

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 2017.

During the period there have not been any reportable exceedances or non conformances to report. You will see that on the 12th and 13th July there are no readings this was as a result of the Boiler being shutdown due to a problem on site initially with a power failure and then with the control systems.

On the 18th July there was 3 readings of invalid data this was due to servicing being carried out on the CEMs system from which the 3*30 minute periods will be added to the CEMS 2017 validation report

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

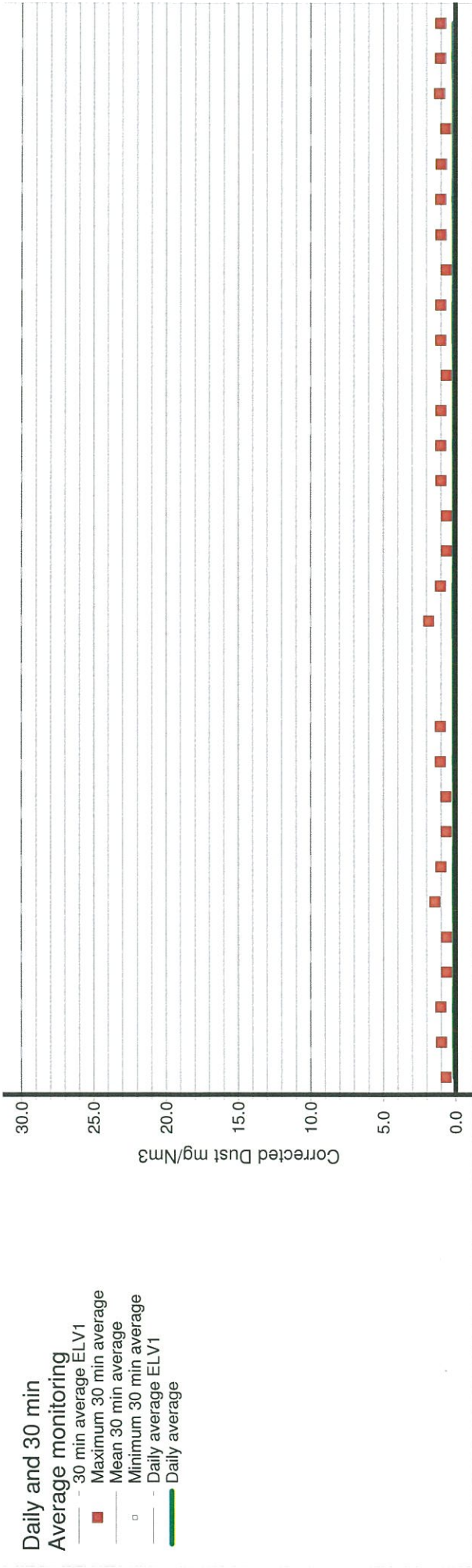
Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

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

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

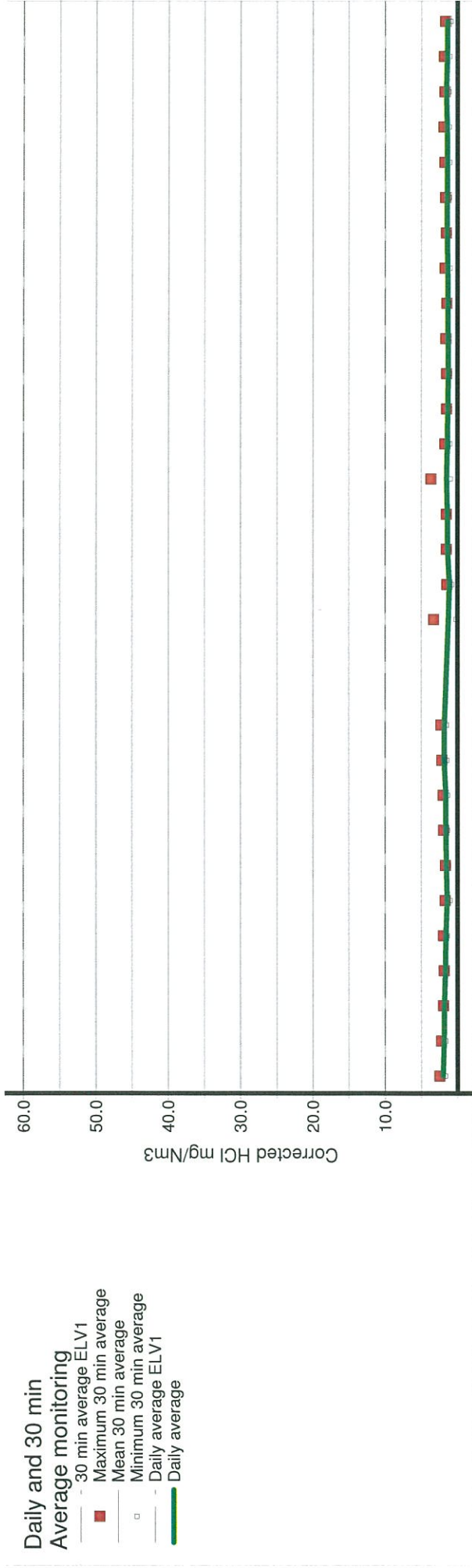


30 min Average	Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Maximum	Mean	Minimum	Total invalid results	Total exceedances	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	Value valid?	Value exceeds ELV1?	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	Value valid?	Value exceeds ELV1?	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	Value valid?	Value exceeds ELV1?
Monthly maximum	1.85	0.05	0.00	3	0	0.67	1.85	0.05	0.00	0	0	0.05	0.05	y	n	0.67	1.85	0.05	0.00	0	0	0.05	0.05	y	n	0.67	1.85	0.05	0.00	0	0	0.05	0.05	y	n
Monthly mean	0.05	0.05	0.00	0	0	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n
Monthly minimum	0.00	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0	0	0.00	0.00	y	n	0.00	0.00	0.00	0.00	0	0	0.00	0.00	y	n	0.00	0.00	0.00	0.00	0	0	0.00	0.00	y	n
Total invalid results	3	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 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
Monthly maximum	0.07	0.05	0.00	0	0	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n	0.05	0.05	0.05	0.00	0	0	0.05	0.05	y	n
No. invalid days	2	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
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
(Authorised to sign as representative of Operator)

Date: 16/8/17

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of July 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		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
30 min Average	Monthly maximum	3.6	Maximum 30 min average	2.4	2.2	2.0	1.8	1.7	1.6	1.4	1.5	1.6	1.6	1.8	1.8	--	--	3.3	1.5	1.5	1.5	3.6	1.7	1.5	1.5	1.6	1.4	1.7	1.5	1.6	1.7	1.9	1.7	1.8	1.6
	Monthly mean	1.5	Mean 30 min average	2.0	1.8	1.8	1.7	1.6	1.4	1.5	1.6	1.6	1.6	1.8	1.8	--	--	1.2	1.1	1.4	1.4	1.5	1.4	1.3	1.2	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.5	1.3	1.3
	Monthly minimum	0.2	Minimum 30 min average	1.7	1.7	1.6	1.5	1.4	1.0	1.2	1.4	1.4	1.4	1.5	1.5	--	--	0.2	0.8	1.2	1.2	1.0	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.1	1.1	1.2	1.2	1.1	0.9
	Total invalid results	3	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	3	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
	Monthly maximum	--	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	10
	No. invalid days	2	Value valid?	2	1.8	1.8	1.7	1.6	1.4	1.5	1.6	1.6	1.6	1.8	1.8	--	--	1.2	1.1	1.4	1.4	1.5	1.4	1.3	1.2	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.5	1.3	1.3
	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

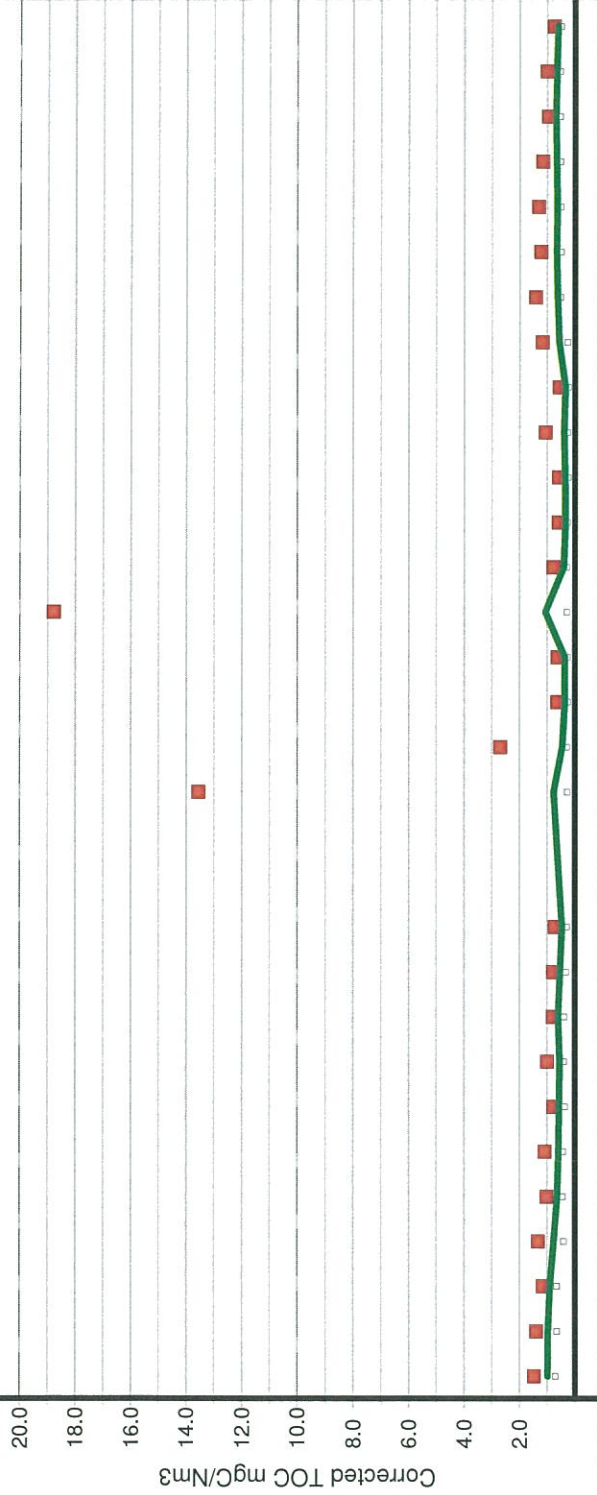
Signed  Date 16/8/17
(Authorised to sign as representative of Operator)

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

Daily and 30 min

Average monitoring

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



Monthly summary		Date																																	
30 min Average	--	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		
	18.8	Maximum	1.5	1.4	1.2	1.3	1.0	1.1	0.8	1.0	0.8	0.8	0.7	--	--	13.6	2.7	0.6	0.6	18.8	0.8	0.6	0.6	1.0	0.5	1.2	1.4	1.2	1.3	1.1	0.9	1.0	0.7		
	0.6	Mean	1.0	1.0	0.9	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.5	--	--	0.8	0.4	0.4	0.4	1.1	0.4	0.3	0.3	0.4	0.3	0.6	0.6	0.6	0.6	0.7	0.6	0.6			
	0.2	Minimum	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Total invalid results		3	No. invalid averages																																
Total exceedances		0	No. exceedances ELV1																																
24 hour Average	--	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		
	1.1	Daily average	1.0	1.0	0.9	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.5	--	--	0.8	0.4	0.4	0.4	1.1	0.4	0.3	0.3	0.4	0.3	0.6	0.6	0.6	0.6	0.7	0.6	0.6			
	2	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		
	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		

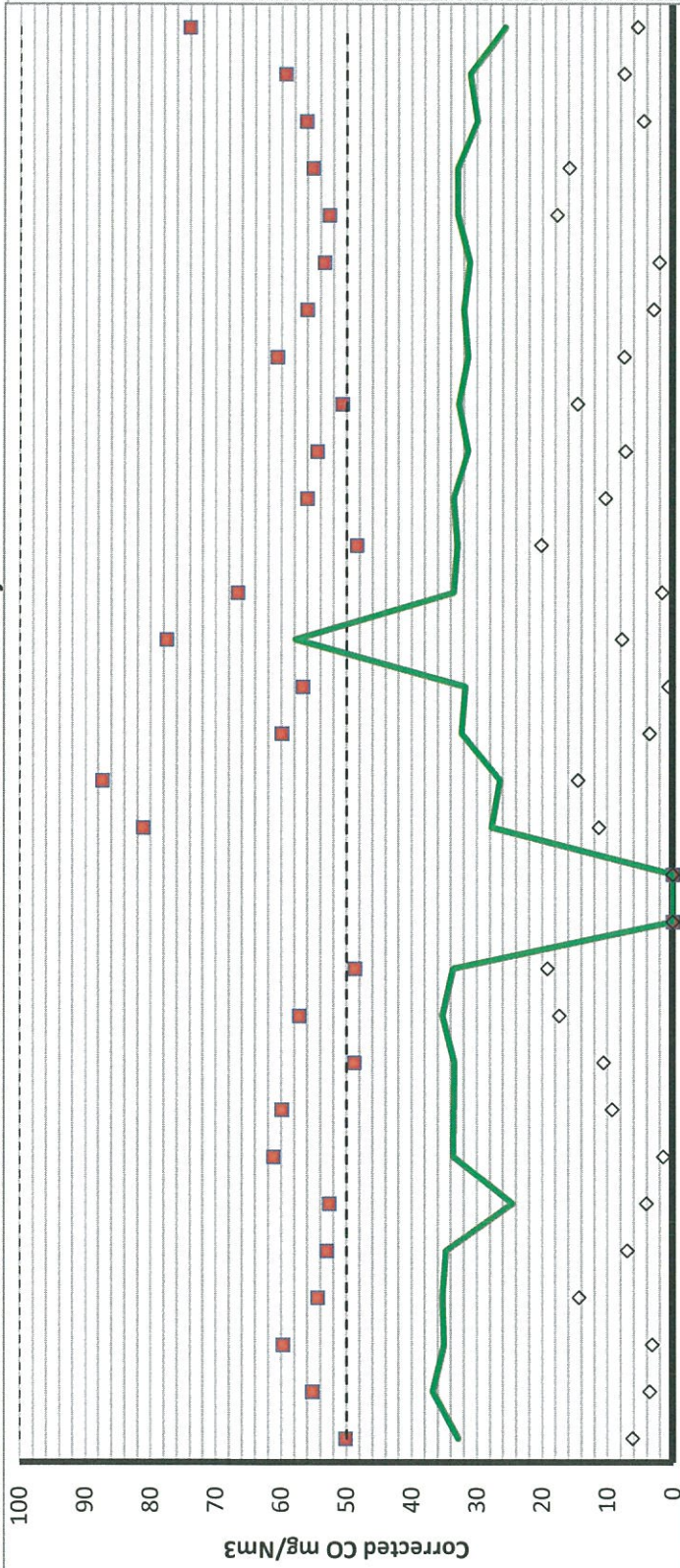
Signed Date: 16/8/17

(Authorised to sign as representative of Operator)

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

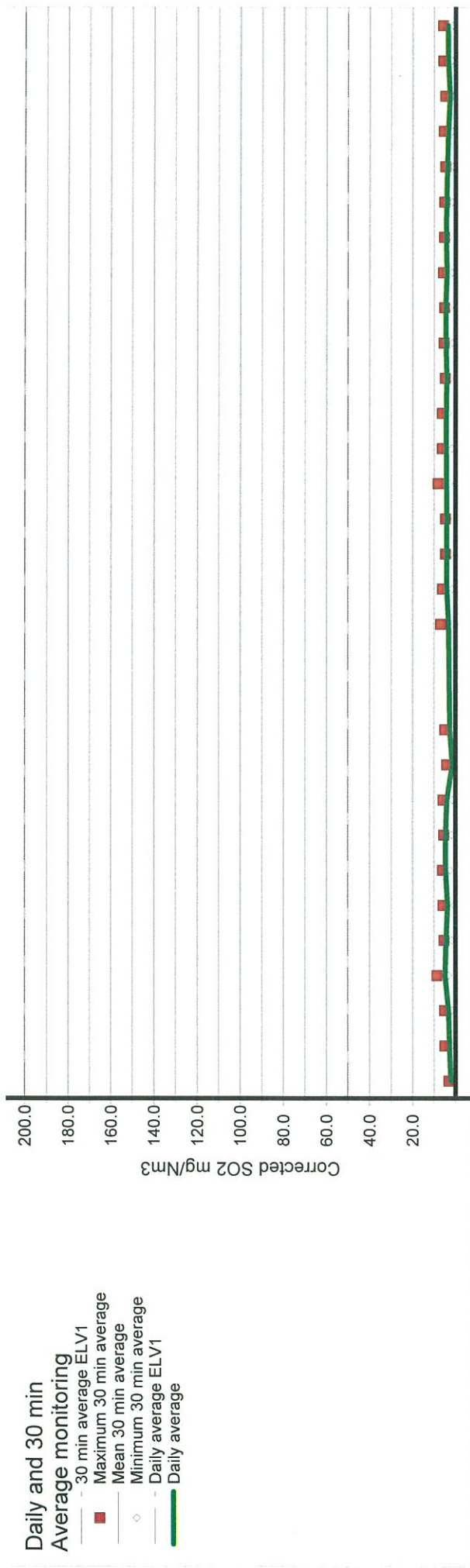


24 hr Average	Monthly Summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Monthly maximum	87.4	30 min average ELV1	--	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30 min	Monthly mean	32.9	Maximum 30 min average	87.4	50.1	55.2	59.7	54.4	53.0	52.6	61.2	59.9	48.8	57.2	48.7	-	-	81.1	87.4	59.9	56.7	77.5	66.6	48.4	56.0	54.5	50.6	60.6	56.0	53.4	52.6	55.1	56.1	59.3	74.0
	Monthly minimum	0.7	Mean 30 min average	32.9	36.8	35.1	35.1	35.3	34.8	24.6	33.7	33.6	33.5	35.3	33.7	-	-	27.8	26.5	32.4	31.8	57.9	33.6	33.0	33.6	31.4	32.8	31.4	32.0	31.1	32.9	32.9	29.9	31.0	25.6
	Total invalid results	3	Minimum 30 min average	0.7	3.6	3.2	3.2	14.4	7.0	4.1	1.5	9.3	10.6	17.4	19.2	-	-	11.3	14.5	3.6	0.7	7.8	1.7	20.2	10.3	7.3	14.6	7.5	3.0	2.1	17.8	15.9	4.5	7.5	5.4
24 hr	Total exceedances	0	No. invalid averages	3	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	Monthly maximum	57.9	No exceedances 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	0	Daily average ELV1	57.9	32.9	36.8	35.1	35.3	34.8	24.6	33.7	33.6	33.5	35.3	33.7	-	-	27.8	26.5	32.4	31.8	57.9	33.6	33.0	33.6	31.4	32.8	31.4	32.0	31.1	32.9	32.9	29.9	31.0	25.6
ELV1 exceeds		0	Value valid ?	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
Value exceeds ELV1?		0	Value exceeds ELV1?	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

Signed
Date: 16/8/17

(Authorised to sign as representative of Operator)

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

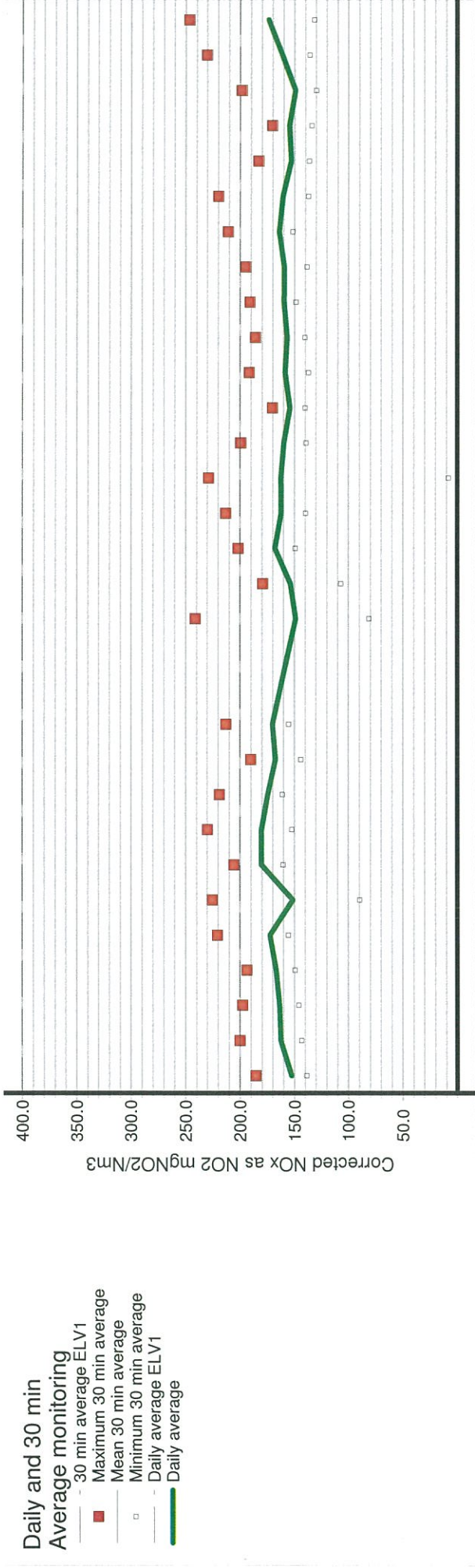


	Monthly summary		Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
30 min Average		--		30 min average ELV1	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
		8.6		Maximum 30 min average	3.1	5.0	5.1	8.6	5.2	5.8	5.9	5.5	5.8	4.0	4.9	--	--	--	6.9	6.0	4.7	4.6	8.1	6.1	6.1	4.8	5.3	5.1	5.6	5.2	5.1	4.6	5.3	4.6	5.5	5.7	
		3.7		Mean 30 min average	2.3	2.8	3.3	4.8	4.4	3.7	4.6	4.6	4.1	1.5	2.7	--	--	--	3.3	4.0	4.1	4.0	4.2	4.2	4.3	4.1	4.5	4.5	4.0	4.3	4.0	3.7	3.2	2.4	3.3	3.4	
		0.7		Minimum 30 min average	1.6	1.8	1.7	3.3	1.8	0.8	2.7	1.9	1.5	1.0	0.8	--	--	--	0.7	1.7	2.4	3.6	2.9	1.6	3.6	2.5	1.4	2.8	1.6	3.2	1.5	1.4	1.5	1.5	1.5	1.3	
		3		Total invalid results	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
24 hour Average				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	
		--		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	50
		4.8		Daily average	2.3	2.8	3.3	4.8	4.4	3.7	4.6	4.6	4.1	1.5	2.7	--	--	--	3.3	4.0	4.1	4.0	4.2	4.2	4.3	4.1	4.5	4.5	4.0	4.3	4.0	3.7	3.2	2.4	3.3	3.4	
		2		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	
		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

[Signature]

Signed Date 16/8/17
(Authorised to sign as representative of Operator)

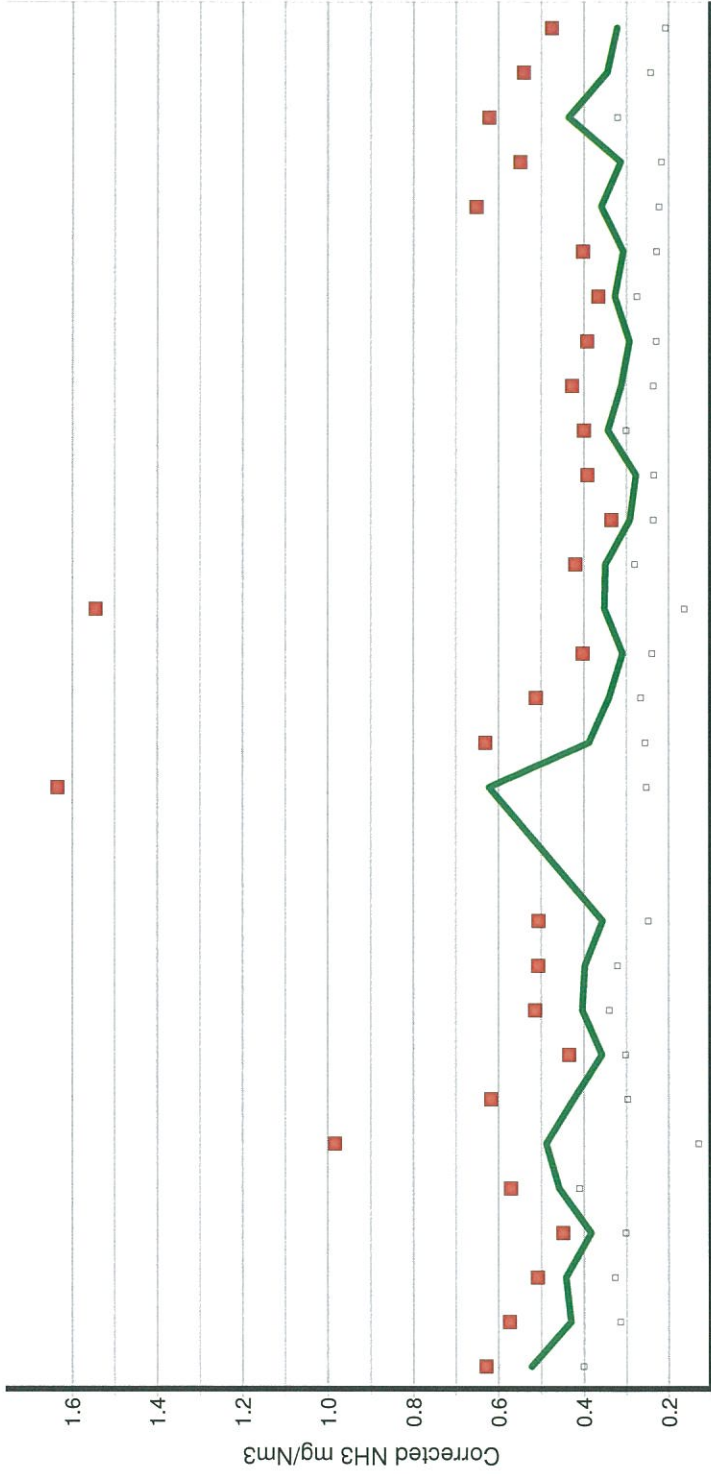
Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of July 2017



30 min 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 Average	Monthly maximum	--	246.6	Maximum 30 min average	185.5	200.1	197.5	193.6	220.7	225.2	205.5	229.9	218.9	190.2	212.9	--	--	241.0	179.2	201.7	213.1	228.9	199.3	170.2	191.5	186.0	190.8	194.7	210.9	219.9	182.8	170.4	198.3	230.5	246.6		
	Monthly mean	162.1		Mean 30 min average	152.6	162.4	163.6	166.8	172.5	151.4	180.4	180.3	174.7	167.5	170.2	--	--	148.9	153.9	167.9	162.2	162.6	159.8	154.1	158.5	156.7	159.5	159.3	163.7	160.5	152.9	154.5	149.0	160.9	173.5		
	Monthly minimum	8.0		Minimum 30 min average	138.6	143.4	145.9	149.3	155.7	89.7	160.5	152.4	161.1	144.0	155.4	--	--	80.9	107.1	149.2	139.9	8.0	139.4	140.2	136.9	140.3	148.8	138.2	151.7	136.9	136.3	134.0	129.9	135.9	131.7		
	Total invalid results	3		No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	0	3	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	
	Monthly maximum	--		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	200
	No. invalid days	180.4		Daily average	152.6	162.4	163.6	166.8	172.5	151.4	180.4	180.3	174.7	167.5	170.2	--	--	148.9	153.9	167.9	162.2	162.6	159.8	154.1	158.5	156.7	159.5	159.3	163.7	160.5	152.9	154.5	149.0	160.9	173.5		
	ELV1 exceedances	2		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	
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 16/8/17
(Authorised to sign as representative of Operator)

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



Monthly summary		Date																																
30 min Average	Monthly maximum	1.6																																
	Monthly mean	0.4																																
	Monthly minimum	0.1																																
	Total invalid results	3																																
24 hour Average	Monthly maximum	0.6																																
	No. invalid days	2																																

Signed Date: 16/8/17
(Authorised to sign as representative of Operator)