

Releases to Controlled Waters

Release summary for the month July-16

Operator: Tata Steel UK Ltd Release Point: W1 (LSO)
Location: Port Talbot Permit: BL7108

	S.Solids	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	A+N+N	Iron	Lead	Zinc	Nickel	Chromium	Oil	Date	Discharge	Discharge
	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)		Flow (m3/hr)	Flow (m3)
Week 1	33.7	29.0	0.0	0.0	1.5	0.000	0.000	0.060	8.5	1.5	0.0	0.7	0.01	0.00	3.7	01-Jul-16	3241.8	77803.7
																02-Jul-16	4036.0	96865.1
																03-Jul-16	4496.0	107903.3
																04-Jul-16	5842.8	140226.2
																05-Jul-16	5343.9	128252.6
																06-Jul-16	4913.9	117933.2
Week 2	29.7	36.0	0.0	0.0	1.2	0.000	0.010	0.010	9.9	1.3	0.0	0.9	0.06	0.00	1.9	07-Jul-16	4569.3	109663.8
																08-Jul-16	5110.2	122644.3
																09-Jul-16	5507.0	132168.7
																10-Jul-16	5170.6	124093.3
																11-Jul-16	5928.7	142289.7
																12-Jul-16	5996.7	143920.6
Week 3	32.3	37.0	0.0	0.0	1.1	0.000	0.037	0.030	13.7	0.7	0.0	0.5	0.09	0.00	2.7	13-Jul-16	3611.6	86679.2
																14-Jul-16	4034.7	96833.5
																15-Jul-16	3322.7	79744.8
																16-Jul-16	2993.5	71845.2
																17-Jul-16	3435.3	82446.9
																18-Jul-16	4208.0	100992.2
Week 4	30.0	42.0	0.0	0.0	0.1	0.000	0.050	0.000	15.5	1.0	0.0	0.3	0.04	0.00	3.5	19-Jul-16	3414.2	81939.9
																20-Jul-16	4510.3	108247.3
																21-Jul-16	6011.5	144277.2
																22-Jul-16	6209.2	149021.3
																23-Jul-16	5604.7	134512.3
																24-Jul-16	3512.9	84308.7
Week 5																25-Jul-16	2740.0	65759.1
																26-Jul-16	2882.2	69173.2
																27-Jul-16	1932.8	46388.0
																28-Jul-16	669.4	16066.3
																29-Jul-16	1370.2	32883.7
																30-Jul-16	3754.2	90101.8
Mean																31-Jul-16	3929.6	94310.73
Weekly ave. limit	20	220	20	0.1	4	0.1	0.1	1	50	5	0.5	2.0	0.5	0.5	5.0		4138.8 6000	99332.1 -
Max																		
Daily limit																		

* Suspended solids reported to the NRW

Signed on behalf of the Operator

Dated 8-Nov-2016



Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

August-16

Operator: Tata Steel UK Ltd

Release Point: W1 (LSO)

Location: Port Talbot

Permit: BL7108

[illegible]

* Suspended solids reported to the NRW

Signed on behalf of the Operator

Dated 8-Nov-2016

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month September-16

Operator: Tata Steel UK Ltd Release Point: W1 (LSO)
Location: Port Talbot Permit: BL7108

	S.Solids	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	A+N+N	Iron	Lead	Zinc	Nickel	Chromium	Oil	Date	Discharge	Discharge
	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)		Conc. (m3/hr)	Conc. (m3)
Week 1	34.00	32.00	0.00	0.00	1.60	0.060	0.000	0.210	19.40	1.90	0.07	0.61	0.030	0.000	3.53	01-Sep-16	2943	70639
																02-Sep-16	3643	87424
																03-Sep-16	3049	73167
																04-Sep-16	2965	71168
																05-Sep-16	4493	107825
																06-Sep-16	4210	101032
Week 2	44.60	3.00	0.00	0.00	2.20	0.000	0.000	0.100	16.30	2.30	0.03	0.77	0.090	0.000	1.30	07-Sep-16	3554	85294
																08-Sep-16	4350	104411
																09-Sep-16	2340	56153
																10-Sep-16	2365	56766
																11-Sep-16	3539	84946
																12-Sep-16	3395	81472
Week 3	36.00	30.00	0.00	0.00	0.63	0.010	0.000	0.000	24.50	1.60	0.03	0.59	0.030	0.000	4.10	13-Sep-16	3880	93110
																14-Sep-16	3844	92256
																15-Sep-16	3618	86831
																16-Sep-16	4127	99041
																17-Sep-16	3270	78486
																18-Sep-16	3752	90041
Week 4	42.30	18.00	0.00	0.00	0.79	0.000	0.000	0.070	18.40	1.50	0.03	0.81	0.100	0.000	1.71	19-Sep-16	3532	84777
																20-Sep-16	3271	78514
																21-Sep-16	2057	49377
																22-Sep-16	2606	62551
																23-Sep-16	2298	55162
																24-Sep-16	1898	45562
Week 5	37.40	0.00	0.00	0.00	0.56	0.020	0.000	0.160	0.00	2.20	0.07	0.50	0.030	0.010	1.84	25-Sep-16	2274	54573
																26-Sep-16	4515	108351
																27-Sep-16	4273	102561
																28-Sep-16	4510	108246
																29-Sep-16	2893	69429
																30-Sep-16	1890	45367
Mean																		
Weekly ave. limit	20	220	20	0.1	4	0.1	0.1	1	50	5	0.5	2.0	0.5	0.5	5.0		3311.8 6000	79484.3 -
Max Daily limit																		

* Suspended solids reported to the NRW

Signed on behalf of the Operator

Dated 8-Nov-2016

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter Jul to Sep-16

Operator: Tata Steel UK Ltd

Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Phenol	Max load (kg/day)	43.9	115.3	52.2	350
	Mean load (kg/day)	3.4	17.5	4.5	
	Max conc. (mg/l)	0.4	1.2	0.5	
	Mean conc. (mg/l)	0.0	0.2	0.1	2
Soluble chromium	Max load (kg/day)	0.0	10.6	6.3	
	Mean load (kg/day)	0.0	1.1	0.4	
	Load (kg/mth)	0.00	33.35	10.81	200
	Max conc. (mg/l)	0.00	0.10	0.10	
	Mean conc. (mg/l)	0.00	0.02	0.01	0.2
Soluble lead	Max load (kg/day)	9.69	10.62	10.78	
	Mean load (kg/day)	0.31	0.79	1.09	
	Load (kg/mth)	9.7	24.4	32.7	300
	Max conc. (mg/l)	0.10	0.10	0.10	
	Mean conc. (mg/l)	0.00	0.02	0.02	0.3
Soluble iron	Max load (kg/day)	99.6	23.3	21.7	
	Mean load (kg/day)	7.2	4.7	3.5	
	Max conc. (mg/l)	0.7	0.2	0.2	
	Mean conc. (mg/l)	0.1	0.1	0.0	
Free cyanide	Max load (kg/day)	40.4	15.0	16.4	45
	Mean load (kg/day)	1.3	3.0	1.7	
	Max conc. (mg/l)	0.4	0.2	0.2	
	Mean conc. (mg/l)	0.01	0.04	0.02	0.2
PAH's	Load (kg/mth)	77.5	50.5	21.2	250
	Concentration (mg/l)	0.002	0.005	0.005	1

Signed on behalf of the Operator



Dated 8-Nov-2016

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter Jul to Sep-16

Operator: Tata Steel UK Ltd

Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Dock Return	Max. monthly conc. of return (mg/l)	22.0	2.4	2.2	20 above background
Suspended solids	Max daily back-ground conc. (mg/l)	298.0	40.0	34.0	
	Mean background conc. (mg/l)	22.3	19.2	17.9	
Dock Flow	Max daily flowrate (m3/day)	47695	85846	81980	350000
	Mean daily flowrate (m3/day)	7167	69296	71177	
	Max flowrate (m3/hour)	2101	3921	3712	16000
	Mean flowrate (m3/hour)	353	2892	2968	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	22152	22152	22152	
	Mean daily abstraction rate (m3/day)	22152	22152	22152	
Dock Return Temperature	Max daily discharge temperature (C)	30	30	30	36
	Mean daily discharge temperature (C)	25	28	28	

Signed on behalf of the Operator



Dated 8-Nov-2016

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter Jul to Sep

Operator: Tata Steel UK Ltd

Release Point: W3 (ABO)

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Suspended solids	Maximum daily* concentration (mg/)	41	127	213	200
	Mean daily concentration (mg/)	85	57	28	
Oil and grease	Maximum daily concentration (mg/)	5	5	4	20
	Mean daily concentration (mg/)	2	2	1	
Number of days of discharge in the month		0	0	1	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator

..........

Dated 8-Nov-2016

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter Jul to Sep

Operator: Tata Steel UK Ltd

Release Point: W4

Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
pH	Max daily	8.2	8.7	7.5	
	Mean daily	8.2	8.7	7.5	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	48.0	96.0	267.0	
	Mean daily conc.	48.0	96.0	267.0	
Total iron (mg/l)	Max daily conc.	0.1	10.0	0.2	
	Mean daily conc.	0.1	10.0	0.2	
Soluble iron (mg/l)	Max daily conc.	0.1	0.1	0.1	
	Mean daily conc.	0.1	0.1	0.1	
Oil and grease (mg/l)	Max daily conc.	0.1	0.1	0.1	
	Mean daily conc.	5.0	0.3	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		0	1	1	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
22-Jul-16	48	8.30	0.05	0.05	5.00
12-Aug-16	96	8.70	9.99	0.05	0.25
16-Sep-16	267	7.50	0.21	0.05	0.05

Signed on behalf of the Operator



Dated

8-Nov-2016

Form I&S W4