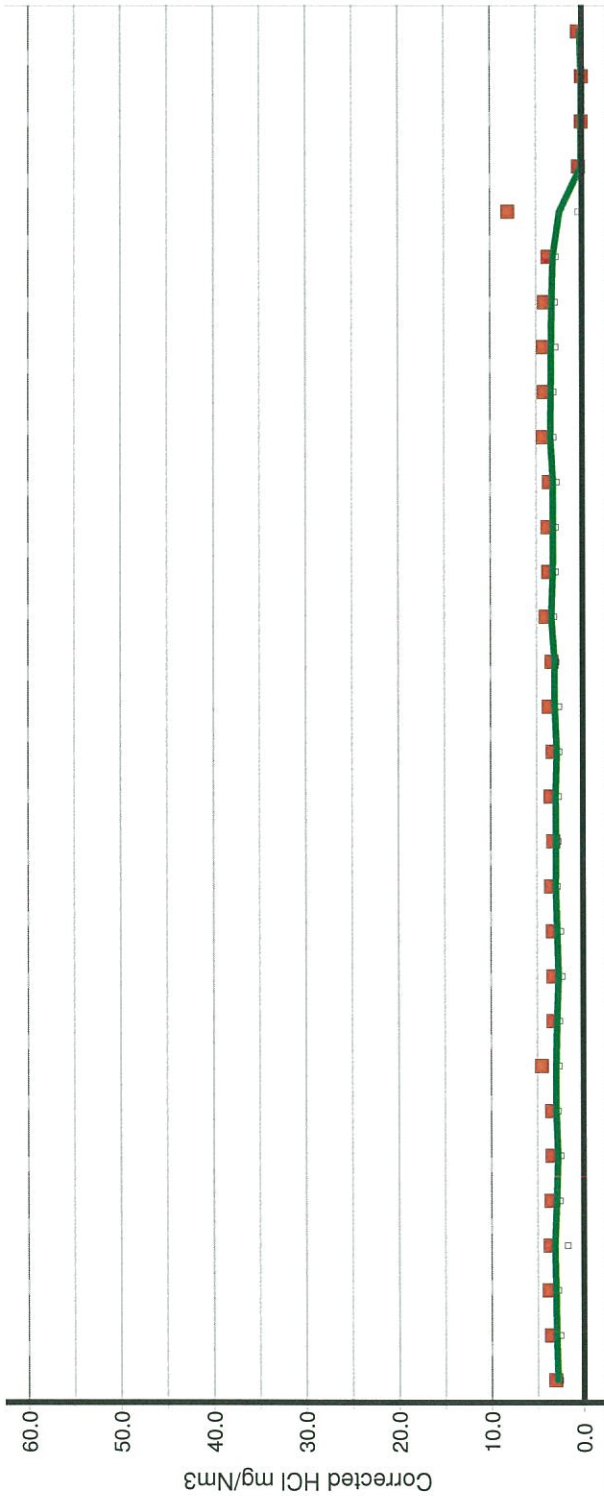
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of July 2016

Daily and 30 min

Average monitoring

- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average



30 min 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
	Monthly maximum	8.1	30 min average ELV1	--	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
	Monthly mean	2.6	Mean 30 min average		3.1	3.5	3.8	3.6	3.5	3.4	3.4	4.5	3.2	3.2	3.3	3.4	3.2	3.5	3.2	3.6	3.3	4.0	3.7	3.8	3.6	4.2	4.1	4.2	4.1	3.7	8.1	0.3	0.1	0.0	0.4
	Monthly minimum	0.0	Minimum 30 min average		2.8	3.0	3.0	3.1	2.9	2.8	3.0	3.0	2.9	2.7	2.8	3.0	2.9	3.0	2.8	3.0	3.0	3.4	3.2	3.2	3.2	3.4	3.4	3.3	3.3	3.1	2.4	0.1	0.0	0.0	0.2
	Total invalid results	3	No. invalid averages		2.6	2.5	2.8	1.7	2.6	2.4	2.7	2.6	2.5	2.3	2.4	2.8	2.7	2.6	2.6	2.6	2.8	3.1	2.9	2.9	2.8	3.1	2.9	2.9	2.8	0.4	0.0	0.0	0.0	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	3.4	Daily average ELV1	--	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
	No. invalid days	0	Value valid?		2.8	3.0	3.0	3.1	2.9	2.8	3.0	3.0	2.9	2.7	2.8	3.0	2.9	3.0	2.8	3.0	3.0	3.4	3.2	3.2	3.2	3.4	3.4	3.3	3.3	3.1	2.4	0.1	0.0	0.0	0.2
	ELV1 exceedances	0	Value exceeds ELV1?		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

Signed
(Authorised to sign as representative of Operator)

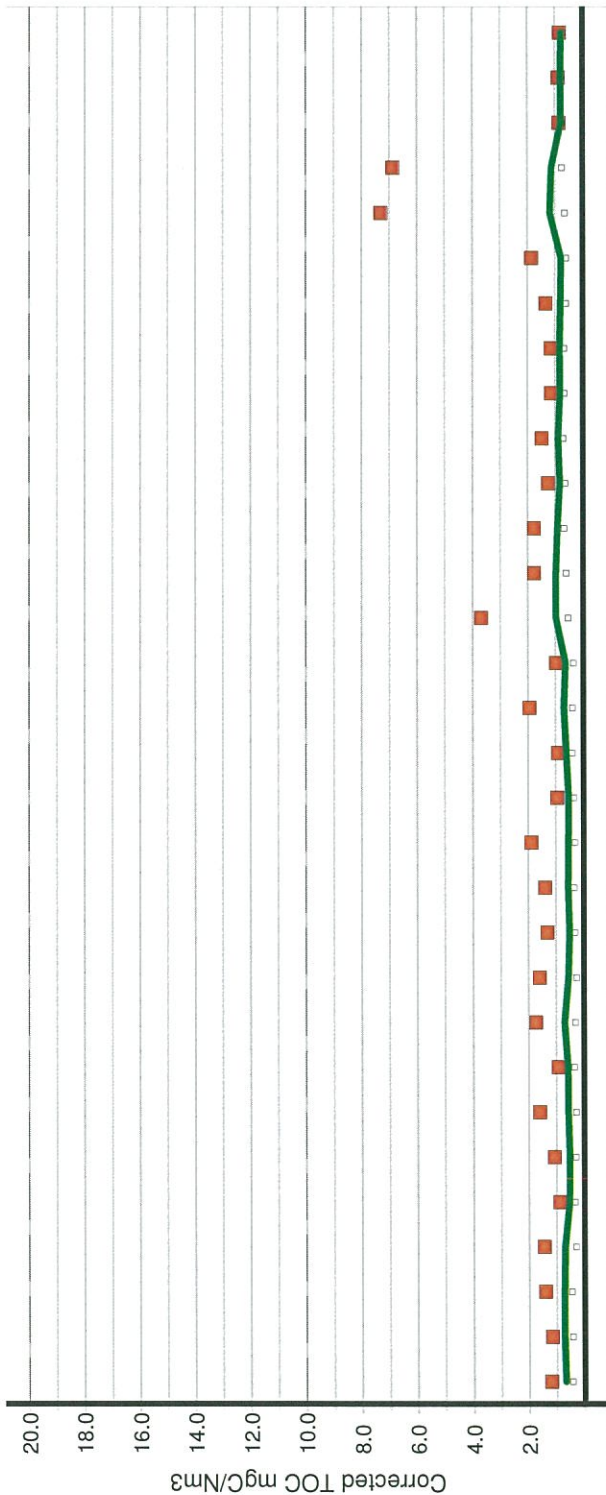
Date: 17/9/16

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 July 2016

- Daily and 30 min
Average monitoring
- Maximum 30 min average
 - Mean 30 min average
 - Minimum 30 min average
 - Daily average ELV1
 - Daily average



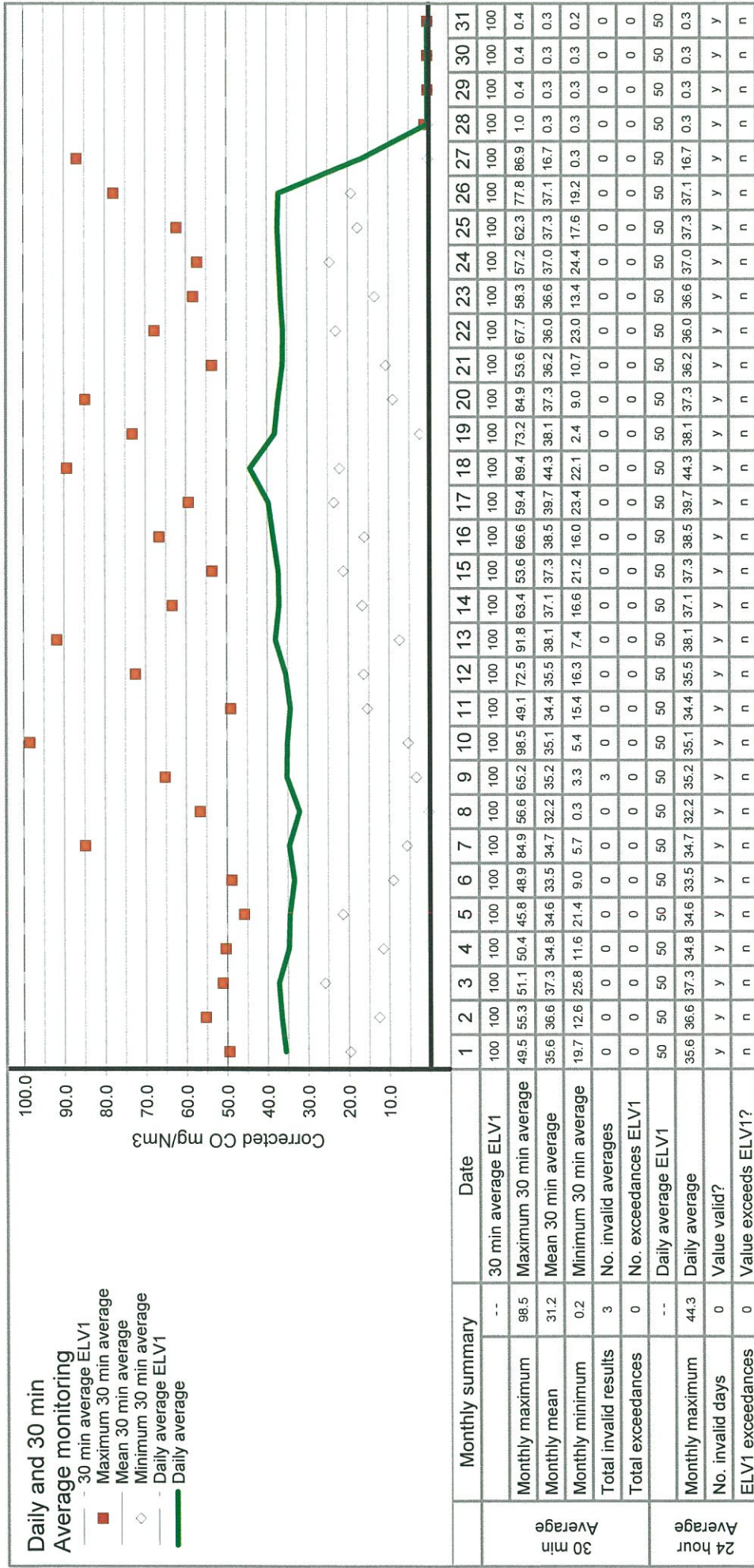
Average	Monthly summary		Date																														
	--	30 min average ELV1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
30 min	Monthly maximum	7.3	1.2	1.2	1.4	1.4	0.9	1.1	1.6	0.9	1.7	1.6	1.3	1.4	1.9	0.9	0.9	1.9	1.0	3.7	1.8	1.8	1.3	1.5	1.1	1.1	1.3	1.8	7.3	6.9	0.9	0.9	0.8
	Monthly mean	0.7	0.7	0.7	0.7	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.5	0.6	0.7	0.7	1.0	1.0	0.9	0.8	0.9	0.8	0.8	0.8	1.2	1.1	0.8	0.8	0.8	
	Monthly minimum	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.8	0.8	0.8	0.7	
	Total invalid results	3	No. invalid averages																														
24 hour	Total exceedances	0	No. exceedances ELV1																														
	--	Daily average ELV1	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	
	1.2	Daily average	0.7	0.7	0.7	0.7	0.5	0.5	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.5	0.6	0.7	0.7	1.0	1.0	0.9	0.8	0.9	0.8	0.8	0.8	1.2	1.1	0.8	0.8	0.8	
	No. invalid days	0	Value valid?																														
Average	ELV1 exceedances	0	Value exceeds ELV1?																														

Signed Date: 17/9/16
(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 /A5 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of July 2016



17/9/16

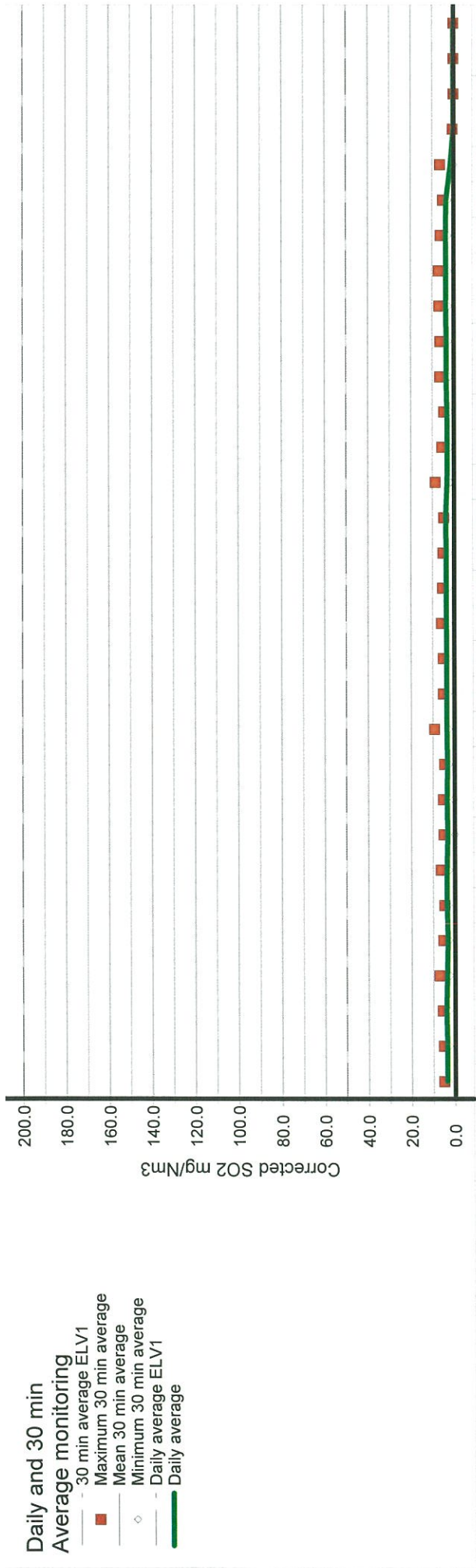
Date

Signed (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 /A6 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of July 2016



30 min 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
	Maximum	9.2	30 min average	200	5.1	5.2	5.6	7.1	5.4	4.8	6.3	5.0	5.2	4.6	9.2	5.1	5.1	5.8	5.4	5.1	4.7	8.6	5.5	4.7	6.4	6.3	6.8	7.0	6.1	5.0	6.3	0.5	0.0	0.0	0.0
24 hour Average	Mean	3.0	30 min average	200	3.8	3.8	4.0	3.7	3.3	3.7	3.8	3.3	3.6	3.4	3.5	3.6	3.6	3.7	3.8	3.7	3.9	3.3	3.2	3.2	3.6	3.5	3.7	3.6	3.7	3.5	1.4	0.0	0.0	0.0	0.0
	Minimum	0.0	30 min average	200	3.2	2.8	2.9	2.3	2.7	3.0	2.6	0.1	0.7	2.5	2.6	2.9	2.9	2.6	2.7	2.5	2.9	1.6	1.8	2.0	2.1	2.6	2.5	2.6	2.7	2.7	0.0	0.0	0.0	0.0	0.0
24 hour Average	Total invalid results	3	No. invalid averages	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0
24 hour Average	Monthly maximum	4.0	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	50
	No. invalid days	0	Daily average	3.8	3.8	4.0	3.7	3.3	3.7	3.8	3.3	3.6	3.4	3.5	3.6	3.6	3.6	3.7	3.8	3.7	3.9	3.3	3.2	3.2	3.6	3.5	3.7	3.6	3.7	3.5	1.4	0.0	0.0	0.0	0.0
24 hour Average	Value valid?	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	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	n

Signed
(Authorised to sign as representative of Operator)

Date: 17/9/16

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

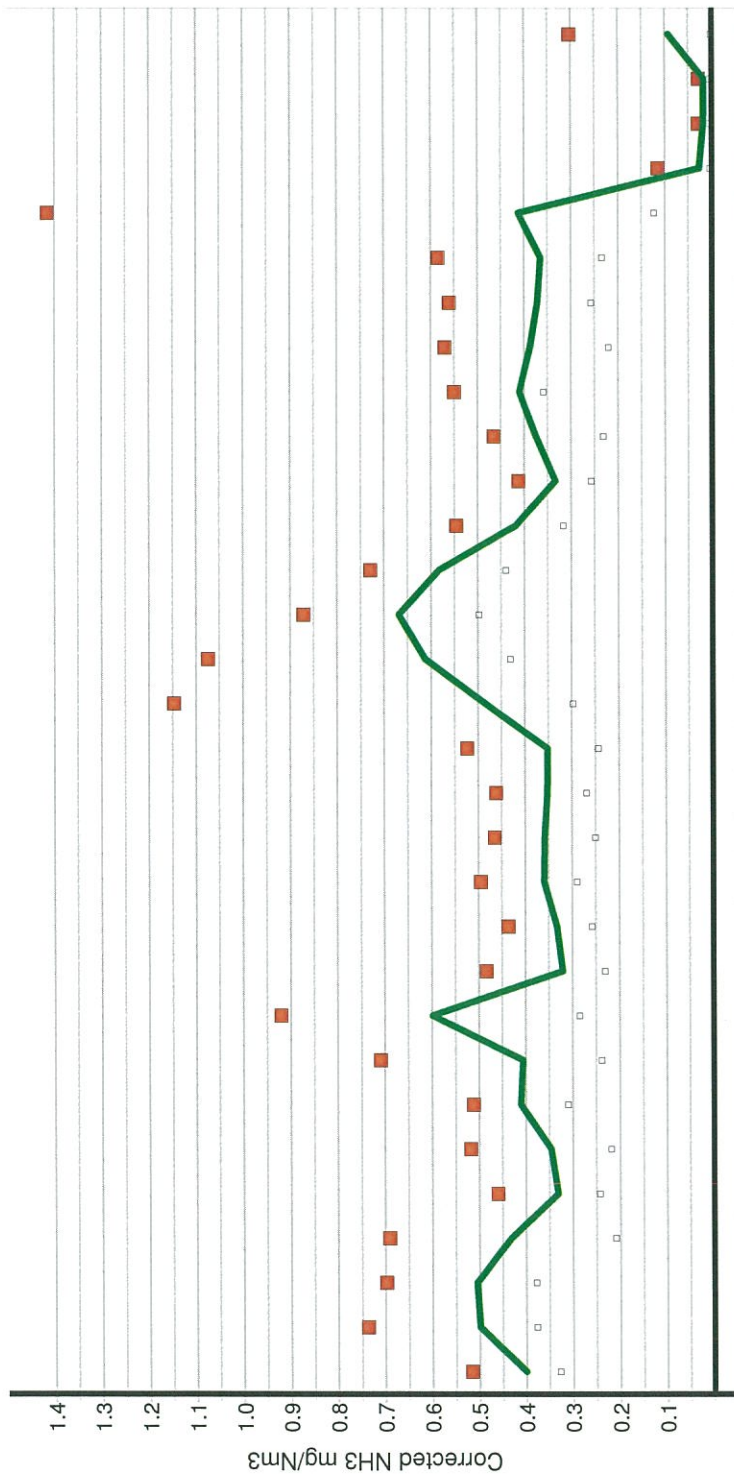
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of July 2016

Daily and 30 min

Average monitoring

- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- 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
30 min Average	Monthly maximum	1.4	Maximum 30 min average	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.7	0.9	0.5	0.4	0.5	0.5	0.5	1.1	1.1	0.9	0.7	0.5	0.4	0.5	0.5	0.6	0.6	0.6	1.4	0.1	0.0	0.0	0.3
	Monthly mean	0.4	Mean 30 min average	0.4	0.5	0.5	0.4	0.3	0.3	0.4	0.4	0.6	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.1
	Monthly minimum	0.0	Minimum 30 min average	0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.2	0.4	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0
	Total invalid results	3	No. invalid averages	0	0	0	0	0	0	0	0	3	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	0.7	Daily average	0.4	0.5	0.5	0.4	0.3	0.3	0.4	0.6	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	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: 17/9/16

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

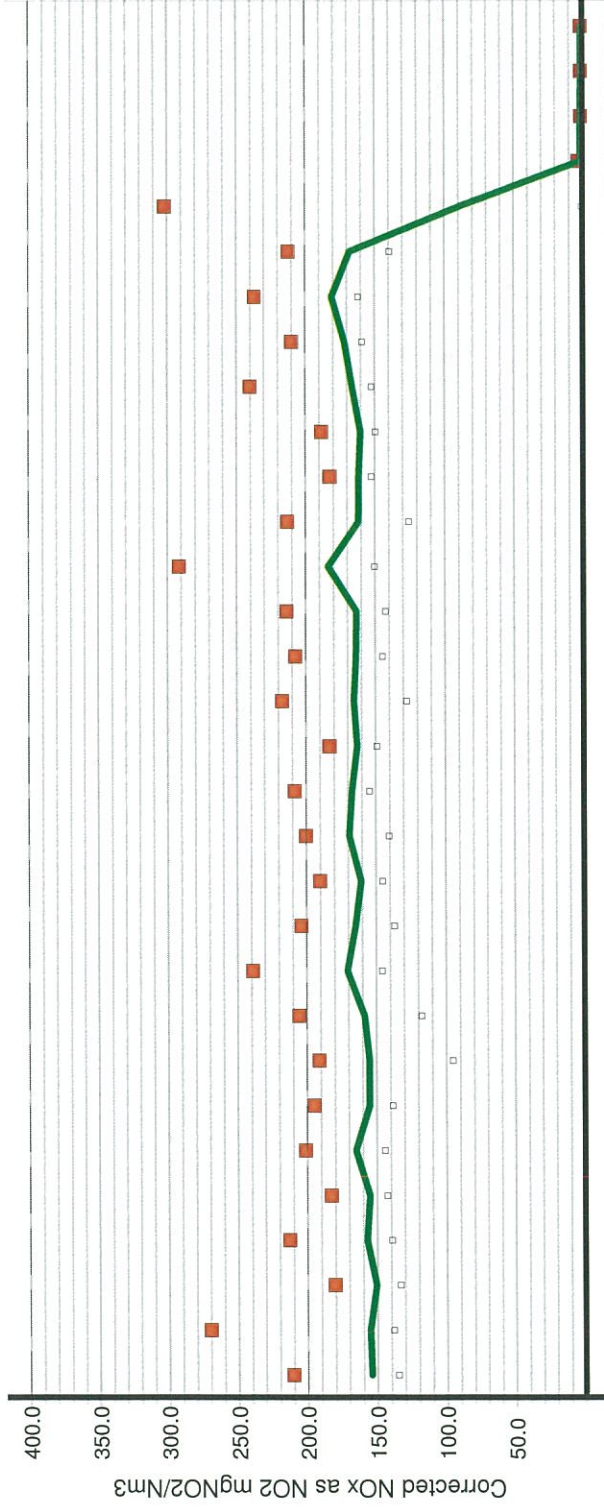
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of July 2016

Daily and 30 min

Average monitoring

- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average



	Monthly summary		Date																																
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		
	301.7	Monthly maximum	210.5	270.1	180.2	213.0	182.8	201.2	194.7	191.1	205.5	239.1	203.7	190.1	200.3	208.4	183.1	217.3	207.8	214.0	291.7	213.2	182.3	188.4	240.3	209.9	237.0	212.4	301.7	3.4	1.4	1.4	1.3		
	140.0	Monthly mean	154.0	155.1	150.5	157.2	155.2	165.0	155.2	155.1	158.6	170.6	164.8	160.5	169.1	167.0	163.0	165.4	164.0	163.4	183.9	161.8	161.5	160.2	166.1	171.6	180.9	167.7	88.7	1.2	1.2	0.7	0.8		
	0.4	Monthly minimum	134.9	138.2	133.4	139.4	142.4	144.0	138.3	95.2	117.4	145.8	136.7	145.4	140.4	154.3	148.9	127.7	144.8	142.6	150.4	125.8	152.5	149.6	152.5	159.0	161.9	139.3	0.8	0.6	0.9	0.4	0.4		
	3	Total invalid results	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		
24 hour Average	--	Daily 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	
	183.9	Monthly maximum	154.0	155.1	150.5	157.2	155.2	165.0	155.2	155.1	158.6	170.6	164.8	160.5	169.1	167.0	163.0	165.4	164.0	163.4	183.9	161.8	161.5	160.2	166.1	171.6	180.9	167.7	88.7	1.2	1.2	0.7	0.8		
	0	No. 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	y	
	0	ELV1 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	n	

Signed
(Authorised to sign as representative of Operator)

Date: 17/9/18