



Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

27th January 2014

Attn: Alison Soper

RE: SHOTTON WORKS PERMIT; Q4 RETURNS OCT-DEC 2014

Please find attached Quarter 4 returns for our site permit BR7321, for the period October – December 2013.

Form W1, Reporting of emissions to water (other than to sewer)

Yours sincerely

S McKenna
Environment Officer

MONITORING RETURNS N. WAL

	INITIALS	DATE
CHECKED Vs AUTHORISATION	AS	29/1/14
TRACKING	JB	28.1.14
OK FOR PUBLIC REGISTER	AS	29/1/14
TESTING REPORTS (if any)	JB	EDRM

TATA STEEL

Colors

Shotton Works Deeside Flintshire CH5 2NH

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Tata Steel Uk Limited Registered Office Address 30 Millbank London W1P 4WY Registered in Country No. 2280000



RETURNING RETURNS IN WALL

WALLS DATE

RECEIVED IN WALL

RECEIVED

RECEIVED IN WALL

RECEIVED IN WALL

RECEIVED

77 JUN 2014

Permit Reference Number: BR7321

Operator: Tata Steel UK Limited

Installation: Tata Steel Colors Shotton Works

Form Number: W1 (Page 1 of 3)

Reporting of Emissions to Water (other than to Sewer) for the period from29/09/13.....to....31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W1	Flow	15,000 m ³ /day	Mean	1936	Magnetic flow meter	100%	UKAS Lab	3.7%
			Max	2948	Magnetic flow meter		UKAS Lab	3.7%
	pH	5 - 9	Min	7.5	Glass electrode laboratory pH meter	8am Every morning	UKAS Lab	+/- 0.12
			Max	7.9			UKAS Lab	
	Suspended solids	100 mg/l	Mean	7.4	Gravimetric /Filtering/Balance	8am Every morning	UKAS Lab	+/- 2.1mg/l
			Max	32			UKAS Lab	
	Chemical Oxygen Demand	200 mg/l	Mean	28.6	Colorimetric - Hach Spectrophotometer	8am Every morning	UKAS Lab	+/- 1.2mg/l
			Max	62			UKAS Lab	
	Iron	10 mg/l	Mean	0.47	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max	0.9			UKAS Lab	

[1] 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.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) - {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31/01/14.....

Permit Reference Number: BR7321

Operator: Tata Steel UK Limited

Installation: Tata Steel Colors Shotton Works

Form Number: W1 (Page 2 of 3)

Reporting of Emissions to Water (other than to Sewer) for the period from ...29/09/13....to....31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W1	Chromium	0.3 mg/l	Mean 0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max 0.1			UKAS Lab	
	Mercury	10 µg/l	0.23	Laboratory ICP	09/12/13	UKAS Lab	+/- 0.1 µg/l
	Nickel	0.6 mg/l	Mean 0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max 0.1			UKAS Lab	
	Zinc	0.8 mg/l	Mean 0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max 0.1			UKAS Lab	
	Ammoniacal Nitrogen (mg/l)		Mean 2.32	Colorimetric - Hach Spectrophotometer	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max 3.42			UKAS Lab	

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Signed S. McKenna
(authorised to sign as representative of the Operator)
Permit Reference Number: BR7321

Date.....31/01/14.....

Operator: Tata Steel UK Limited

Reporting of Emissions to Water (other than to Sewer) for the period from ...29/09/13.....to....31/12/13

Emission Point	Substance / Parameter	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
		Min	Max				
Effluent Plant Discharge A41	pH		7.3	Glass electrode laboratory pH meter	8am Every morning	UKAS Lab	+/- 0.12
			9		8am Every morning	UKAS Lab	
	Iron (mg/l)	Mean	0.25	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		Max	0.6		8am Every morning	UKAS Lab	
	Mercury (µg/l)		0.26	Laboratory ICP	09/12/13	UKAS Lab	+/- 0.1µg/l
	Chromium (mg/l)	Mean	0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		Max	0.1		8am Every morning	UKAS Lab	
	Nickel (mg/l)	Mean	0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		Max	0.1		8am Every morning	UKAS Lab	
	Zinc (mg/l)	Mean	0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		Max	0.2		8am Every morning	UKAS Lab	

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Signed S. McKenna Date.....31/01/14.....
(authorised to sign as representative of the Operator)

