

UPM-Kymmene (UK)

**Memo**  
External  
11<sup>th</sup> August 2017  
KOS

1 (1)

## 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](mailto:north.wales.ppc@naturalresourceswales.gov.uk)

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

During the period there have not been any reportable exceedances.

You will note that there are no readings from the 3<sup>rd</sup> May through until the 17<sup>th</sup> May, this was as a result of our annual planned shutdown of the Boiler

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

Best Regards



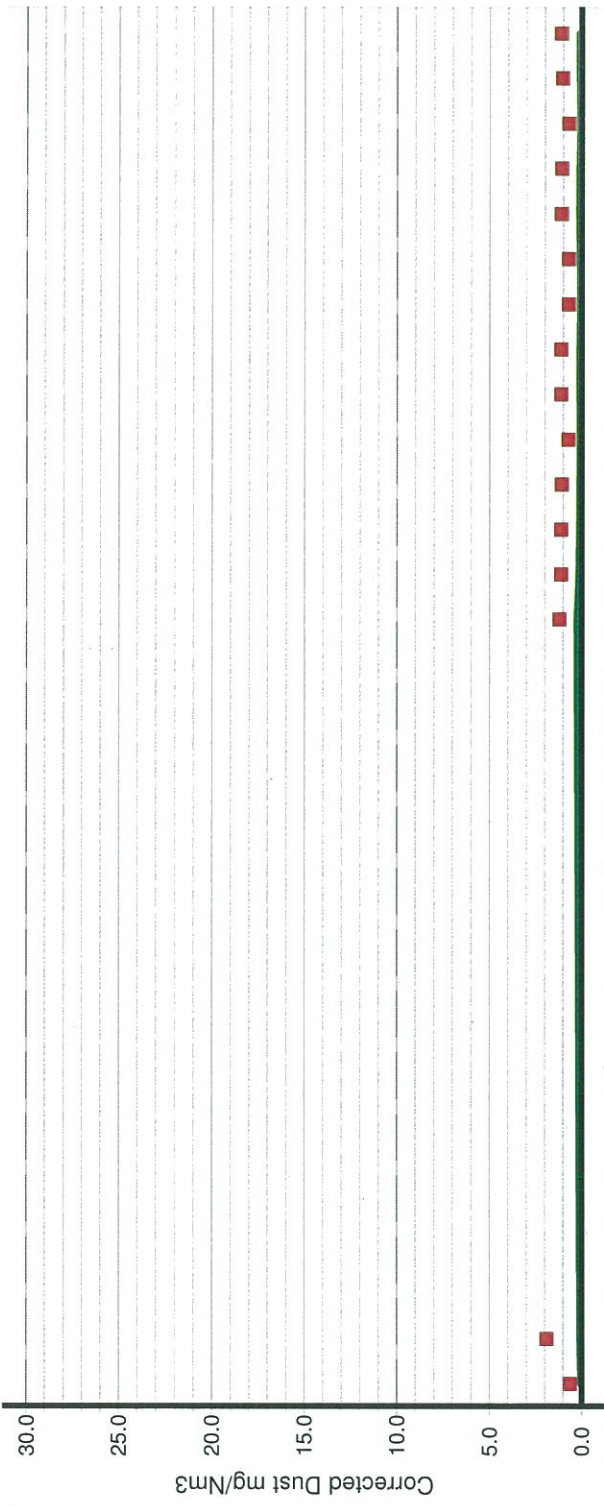
Kevin Smith  
Utilities Manager  
UPM (UK) Shotton

Office +44 (0) 1244284393  
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**Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of May 2017**

**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



	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	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
Maximum 30 min average	0.62	1.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.19	1.11	1.10	1.07	0.70	1.10	1.10	0.70	0.70	1.09	1.07	0.87	1.01	1.09	
Mean 30 min average	0.04	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25	0.14	0.10	0.10	0.07	0.08	0.09	0.06	0.08	0.11	0.08	0.05	0.07	0.07	
Minimum 30 min average	0.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.11	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
Total invalid results	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
Monthly maximum	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
24 hour Average	0.04	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25	0.14	0.10	0.10	0.07	0.08	0.09	0.06	0.08	0.11	0.08	0.05	0.07	0.07	
No. invalid days	y	y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y
ELV1 exceedances	n	n	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

*[Handwritten Signature]*

11/8/17

Date.....

Signed .....  
 (Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ  
 Installation: Shotton Paper Mill

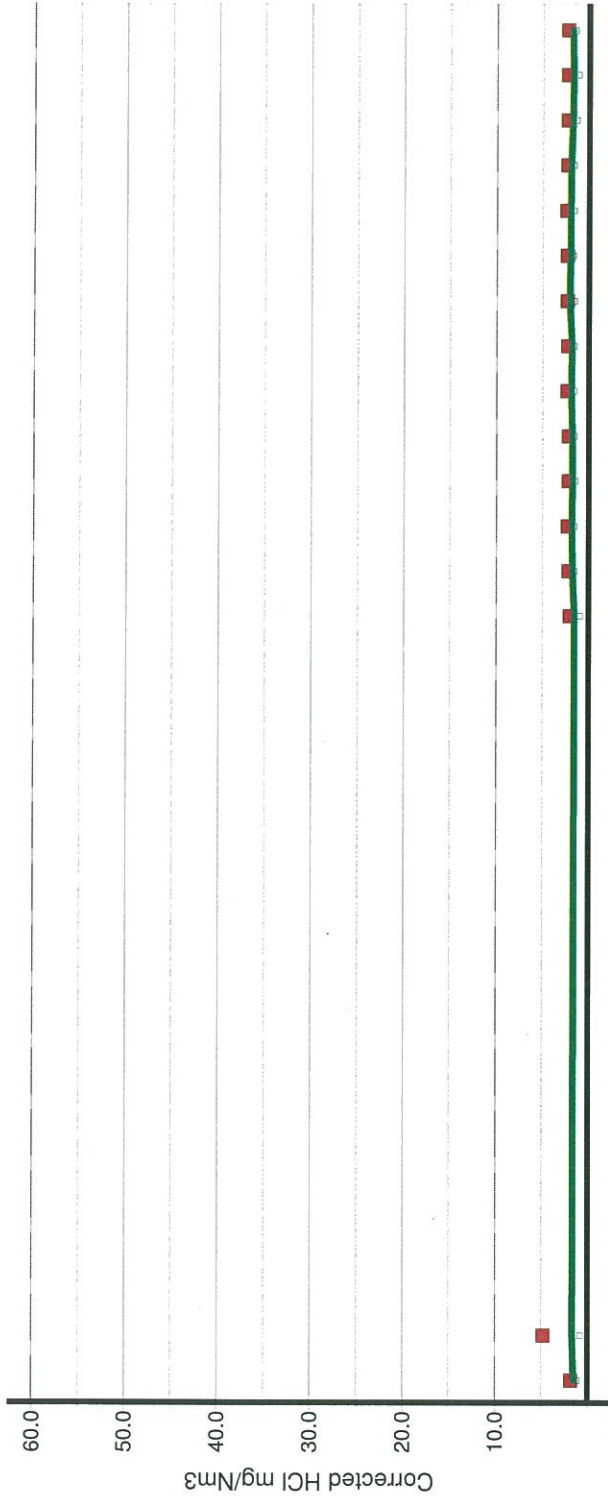
Operator: UPM-Kymmene (UK) Ltd  
 Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

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

**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



Monthly summary		Date	
		30 min average ELV1	
Monthly maximum	4.8	Maximum 30 min average	
Monthly mean	1.8	Mean 30 min average	
Monthly minimum	0.8	Minimum 30 min average	
Total invalid results	0	No. invalid averages	
Total exceedances	0	No. exceedances ELV1	
Monthly maximum	2.0	Daily average ELV1	
No. invalid days	15	Daily average	
ELV1 exceedances	0	Value valid?	
		Value exceeds ELV1?	

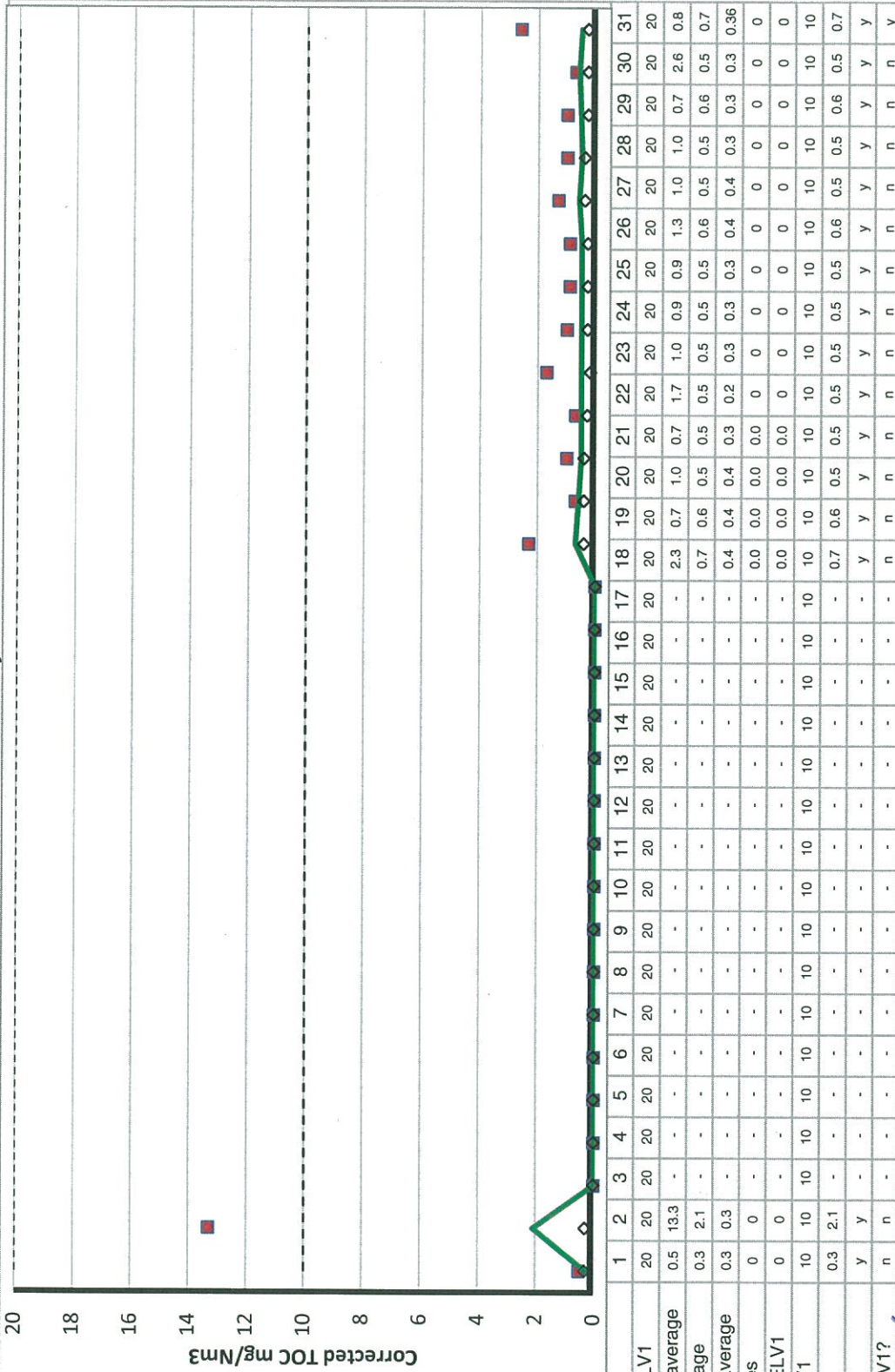
30 min Average	24 hour Average	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		1.8	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.2	2.2	2.1	2.2	2.3	2.3	2.3	2.4	2.3	2.3	2.2	2.2	2.2
		1.5	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5	1.7	1.8	1.7	1.8	1.9	1.8	2.0	2.0	1.9	1.9	1.7	1.7	1.7
		1.2	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.9	1.6	1.6	1.5	1.6	1.7	1.6	1.6	1.7	1.7	1.7	1.4	1.2	1.5
		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
		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
		1.5	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5	1.7	1.8	1.7	1.8	1.9	1.8	2.0	2.0	1.9	1.9	1.7	1.7	1.7
		y	y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	y	y	y	y	y	y	y	y	y	y	y	y	y	y
		n	n	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	n	n	n	n	n	n	n	n	n	n	n	n	n	n

Signed  Date: 11/8/17  
 (Authorised to sign as representative of Operator)

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

**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



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	30 min average ELV1	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	20
	Monthly mean	Maximum 30 min average	0.5	13.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	0.7	1.0	0.7	1.7	1.0	0.9	0.9	1.3	1.0	1.0	0.7	2.6	0.8	
	Monthly minimum	Mean 30 min average	0.3	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.7		
	Total invalid results	Minimum 30 min average	0	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.36	
	Total exceedances	No. invalid averages	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	
	24 hr Average	No exceedances 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	10
	No. invalid days	Daily average ELV1	0.3	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5	0.7		
	ELV1 exceedances	Value valid ?	y	y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y
		Value exceeds ELV1?	n	n	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

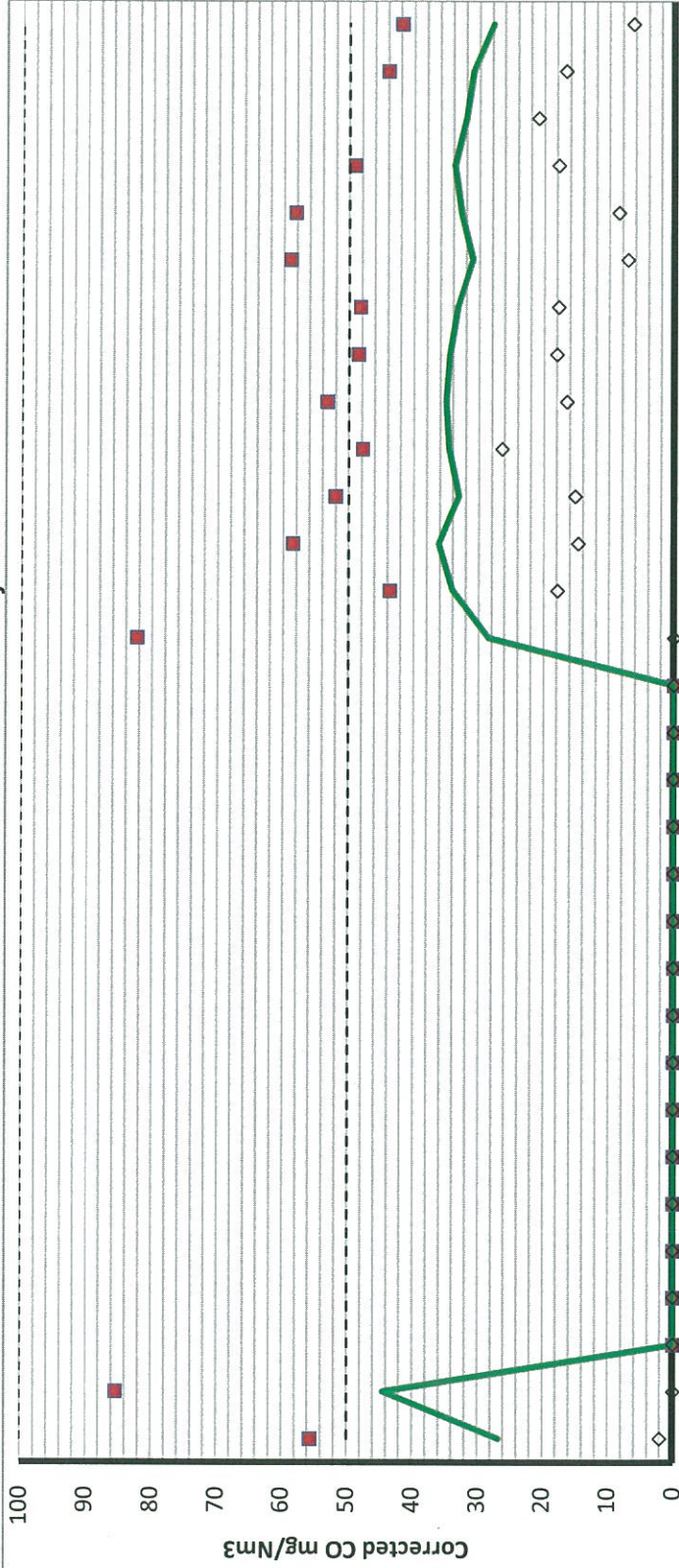
Signed  Date: 11/8/17

(Authorised to sign as representative of Operator)

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

**Daily and 30 min Average monitoring**

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



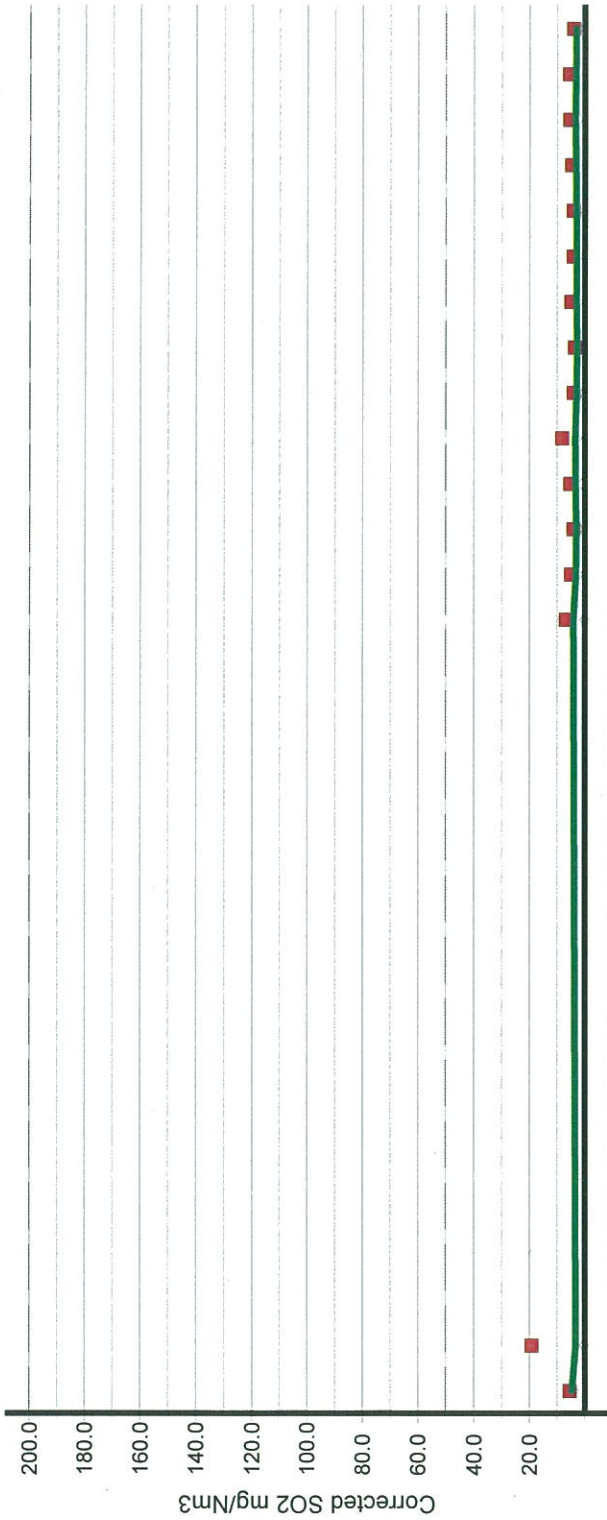
Monthly Summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
30 min Average	Monthly maximum	489.3	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Monthly mean	33.2	55.6	85.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82.3	43.6	58.5	52.0	47.8	53.3	48.5	48.2	58.9	58.1	49.0	489.3	43.9	41.8
	Monthly minimum	0.0	26.8	44.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.5	34.0	36.2	33.1	34.6	35.1	34.5	33.3	31.0	32.8	33.8	32.0	30.9	27.8
	Total invalid results	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	17.9	14.7	15.2	26.4	16.5	18.0	17.8	7.2	8.6	17.8	20.9	16.7	6.4
	Total exceedances	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 hr Average	Monthly maximum	44.5	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	50
	No. invalid days	4	26.8	44.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ELV1 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	0	0	0

Signed ..... Date: 11/08/17  
 (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 /A6 /Form Dated May 06

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



**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

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	
Monthly maximum	Maximum 30 min average	5.4	19.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.8	5.0	4.0	5.2	8.2	4.1	3.5	4.8	4.1	4.0	4.6	5.3	5.4	3.9	
Monthly mean	Mean 30 min average	4.6	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.1	3.2	3.0	3.2	3.3	2.9	2.7	2.8	2.8	2.9	3.1	3.3	3.0	2.9	
Monthly minimum	Minimum 30 min average	3.9	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	2.2	2.0	1.1	2.8	1.8	2.2	2.4	2.1	2.4	2.7	2.3	2.3	2.0	
Total invalid results	No. invalid averages	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total exceedances	No. exceedances ELV1	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 hour Average	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
Monthly maximum	Daily average	4.6	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.1	3.2	3.0	3.2	3.3	2.9	2.7	2.8	2.8	2.9	3.1	3.3	3.0	2.9	
No. invalid days	Value valid?	y	y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y
ELV1 exceedances	Value exceeds ELV1?	n	n	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

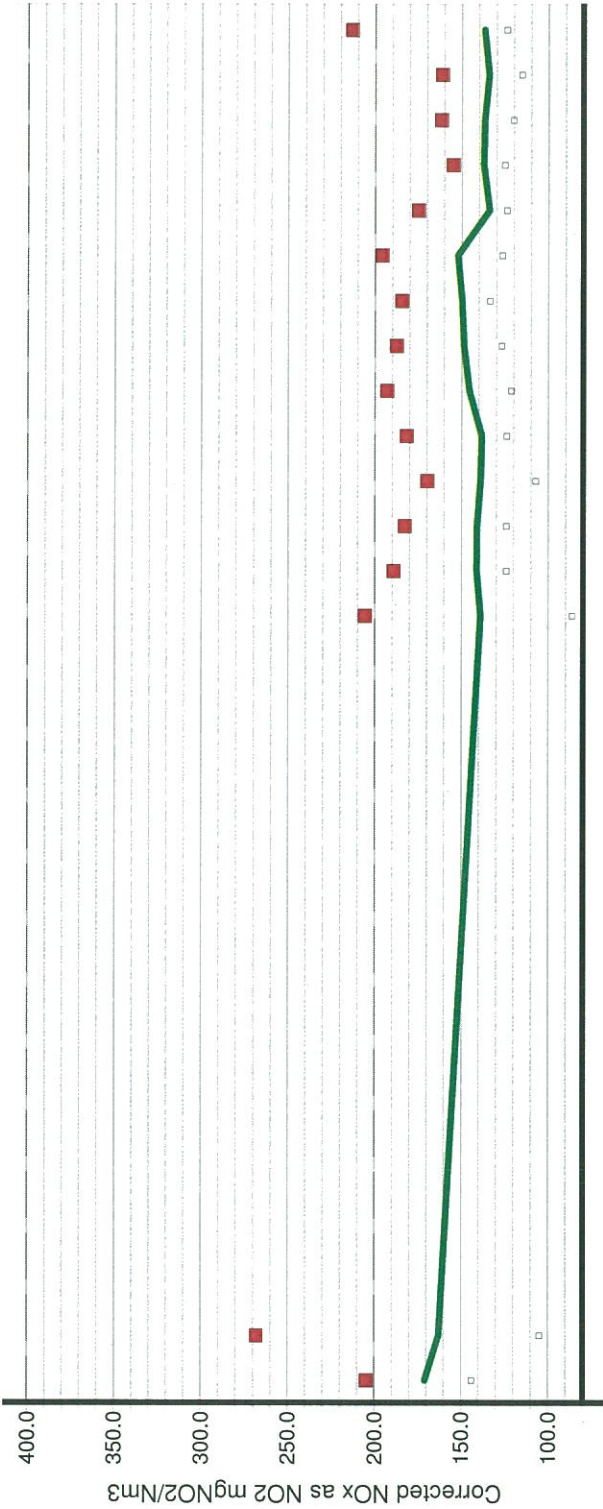
Signed  Date: 11/08/17

(Authorised to sign as representative of Operator)

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

**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



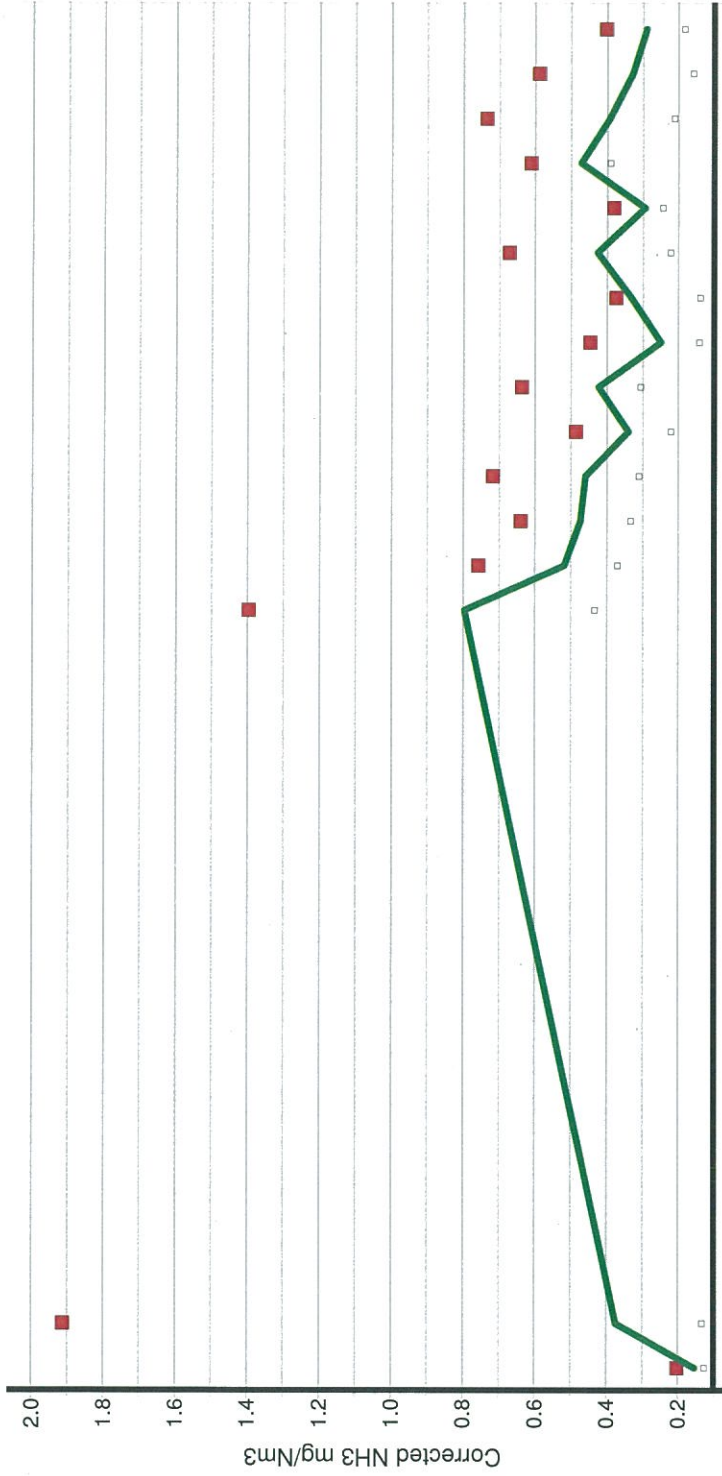
Monthly summary	Date	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid results	Total invalid results	Total exceedances	Monthly maximum	Monthly mean	Monthly minimum	No. invalid days	ELV1 exceedances
30 min Average	1	400	204.7	170.9	144.0	0	0	0	204.7	170.9	144.0	0	0
24 hour Average	2	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	3	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	4	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	5	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	6	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	7	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	8	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	9	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	10	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	11	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	12	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	13	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	14	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	15	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	16	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	17	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	18	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	19	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	20	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	21	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	22	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	23	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	24	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	25	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	26	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	27	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	28	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	29	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	30	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0
	31	400	268.0	162.8	104.8	0	0	0	268.0	162.8	104.8	0	0

Signed  Date: 11/08/17

(Authorised to sign as representative of Operator)

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

**Daily and 30 min Average monitoring**  
 ■ Maximum 30 min average  
 □ Mean 30 min average  
 □ Minimum 30 min average  
 — Daily average



	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	0.2	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	0.8	0.6	0.7	0.5	0.6	0.4	0.4	0.4	0.7	0.4	0.6	0.7	0.6	0.4
Monthly mean	0.2	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	0.5	0.5	0.5	0.3	0.4	0.2	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.3
Monthly minimum	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4	0.4	0.3	0.3	0.2	0.3	0.1	0.1	0.2	0.2	0.4	0.2	0.2	0.2	0.2
Total invalid results	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly maximum	0.2	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	0.5	0.5	0.5	0.3	0.4	0.2	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.3
No. invalid days	Y	Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Signed  Date: 11/8/17

(Authorised to sign as representative of Operator)