



Permit Number: BT4885IT
UK Ltd

Operator: UPM-Kymmene

Facility: Shotton Paper Mill

Form Number: A9

Release Point: A13, A15 & A18 (when in use) Time/Date of sampling: Not in operation, not sampled

Discontinuous Measurement for the 3 months to 30th September 2013

Discontinuous Measurement Form					Fuel used during sampling period
Pollutant & release point	ELV (mg/m ³)	Measured value (mg/m ³)	Sampling method	Unit load (MW)	
NOx - A13: Boiler Stack 1	450				Not in operation, not sampled
NOx - A15: Boiler Stack 3	150				Not in operation, not sampled
NOx - A18: Boiler Stack 6	150				Not in operation, not sampled

Please note: the measured value should be quoted at the appropriate reference conditions for the type of equipment being subject to emissions monitoring – see Schedule 7.

Signed 

Date 08/11/2013

(Authorised to sign as representative of Operator)

HUNTING RETURNS N. WAL-S

CHECKED & AUTHORISATION

TRACONS

CAROL PEARCE/RESEARCH

WAL-S 08/11/13

INITIALS DATE

 26/11/13

 11-11-13

 26/11/13

 EDen.

Permit Number: BT4885IT
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Operator: UPM-Kymmene

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Form Number: Performance 2

Reporting of other performance indicators for the period 01/07/2013 to 30/09/2013

Parameter	Units
BOD/ADT	0.109 Kg/ADT
Suspended Solids/ADT	0.099 Kg/ADT
Ammoniacal Nitrogen/ADT	0.003 Kg/ADT
Total Phosphorus/ADT	?
NOx/ADT	7.565x 10-4 Tonnes/ADT
CO ₂ /ADT	0.049 Tonnes/ADT
Total MRF materials accepted for sorting	49374 Tonnes
Total MRF facility throughput	50424 Tonnes
Total MRF material sent for recycling off site	45292 Tonnes
Total MRF material utilised on site for newsprint production	11190 Tonnes
Total MRF material sent off site for disposal	5151 Tonnes

Operator's comments :

Signed 

Date 25 October 2013

Permit Number : BT48851T

Facility : Shotton Paper Mill

Operator : UPM-Kymmene UK Ltd

Form Number : Residue 1

Reporting of residue quality for the period from1st July.....to30th September

Ash Composition (TOC/LOI)

	LOI (%)	% Carbon (TOC) ^{w/w}
Bottom Ash	*1.0	*

*At least one of LOI or TOC to be reported.

Ash Composition (Metals, Dioxins, etc.)

	Cd mg/ kg	Ti mg/ kg	Hg mg/ kg	Pb mg/ kg	Cr mg/ kg	Cu mg/k g	Mn mg/ kg	Ni mg/ kg	As mg/ kg	Co mg /kg	V mg/ kg	Zn Mg/k g	DIOXI N I-TEQ ng/kg	DIOXIN		
														WHO-TEQ ng/kg		
														Humans/ mammals	Birds	Fish
Bottom Ash	0.17	0.07	0.1	20	370	2000	400	220	50	8.8	15	660	0.83	1	1	1
APC Residues	3.4	0.1	0.2	370	75	500	420	46	20	12	18	840	7.0	7.3	16	7.5

Signed  Date 7th November 2013
(Authorised to sign as representative of UPM-Kymmene UK Ltd)

Permit Reference Number : BT48851T

Operator : UPM-Kymmene UK Ltd

Facility : Shotton Paper Mill

Form Number : S1

Reporting of Emissions to Sewer for the period from1st July.....to30th September

Emission Point	Substance / Parameter	Emission Limit Value	Result ⁽¹⁾	Test Method	Sample Date and Times ⁽²⁾	Uncertainty ⁽³⁾
E1	Volumetric Flow	300m ³ /day 24 hour period beginning 00:01	146.4	BS3680		
E1	pH	6(min) Instantaneous	1.4	BS 1647-2:1984		
E1	pH	9(max) Instantaneous	11.7	BS 1647-2:1984		
E1	Total suspended solids as defined by Directive 91/271/EEC	30mg/l for 95% of all measured values of periodic or flow proportional samples taken over one year.	?	BS EN 872		
E1	Total suspended solids as defined by Directive 91/271/EEC	45mg/l periodic sample ¹	261	BS EN 872	07/08/13 13:00	
E1	Mercury and its compounds, expressed as mercury (Hg)	0.03 mg/l 24-hour flow proportional sample	0.0006	BS EN 1483	13/09/13 10:00	
E1	Cadmium and its compounds, expressed as cadmium (Cd)	0.05 mg/l 24-hour flow proportional sample	0.001	BS 6068-2.89	13/09/13 10:00	
E1	Thallium and its compounds, expressed as thallium (Tl)	0.05 mg/l 24-hour flow proportional sample	0.001	BS 6068-2.89	13/09/13 10:00	
E1	Arsenic and its compounds, expressed as arsenic (As)	0.15 mg/l 24-hour flow proportional sample	0.018	BS 6068-2.60	01/07/13 10:00	
E1	Lead and its compounds, expressed as lead (Pb)	0.2 mg/l 24-hour flow proportional sample	0.008	BS 6068-2.60	01/07/13 10:00	
E1	Chromium and its compounds, expressed as chromium (Cr)	0.5 mg/l 24-hour flow proportional sample	0.041	BS 6068-2.60	13/09/13 10:00	
E1	Copper and its compounds, expressed as copper (Cu)	0.5 mg/l 24-hour flow proportional sample	0.026	BS 6068-2.60	01/07/13 10:00	
E1	Nickel and its compounds, expressed as nickel (Ni)	0.5 mg/l 24-hour flow proportional sample	0.022	BS 6068-2.60	13/09/13 10:00	
E1	Zinc and its compounds, expressed as Zinc (Zn)	1.5 mg/l 24-hour flow proportional sample	0.028	BS 6068-2.60	13/09/13 10:00	
E1	Dioxins / Furans (I-TEQ)	0.3 ng/l – at least one measurement every six months		BS ISO 18703		

Permit Number: BT48851T

Operator: UPM-Kymmene UK Ltd

Facility: Shotton Paper Mill

Form Number: W2

Reporting of emissions to water (other than to sewer) and land for the period from 09/07/2013 to 31/10/2013

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]				Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
			Min	Mean	Max	Total			
W1	Temperature degrees Celsius (when a discharge limit of 28°C is permitted)	28°C		26.64 26.22 26.07 25.65 26.48 26.53 25.09	27.9 26.37 26.92 26.81 26.81 26.8 25.38		On-line	09/07 12:00 - 14:25 09/07 23:55 - 01:00 10/07 12:20 - 16:20 11/07 13:15 - 13:45 12/07 13:30 - 17:30 13/07 14:05 - 18:05 15/07 15:35 - 19:35	-
W1	Flow m ³ /tide (when a discharge limit of 28°C is permitted)	11,000 m ³ /tide				5652 2097 10,080 1232 9782 9782 9789	On line	09/07 12:00 - 14:25 09/07 23:55 - 01:00 10/07 12:20 - 16:20 11/07 13:15 - 13:45 12/07 13:30 - 17:30 13/07 14:05 - 18:05 15/07 15:35 - 19:35	
W1	Dissolved Oxygen mg/l (when a discharge limit of 28°C is permitted)	-		6.37 6.74 4.87 4.55 3.50 3.48 3.57			On line	09/07 12:00 - 14:25 09/07 23:55 - 01:00 10/07 12:20 - 16:20 11/07 13:15 - 13:45 12/07 13:30 - 17:30 13/07 14:05 - 18:05 15/07 15:35 - 19:35	

Notes:

- The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
- Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.