

UPM-Kymmene (UK)

Memo
External
6th August 2013
KOS

1 (1)

Month End Report



UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Environment Agency
Chester Road
Buckley
Flintshire
CH7 3AJ

Fax - 01244 548805

Email notif.ppcnwales@environment-agency.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st July 2013.

During the period there are no reportable incidents, you will note that on 6th and 13th July displayed on forms A4 (TOC) and A5 (Carbon Monoxide) that there are indicated some exceedances. These have not been reported as at the time the Boiler was using gas, due to either shutting down or starting up to carry out tube leak repairs in the Economiser.

If you require any further explanation of the above please let me know.

Best Regards

Kevin Smith
Utilities Manager
UPM-Kymmene (UK) Limited
Shotton Paper

Office 01244284393
Fax 01244285393
Mobile 07736497124

MONITORING RETURNS N. WALLS

CHECKED Vs AUTHORISATION

TRACING

OK FOR PUBLIC REGISTER

INITIALS DATE

JS	5/2/14
JB	5.2.14
JS	5/2/14
JB	E02m

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 2013

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	--	30 min average ELV1	0.7	Maximum 30 min average	0.0	Mean 30 min average	0.0	Minimum 30 min average	0.0	No. invalid results	0	No. exceedances ELV1	0	--	Daily average ELV1	0.0	Daily average	0	No. invalid days	0	Value valid?	0	Value exceeds ELV1?	0	Value exceeds ELV2?	0	Value exceeds ELV3?	0	Value exceeds ELV4?	0	Value exceeds ELV5?	0	Value exceeds ELV6?	0	Value exceeds ELV7?	0	Value exceeds ELV8?	0	Value exceeds ELV9?	0	Value exceeds ELV10?	0	Value exceeds ELV11?	0	Value exceeds ELV12?	0	Value exceeds ELV13?	0	Value exceeds ELV14?	0	Value exceeds ELV15?	0	Value exceeds ELV16?	0	Value exceeds ELV17?	0	Value exceeds ELV18?	0	Value exceeds ELV19?	0	Value exceeds ELV20?	0	Value exceeds ELV21?	0	Value exceeds ELV22?	0	Value exceeds ELV23?	0	Value exceeds ELV24?	0	Value exceeds ELV25?	0	Value exceeds ELV26?	0	Value exceeds ELV27?	0	Value exceeds ELV28?	0	Value exceeds ELV29?	0	Value exceeds ELV30?	0	Value exceeds ELV31?	0	Value exceeds ELV32?	0	Value exceeds ELV33?	0	Value exceeds ELV34?	0	Value exceeds ELV35?	0	Value exceeds ELV36?	0	Value exceeds ELV37?	0	Value exceeds ELV38?	0	Value exceeds ELV39?	0	Value exceeds ELV40?	0	Value exceeds ELV41?	0	Value exceeds ELV42?	0	Value exceeds ELV43?	0	Value exceeds ELV44?	0	Value exceeds ELV45?	0	Value exceeds ELV46?	0	Value exceeds ELV47?	0	Value exceeds ELV48?	0	Value exceeds ELV49?	0	Value exceeds ELV50?	0	Value exceeds ELV51?	0	Value exceeds ELV52?	0	Value exceeds ELV53?	0	Value exceeds ELV54?	0	Value exceeds ELV55?	0	Value exceeds ELV56?	0	Value exceeds ELV57?	0	Value exceeds ELV58?	0	Value exceeds ELV59?	0	Value exceeds ELV60?	0	Value exceeds ELV61?	0	Value exceeds ELV62?	0	Value exceeds ELV63?	0	Value exceeds ELV64?	0	Value exceeds ELV65?	0	Value exceeds ELV66?	0	Value exceeds ELV67?	0	Value exceeds ELV68?	0	Value exceeds ELV69?	0	Value exceeds ELV70?	0	Value exceeds ELV71?	0	Value exceeds ELV72?	0	Value exceeds ELV73?	0	Value exceeds ELV74?	0	Value exceeds ELV75?	0	Value exceeds ELV76?	0	Value exceeds ELV77?	0	Value exceeds ELV78?	0	Value exceeds ELV79?	0	Value exceeds ELV80?	0	Value exceeds ELV81?	0	Value exceeds ELV82?	0	Value exceeds ELV83?	0	Value exceeds ELV84?	0	Value exceeds ELV85?	0	Value exceeds ELV86?	0	Value exceeds ELV87?	0	Value exceeds ELV88?	0	Value exceeds ELV89?	0	Value exceeds ELV90?	0	Value exceeds ELV91?	0	Value exceeds ELV92?	0	Value exceeds ELV93?	0	Value exceeds ELV94?	0	Value exceeds ELV95?	0	Value exceeds ELV96?	0	Value exceeds ELV97?	0	Value exceeds ELV98?	0	Value exceeds ELV99?	0	Value exceeds ELV100?	0	Value exceeds ELV101?	0	Value exceeds ELV102?	0	Value exceeds ELV103?	0	Value exceeds ELV104?	0	Value exceeds ELV105?	0	Value exceeds ELV106?	0	Value exceeds ELV107?	0	Value exceeds ELV108?	0	Value exceeds ELV109?	0	Value exceeds ELV110?	0	Value exceeds ELV111?	0	Value exceeds ELV112?	0	Value exceeds ELV113?	0	Value exceeds ELV114?	0	Value exceeds ELV115?	0	Value exceeds ELV116?	0	Value exceeds ELV117?	0	Value exceeds ELV118?	0	Value exceeds ELV119?	0	Value exceeds ELV120?	0	Value exceeds ELV121?	0	Value exceeds ELV122?	0	Value exceeds ELV123?	0	Value exceeds ELV124?	0	Value exceeds ELV125?	0	Value exceeds ELV126?	0	Value exceeds ELV127?	0	Value exceeds ELV128?	0	Value exceeds ELV129?	0	Value exceeds ELV130?	0	Value exceeds ELV131?	0	Value exceeds ELV132?	0	Value exceeds ELV133?	0	Value exceeds ELV134?	0	Value exceeds ELV135?	0	Value exceeds ELV136?	0	Value exceeds ELV137?	0	Value exceeds ELV138?	0	Value exceeds ELV139?	0	Value exceeds ELV140?	0	Value exceeds ELV141?	0	Value exceeds ELV142?	0	Value exceeds ELV143?	0	Value exceeds ELV144?	0	Value exceeds ELV145?	0	Value exceeds ELV146?	0	Value exceeds ELV147?	0	Value exceeds ELV148?	0	Value exceeds ELV149?	0	Value exceeds ELV150?	0	Value exceeds ELV151?	0	Value exceeds ELV152?	0	Value exceeds ELV153?	0	Value exceeds ELV154?	0	Value exceeds ELV155?	0	Value exceeds ELV156?	0	Value exceeds ELV157?	0	Value exceeds ELV158?	0	Value exceeds ELV159?	0	Value exceeds ELV160?	0	Value exceeds ELV161?	0	Value exceeds ELV162?	0	Value exceeds ELV163?	0	Value exceeds ELV164?	0	Value exceeds ELV165?	0	Value exceeds ELV166?	0	Value exceeds ELV167?	0	Value exceeds ELV168?	0	Value exceeds ELV169?	0	Value exceeds ELV170?	0	Value exceeds ELV171?	0	Value exceeds ELV172?	0	Value exceeds ELV173?	0	Value exceeds ELV174?	0	Value exceeds ELV175?	0	Value exceeds ELV176?	0	Value exceeds ELV177?	0	Value exceeds ELV178?	0	Value exceeds ELV179?	0	Value exceeds ELV180?	0	Value exceeds ELV181?	0	Value exceeds ELV182?	0	Value exceeds ELV183?	0	Value exceeds ELV184?	0	Value exceeds ELV185?	0	Value exceeds ELV186?	0	Value exceeds ELV187?	0	Value exceeds ELV188?	0	Value exceeds ELV189?	0	Value exceeds ELV190?	0	Value exceeds ELV191?	0	Value exceeds ELV192?	0	Value exceeds ELV193?	0	Value exceeds ELV194?	0	Value exceeds ELV195?	0	Value exceeds ELV196?	0	Value exceeds ELV197?	0	Value exceeds ELV198?	0	Value exceeds ELV199?	0	Value exceeds ELV200?	0	Value exceeds ELV201?	0	Value exceeds ELV202?	0	Value exceeds ELV203?	0	Value exceeds ELV204?	0	Value exceeds ELV205?	0	Value exceeds ELV206?	0	Value exceeds ELV207?	0	Value exceeds ELV208?	0	Value exceeds ELV209?	0	Value exceeds ELV210?	0	Value exceeds ELV211?	0	Value exceeds ELV212?	0	Value exceeds ELV213?	0	Value exceeds ELV214?	0	Value exceeds ELV215?	0	Value exceeds ELV216?	0	Value exceeds ELV217?	0	Value exceeds ELV218?	0	Value exceeds ELV219?	0	Value exceeds ELV220?	0	Value exceeds ELV221?	0	Value exceeds ELV222?	0	Value exceeds ELV223?	0	Value exceeds ELV224?	0	Value exceeds ELV225?	0	Value exceeds ELV226?	0	Value exceeds ELV227?	0	Value exceeds ELV228?	0	Value exceeds ELV229?	0	Value exceeds ELV230?	0	Value exceeds ELV231?	0	Value exceeds ELV232?	0	Value exceeds ELV233?	0	Value exceeds ELV234?	0	Value exceeds ELV235?	0	Value exceeds ELV236?	0	Value exceeds ELV237?	0	Value exceeds ELV238?	0	Value exceeds ELV239?	0	Value exceeds ELV240?	0	Value exceeds ELV241?	0	Value exceeds ELV242?	0	Value exceeds ELV243?	0	Value exceeds 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exceeds ELV535?	0	Value exceeds ELV536?	0	Value exceeds ELV537?	0	Value exceeds ELV538?	0	Value exceeds ELV539?	0	Value exceeds ELV540?	0	Value exceeds ELV541?	0	Value exceeds ELV542?	0	Value exceeds ELV543?	0	Value exceeds ELV544?	0	Value exceeds ELV545?	0	Value exceeds ELV546?	0	Value exceeds ELV547?	0	Value exceeds ELV548?	0	Value exceeds ELV549?	0	Value exceeds ELV550?	0	Value exceeds ELV551?	0	Value exceeds ELV552?	0	Value exceeds ELV553?	0	Value exceeds ELV554?	0	Value exceeds ELV555?	0	Value exceeds ELV556?	0	Value exceeds ELV557?	0	Value exceeds ELV558?	0	Value exceeds ELV559?	0	Value exceeds ELV560?	0	Value exceeds ELV561?	0	Value exceeds ELV562?	0	Value exceeds ELV563?	0	Value exceeds ELV564?	0	Value exceeds ELV565?	0	Value exceeds ELV566?	0	Value exceeds ELV567?	0	Value exceeds ELV568?	0	Value exceeds ELV569?	0	Value exceeds ELV570?	0	Value exceeds ELV571?	0	Value exceeds ELV572?	0	Value exceeds ELV573?	0	Value exceeds ELV574?	0	Value exceeds ELV575?	0	Value exceeds ELV576?	0	Value exceeds ELV577?	0	Value exceeds ELV578?	0	Value exceeds ELV579?	0	Value exceeds ELV580?	0	Value exceeds ELV581?	0	Value exceeds ELV582?	0	Value exceeds ELV583?	0	Value exceeds ELV584?	0	Value exceeds ELV585?	0	Value exceeds ELV586?	0	Value exceeds ELV587?	0	Value exceeds ELV588?	0	Value exceeds ELV589?	0	Value exceeds ELV590?	0	Value exceeds ELV591?	0	Value exceeds ELV592?	0	Value exceeds ELV593?	0	Value exceeds ELV594?	0	Value exceeds ELV595?	0	Value exceeds ELV596?	0	Value exceeds ELV597?	0	Value exceeds ELV598?	0	Value exceeds ELV599?	0	Value exceeds ELV600?	0	Value exceeds ELV601?	0	Value exceeds ELV602?	0	Value exceeds ELV603?	0	Value exceeds ELV604?	0	Value exceeds ELV605?	0	Value exceeds ELV606?	0	Value exceeds ELV607?	0	Value exceeds ELV608?	0	Value exceeds ELV609?	0	Value exceeds ELV610?	0	Value exceeds ELV611?	0	Value exceeds ELV612?	0	Value exceeds ELV613?	0	Value exceeds ELV614?	0	Value exceeds ELV615?	0	Value exceeds ELV616?	0	Value exceeds ELV617?	0	Value exceeds ELV618?	0	Value exceeds ELV619?	0	Value exceeds ELV620?	0	Value exceeds ELV621?	0	Value exceeds ELV622?	0	Value exceeds ELV623?	0	Value exceeds ELV624?	0	Value exceeds ELV625?	0	Value exceeds ELV626?	0	Value exceeds ELV627?	0	Value exceeds ELV628?	0	Value exceeds ELV629?	0	Value exceeds ELV630?	0	Value exceeds ELV631?	0	Value exceeds ELV632?	0	Value exceeds ELV633?	0	Value exceeds ELV634?	0	Value exceeds ELV635?	0	Value exceeds ELV636?	0	Value exceeds ELV637?	0	Value exceeds ELV638?	0	Value exceeds ELV639?	0	Value exceeds ELV640?	0	Value exceeds ELV641?	0	Value exceeds ELV642?	0	Value exceeds ELV643?	0	Value exceeds ELV644?	0	Value exceeds ELV645?	0	Value exceeds ELV646?	0	Value exceeds ELV647?	0	Value exceeds ELV648?	0	Value exceeds ELV649?	0	Value exceeds ELV650?	0	Value exceeds ELV651?	0	Value exceeds ELV652?	0	Value exceeds ELV653?	0	Value exceeds ELV654?	0	Value exceeds ELV655?	0	Value exceeds ELV656?	0	Value exceeds ELV657?	0	Value exceeds ELV658?	0	Value exceeds ELV659?	0	Value exceeds ELV660?	0	Value exceeds ELV661?	0	Value exceeds ELV662?	0	Value exceeds ELV663?	0	Value exceeds ELV664?	0	Value exceeds ELV665?	0	Value exceeds ELV666?	0	Value exceeds ELV667?	0	Value exceeds ELV668?	0	Value exceeds ELV669?	0	Value exceeds ELV670?	0	Value exceeds ELV671?	0	Value exceeds ELV672?	0	Value exceeds ELV673?	0	Value exceeds ELV674?	0	Value exceeds ELV675?	0	Value exceeds ELV676?	0	Value exceeds ELV677?	0	Value exceeds ELV678?	0	Value exceeds ELV679?	0	Value exceeds ELV680?	0	Value exceeds ELV681?	0	Value exceeds ELV682?	0</

6/8/13

Date

[Signature]

Signed
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

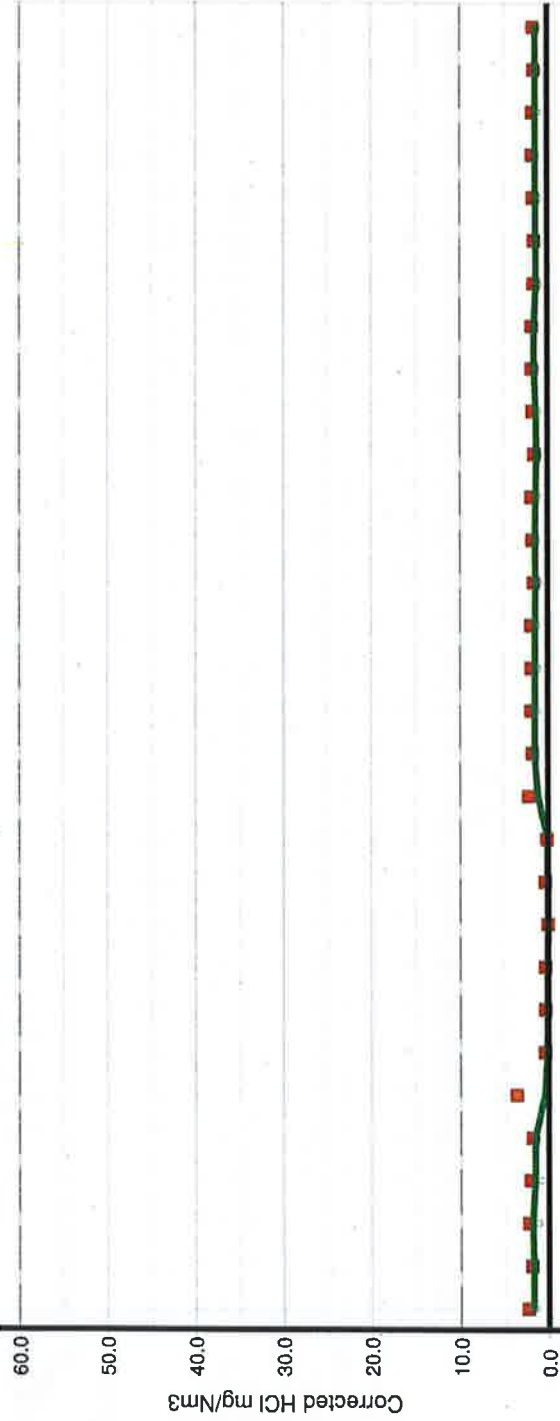
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of July 2013

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	3.6	2.3	1.9	2.2	2.0	1.8	3.6	0.3	0.3	0.3	0.0	0.3	0.1	2.2	1.8	1.9	1.8	1.9	1.6	1.8	1.8	1.5	1.7	1.8	1.8	1.6	1.5	1.7	1.8	1.7	1.6	1.7	
	Monthly mean	1.1	1.7	1.7	1.8	1.6	1.5	0.4	0.2	0.1	0.1	0.0	0.1	0.1	1.1	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.3	1.5	1.5	1.3	1.3	1.4	1.4	1.3	1.3	1.4		
	Monthly minimum	0.0	1.5	1.6	1.1	0.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.2	1.2	1.2	1.0	1.2	1.1	1.0	1.1	1.3	1.3	1.0	1.1	0.9	1.2	1.1	1.1	1.2	
	Total invalid results	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
24 hour Average	Monthly maximum	1.8	1.7	1.8	1.6	1.5	0.4	0.2	0.1	0.1	0.0	0.1	0.1	1.1	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.3	1.5	1.5	1.3	1.3	1.4	1.4	1.3	1.4	1.3	1.3	1.4	
	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	
	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
	Value exceeds ELV1?																																	

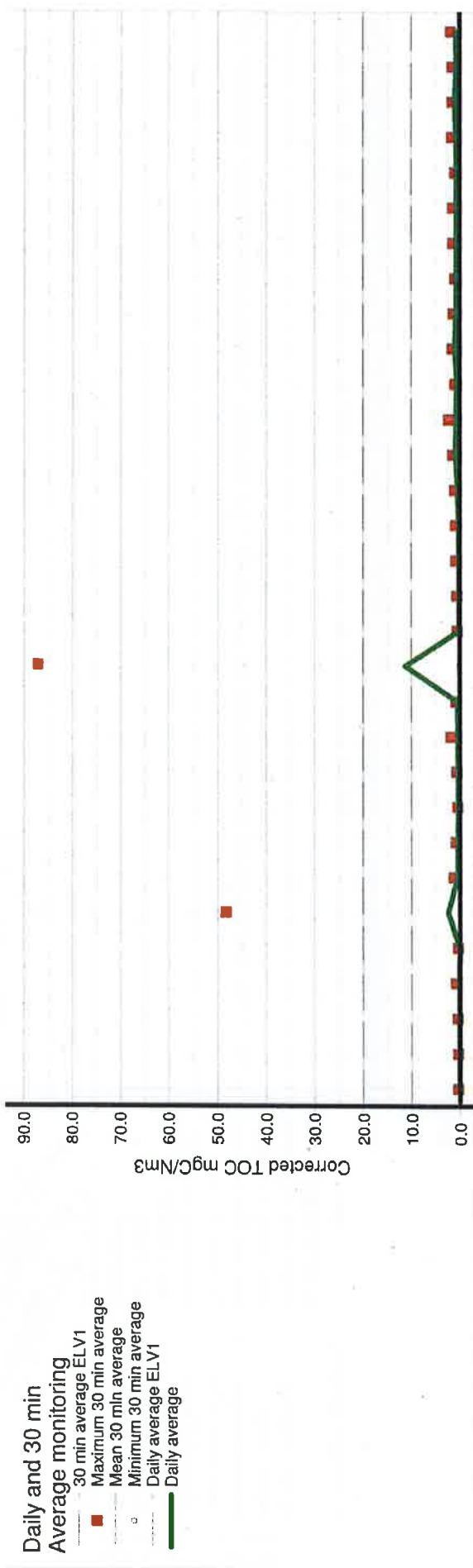
6/8/13

Signed (Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of July 2013



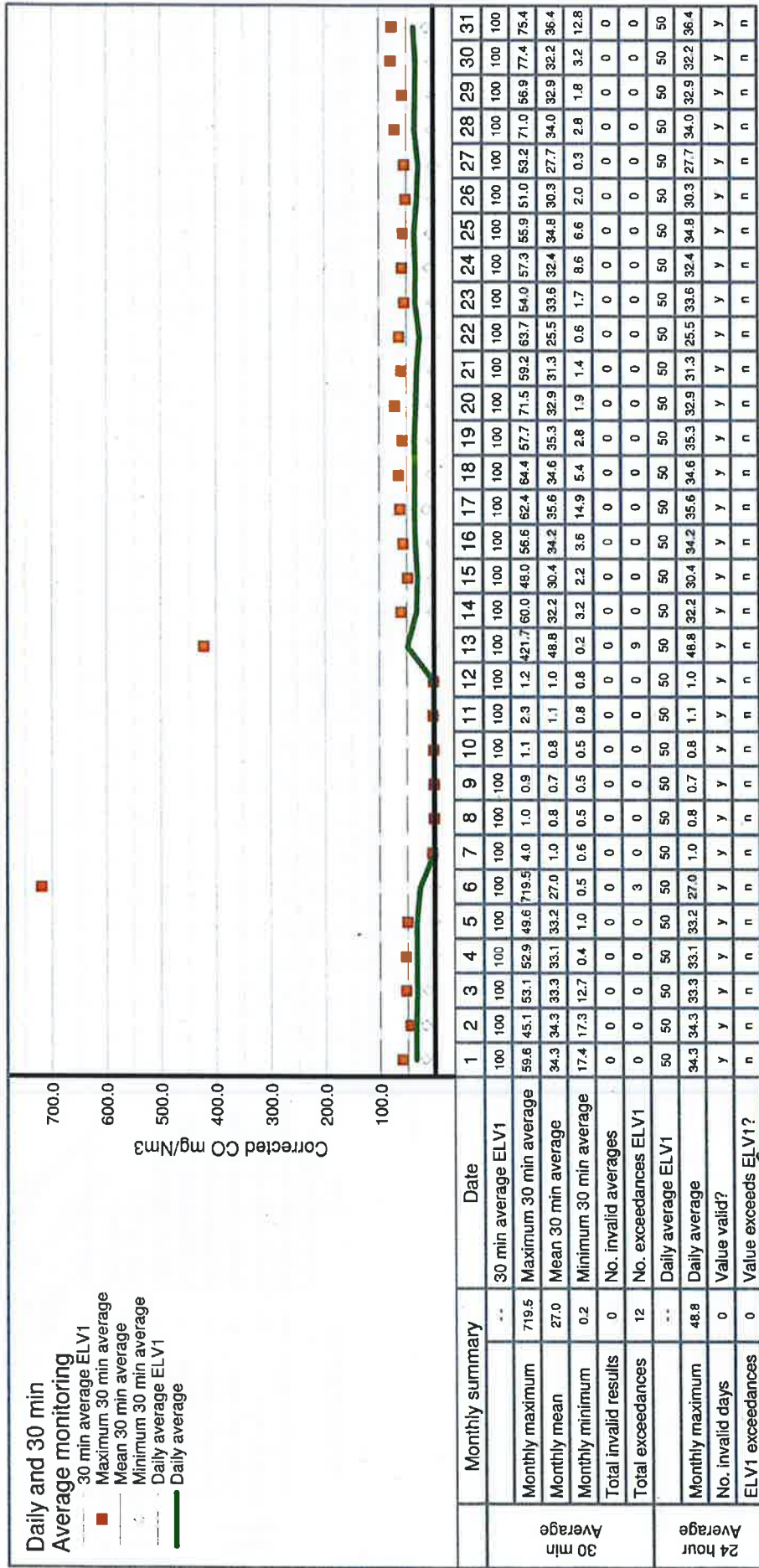
Monthly summary		Date																															
30 min Average	--	30 min average ELV1																															
	87.1	Monthly maximum	0.4	0.3	0.4	0.8	0.3	48.3	1.2	0.8	0.4	0.6	1.8	0.7	87.1	0.5	0.5	0.7	0.8	1.0	1.4	2.3	0.9	1.5	1.2	1.0	1.3	1.4	1.0	1.6	1.5	1.5	1.8
	0.9	Monthly mean	0.1	0.1	0.1	0.1	0.0	2.4	0.4	0.4	0.3	0.3	0.4	0.5	11.3	0.1	0.1	0.2	0.2	0.5	0.8	0.7	0.6	1.0	0.8	0.7	0.7	0.6	0.6	0.7	0.9	0.7	0.8
	0.0	Monthly minimum	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.4	0.7	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5
	0	Total invalid results	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	11	Total exceedances	0	0	0	0	0	2	0	0	0	0	0	0	9	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
	11.3	Daily average	0.1	0.1	0.1	0.1	0.0	2.4	0.4	0.4	0.3	0.3	0.4	0.5	11.3	0.1	0.1	0.2	0.2	0.5	0.8	0.7	0.6	1.0	0.8	0.7	0.7	0.6	0.6	0.7	0.9	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
	1	ELV1 exceedances	n	n	n	n	n	n	n	n	n	n	n	n	y	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

Signed  Date 6/8/13
(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 2013

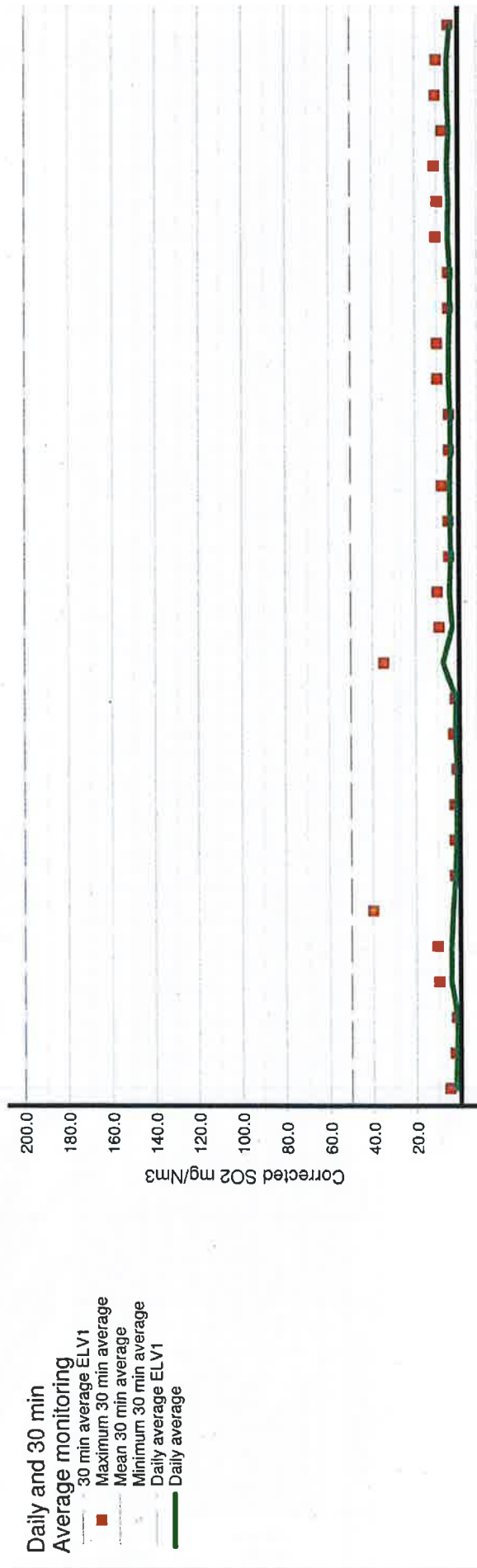


Signed Date: 6/8/13
(Authorised to sign as representative of Operator)

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 2013



Monthly summary		Date																																
Average 30 min	--	30 min average ELV1																																
	40.0	Monthly maximum	4.8	2.4	1.8	9.7	10.4	40.0	2.4	2.3	2.3	1.3	2.8	2.0	34.7	9.2	10.0	4.6	4.8	7.9	4.5	4.4	9.7	9.9	4.6	4.7	10.4	9.6	10.9	7.4	10.4	9.9	4.4	
	3.5	Monthly mean	2.1	1.6	1.5	4.2	4.0	3.4	2.0	1.4	1.3	1.1	1.7	1.5	7.5	3.1	4.4	3.7	4.0	4.2	3.6	3.8	4.5	4.3	3.8	3.6	4.7	4.4	4.9	4.2	4.8	5.0	3.7	
	0.2	Monthly minimum	1.1	1.3	1.1	1.1	1.2	0.2	1.3	0.6	0.4	0.9	0.9	0.8	0.5	2.2	1.6	1.6	1.6	2.8	1.3	1.1	3.2	1.3	1.1	1.2	2.9	3.5	2.5	1.6	2.0	3.2	1.2	
	0	Total invalid results	No. invalid averages																															
Average 24 hour	0	Total exceedances		No. exceedances ELV1																														
	--	Daily average ELV1		Daily average ELV1																														
	7.5	Daily average		Daily average																														
	0	No. invalid days		Value valid?																														
	0	FI V1 exceedances		Value exceeds ELV1?																														

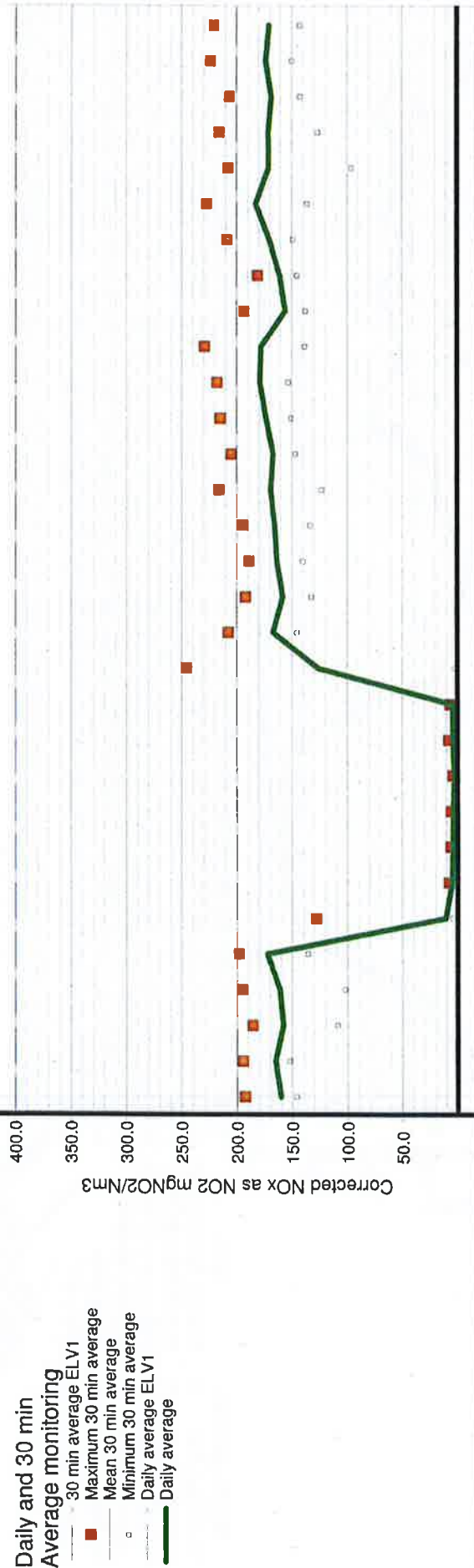
Signed  Date 6/8/13

(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 / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of July 2013



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
Monthly maximum	245.1	Maximum 30 min average	192.7	194.5	185.6	195.0	197.8	128.5	7.7	6.0	5.8	3.9	7.8	6.8	245.1	207.8	192.0	188.6	194.6	215.8	205.2	215.0	218.0	229.3	193.3	181.0	208.7	227.1	207.6	215.9	206.6	223.7	220.6
Monthly mean	129.8	Mean 30 min average	160.5	165.1	158.1	161.2	172.3	10.6	4.9	4.3	3.8	2.9	4.3	4.5	126.1	167.2	158.3	163.6	165.6	169.3	167.0	173.3	178.6	177.7	156.0	161.2	170.3	182.6	171.1	171.2	168.5	173.5	170.6
Monthly minimum	1.9	Minimum 30 min average	146.0	152.1	108.8	102.1	135.5	4.5	2.2	2.5	1.9	2.0	2.0	2.2	2.1	145.6	132.6	140.3	133.4	123.3	146.8	150.8	153.3	138.6	137.9	145.5	149.1	136.6	96.2	126.6	142.5	150.1	142.8
Total invalid results	0	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	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
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
	182.6	Daily average	160.5	165.1	158.1	161.2	172.3	10.6	4.9	4.3	3.8	2.9	4.3	4.5	126.1	167.2	158.3	163.6	165.6	169.3	167.0	173.3	178.6	177.7	156.0	161.2	170.3	182.6	171.1	171.2	168.5	173.5	170.6
	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

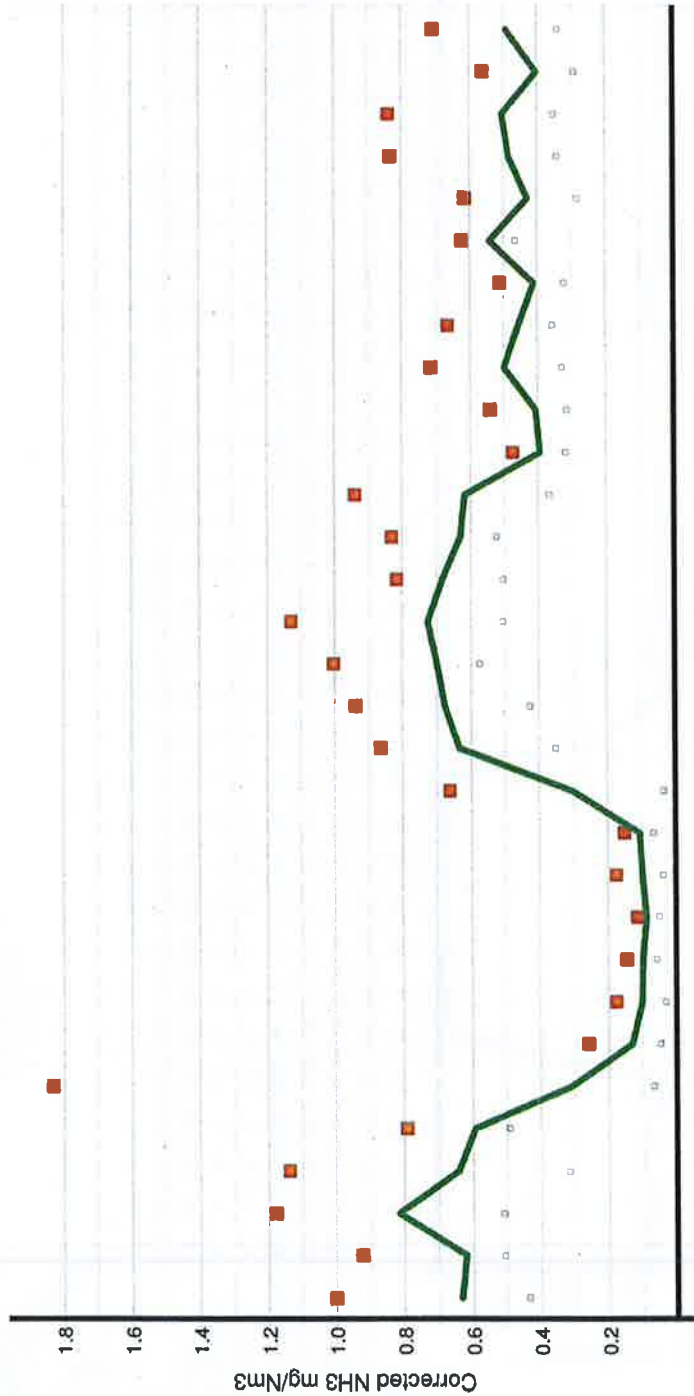
Signed  Date: 6/8/13
(Authorised to sign as representative of Operator)

Unit Reference Number: PP3936SQ
Location: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A8 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of July 2013

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
Monthly maximum	1.8	Maximum 30 min average		1.0	0.9	1.2	1.1	0.8	1.8	0.3	0.2	0.1	0.1	0.2	0.1	0.7	0.9	0.9	1.0	1.1	0.8	0.8	0.9	0.5	0.5	0.7	0.7	0.5	0.6	0.6	0.8	0.8	0.6	0.7
Monthly mean	0.5	Mean 30 min average		0.6	0.8	0.8	0.6	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5
Monthly minimum	0.0	Minimum 30 min average		0.4	0.5	0.5	0.3	0.5	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.4	0.4	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.5	0.3	0.3	0.4	0.3	0.3
Total invalid results	0	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	0
Monthly maximum	0.8	Daily average		0.6	0.6	0.8	0.6	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.4
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

Date: 6/8/13

Signed: [Signature]
(Authorised to sign as representative of Operator)