

Releases to Controlled Waters

Release summary for the month April-18

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)		(m3/hr)	(m3)
Week 1	58.9	138.0		0.0	0.9	0.00		0.00	62	2.8	0.4	1.2	0.0	0.0	3.0	01-Apr-18	7721.6	185317.8
																02-Apr-18	8217.4	197218.7
																03-Apr-18	8379.6	201111.5
																04-Apr-18	3477.0	83447.4
																05-Apr-18	4067.9	97630.0
																06-Apr-18	4237.0	101689.2
Week 2	64.6	33.0		0.0	1.8	0.00		0.00	42	1.2	0.0	0.7	0.0	0.0	2.4	07-Apr-18	4052.8	97267.4
																08-Apr-18	3955.3	94927.6
																09-Apr-18	3328.4	79881.8
																10-Apr-18	3160.6	75853.5
																11-Apr-18	3603.4	86480.6
																12-Apr-18	3539.7	84952.9
Week 3	61.1	30.0		0.0	0.7	0.00		0.01	16	1.4	0.0	0.6	0.0	0.0	1.1	13-Apr-18	3575.4	85808.8
																14-Apr-18	3549.4	85186.5
																15-Apr-18	3334.8	80035.1
																16-Apr-18	3367.7	80823.7
																17-Apr-18	3331.6	79958.4
																18-Apr-18	4159.1	99817.7
Week 4	48.0	30.0		0.0	0.0	0.00		0.00	37	1.6	0.0	2.9	0.0	0.0	1.2	19-Apr-18	3955.2	94924.6
																20-Apr-18	3635.6	87253.8
																21-Apr-18	3696.7	88721.3
																22-Apr-18	4210.0	101039.4
																23-Apr-18	3856.2	92549.0
																24-Apr-18	4901.6	117639.2
																25-Apr-18	5299.3	127184.2
																26-Apr-18	6032.7	144784.8
																27-Apr-18	6340.9	152182.6
																28-Apr-18	2913.7	69928.9
																29-Apr-18	4098.8	98372.0
																30-Apr-18	5861.7	140681.0
Mean Weekly ave. limit																		
	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0		4462.0 6000	107089.0 -

* Suspended solids breaches reported on a monthly basis
**Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_18_60A

Signed on behalf of the Operator

Dated 23-Jul-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month June-18

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)		(m3/hr)	(m3)
Week 1	34.9	0		0.0	0.8	0	No Data	0.00	No Date	3.3	0.1	1.01	0.1	0.0	1.5	01-Jun-18	2773.6	66567.5
																02-Jun-18	2406.2	57749.2
																03-Jun-18	3144.6	75470.8
																04-Jun-18	2577.3	61856.1
																05-Jun-18	3084.0	74015.8
																06-Jun-18	3622.9	86950.2
Week 2	34.3	0.0		0.0	0.6	0.00	No Data	0.00	No Date	1.2	0.0	0.2	0.0	0.0	0.3	07-Jun-18	3248.7	77967.8
																08-Jun-18	3081.0	73943.3
																09-Jun-18	3377.7	81065.3
																10-Jun-18	4947.2	118734.0
																11-Jun-18	3400.2	81603.9
																12-Jun-18	3379.3	81102.6
Week 3	41.1	0.0		0.0	0.5	0.00	No Data	0.00	No Date	1.5	0.0	0.5	0.0	0.0	0.5	13-Jun-18	4547.8	109147.8
																14-Jun-18	4565.9	109581.9
																15-Jun-18	4946.5	118717.0
																16-Jun-18	4803.6	115285.6
																17-Jun-18	4982.5	119580.1
																18-Jun-18	3909.6	93829.4
Week 4	35.1	0.0		0.0	0.7	0.00	No Data	0.00	No Date	3.3	0.0	1.0	0.0	0.0	0.2	19-Jun-18	4722.7	113345.0
																20-Jun-18	5227.4	125458.3
																21-Jun-18	6701.0	160823.5
																22-Jun-18	6870.6	164894.0
																23-Jun-18	5683.2	136397.2
																24-Jun-18	6348.8	152370.4
																25-Jun-18	6740.6	161775.0
																26-Jun-18	6979.9	167516.8
																27-Jun-18	8445.1	202681.5
																28-Jun-18	8896.4	213512.5
																29-Jun-18	6957.4	166976.6
																30-Jun-18	3042.8	73027.7
Mean Weekly ave. limit																		
	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0		4780.5 6000	114731.6 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated

23-Jul-2018

Releases to Controlled Waters

Release summary for the month May-18

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)		(m3/hr)	(m3)
Week 1	66.9	80		0.0	0.7	0	No Data	0.01	27	1.6	0.0	0.57	0.0	0.0	2.4	01-May-18	5711.4	137074.0
																02-May-18	4477.0	107447.9
																03-May-18	4997.5	119938.9
																04-May-18	4164.3	99943.7
																05-May-18	1678.4	40282.0
																06-May-18	1389.0	33336.7
Week 2	94.6	102.0		0.0	1.3	0.00	No Data	0.00	39	1.7	0.0	0.5	0.0	0.0	23.8	07-May-18	1544.5	37067.5
																08-May-18	1217.6	29222.0
																09-May-18	1083.1	25994.1
																10-May-18	424.4	10185.1
																11-May-18	1014.7	24353.0
																12-May-18	1167.7	28024.8
Week 3	46.7	No Result		0.0	1.9	0.30	No Data	0.00	61	3.3	0.1	1.7	0.5	0.5	7.3	13-May-18	1404.0	33695.1
																14-May-18	1490.4	35770.3
																15-May-18	1012.2	24293.7
																16-May-18	1002.7	24065.6
																17-May-18	1338.7	32128.3
																18-May-18	1183.9	28414.1
Week 4	52.0	77.0		0.0	1.4	0.00	No Data	0.00	36	1.3	0.0	0.8	0.0	0.0	3.1	19-May-18	735.9	17660.9
																20-May-18	284.9	6838.5
																21-May-18	583.0	13992.6
																22-May-18	1044.2	25059.8
																23-May-18	793.9	19054.5
																24-May-18	1013.3	24320.1
Week 5	73.1	24		0.0	0.4	0	No Data	0.01	16	1.5	0.0	0.66	0.0	0.0	2.27	25-May-18	1376.7	33041.6
																26-May-18	710.2	17045.6
																27-May-18	947.1	22731.0
																28-May-18	856.5	20555.2
																29-May-18	493.7	11849.6
																30-May-18	767.9	18430.1
Mean Weekly ave. limit																31-May-18	933.5	22404.31
	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0		1511.0 6000	36265.2 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated

23-Jul-2018

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2018

Operator: Tata Steel UK Ltd

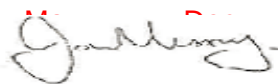
Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Apr	Month May	Jun	Limit
Phenol	Max load (kg/day)	8.1	12.0	16.7	350
	Mean load (kg/day)	0.3	0.4	0.6	
	Max conc. (mg/l)	0.1	0.1	0.1	
	Mean conc. (mg/l)	0.0	0.0	0.0	2
Soluble chromium	Max load (kg/day)	0.0	1.1	3.2	
	Mean load (kg/day)	0.0	0.0	0.2	
	Load (kg/mth)	0.00	1.08	6.41	200
	Max conc. (mg/l)	0.00	0.03	0.04	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	14.07	3.37	21.03	
	Mean load (kg/day)	1.04	0.39	1.71	
	Load (kg/mth)	31.2	12.2	51.4	300
	Max conc. (mg/l)	0.10	0.10	0.13	
	Mean conc. (mg/l)	0.01	0.01	0.02	0.3
Soluble iron	Max load (kg/day)	80.4	41.2	756.3	
	Mean load (kg/day)	16.3	7.1	56.3	
	Max conc. (mg/l)	0.9	1.3	9.7	
	Mean conc. (mg/l)	0.2	0.2	0.6	
Free cyanide	Max load (kg/day)	0.0	64.3	8.4	45
	Mean load (kg/day)	0.0	2.1	0.4	
	Max conc. (mg/l)	0.0	2.0	0.1	
	Mean conc. (mg/l)	0.00	0.06	0.00	0.2
PAH's	Load (kg/mth)	No data			250
	Concentration (mg/l)	0.017	0.011	0.016	1

Signed on behalf of the Operator



Dated 18-Jul-2018

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2018

Operator: Tata Steel UK Ltd

Release Point: W3 (ABO)

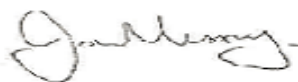
Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Apr	Month May	Jun	Limit
Suspended solids	Maximum daily* concentration (mg/)	65	51	0	200 (weekly)
	Mean daily concentration (mg/)	24	24	0	
Oil and grease	Maximum daily concentration (mg/)	16	23	0	20 (weekly)
	Mean daily concentration (mg/)	6	12	0	
Number of days of discharge in the month		10	0	0	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator



Dated 18-Jul-2018

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2018

Operator: Tata Steel UK Ltd

Release Point: W4

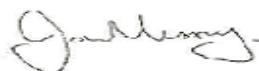
Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	Apr	Month May	Jun	Limit
pH	Max daily	9.5	8.0	8.0	
	Mean daily	9.5	8.0	8.0	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	340.0	21.0	50.0	
	Mean daily conc.	340.0	21.0	50.0	
Total iron (mg/l)	Max daily conc.	4.2	0.0	0.0	
	Mean daily conc.	4.2	0.0	0.0	
Soluble iron (mg/l)	Max daily conc.	0.1	0.0	0.0	
	Mean daily conc.	0.1	0.0	0.0	
Oil and grease (mg/l)	Max daily conc.	0.1	0.1	0.1	
	Mean daily conc.	0.1	0.1	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		1	1	0	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
03-Apr-18	340	9.5	4.17	0.10	0.10
03-May-18	21	8.0	0.01	0.10	0.10
11-Jun-18	50	8.0	0.01	0.01	0.05

Signed on behalf of the Operator



Dated

25-Jul-2018

Form I&S W4

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2018

Operator: Tata Steel UK Ltd

Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Apr	Month May	Jun	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	26.0	2.4	6.2	20 above background
	Max daily back-ground conc. (mg/l)	32.0	34.0	18.0	
	Mean background conc. (mg/l)	9.3	11.0	17.0	
Dock Flow*	Max daily flowrate (m3/day)	63213	198589	65515	350000
	Mean daily flowrate (m3/day)	55421	49439	16657	
	Max flowrate (m3/hour)	2799	9225	3303	16000
	Mean flowrate (m3/hour)	2312	2059	698	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	19841	16827	22171	
	Mean daily abstraction rate (m3/day)	17510	13345	18017	
Dock Return Temperature	Max daily discharge temperature (C)	Inconclusive data			36
	Mean daily discharge temperature (C)				

Signed on behalf of the Operator

Dated 18-Jul-2018

Form I&S W5