

Releases to Controlled Waters

Release summary for the month

July-17

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids* Conc. (mg/l)	COD Conc. (mg/l)	BOD Conc. (mg/l)	Sulphides Conc. (mg/l)	Thiocyanate Conc. (mg/l)	Cyanide Conc. (mg/l)	PAH** Conc. (mg/l)	Phenols Conc. (mg/l)	A+N+N**** Conc. (mg/l)	Iron Conc. (mg/l)	Lead Conc. (mg/l)	Zinc Conc. (mg/l)	Nickel Conc. (mg/l)	Chromium Conc. (mg/l)	Oil*** Conc. (mg/l)	Date	Discharge (m3/hr)	Discharge (m3)
Week 1	47.1	135		0.0	0.0	0.014	0.021	0.03	93	2.3	0.0	0.46	0.0	0.0	3.4	01-Jul-17	1072.9	25750.3
																02-Jul-17	1759.4	42225.9
																03-Jul-17	1568.4	37641.9
																04-Jul-17	1267.2	30412.2
																05-Jul-17	1428.4	34282.5
																06-Jul-17	1310.0	31439.6
Week 2	68.8	16.0		0.0	0.0	0.00	0.008	0.01	106	1.5	0.0	3.0	0.0	0.0	3.2	07-Jul-17	1353.3	32479.1
																08-Jul-17	1406.0	33744.7
																09-Jul-17	1310.9	31460.8
																10-Jul-17	1374.8	32994.6
																11-Jul-17	1143.3	27440.3
																12-Jul-17	1815.8	43578.5
Week 3	39.1	39.0		0.0	3.9	0.00	0.028	0.01	49	1.7	0.1	0.8	0.0	0.0	1.7	13-Jul-17	1915.7	45976.6
																14-Jul-17	1677.5	40260.9
																15-Jul-17	1676.7	40240.7
																16-Jul-17	1574.6	37790.7
																17-Jul-17	1644.9	39477.8
																18-Jul-17	1553.4	37280.6
Week 4	66.8	43.0		0.0	2.4	0.00	0.039	0.00	7	1.7	0.0	0.6	0.0	0.0	1.3	19-Jul-17	3083.7	74008.2
																20-Jul-17	2589.9	62158.2
																21-Jul-17	2182.0	52368.8
																22-Jul-17	4767.2	114412.9
																23-Jul-17	6526.4	156633.0
																24-Jul-17	5934.7	142433.1
Week 5																25-Jul-17	6021.0	144503.1
																26-Jul-17	5407.1	129771.2
																27-Jul-17	6324.2	151780.1
																28-Jul-17	3975.4	95409.0
																29-Jul-17	3889.4	93346.6
																30-Jul-17	4159.9	99836.8
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	31-Jul-17	5419.5	130068.3
																	2810.8 6000	67458.3 -

* Suspended solids breaches reported on a monthly basis

A breach was recorded and send regarding the A+N=N S5N/17/92A

Signed on behalf of the Operator

Dated

9-Oct-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

August-17

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids* Conc. (mg/l)	COD Conc. (mg/l)	BOD Conc. (mg/l)	Sulphides Conc. (mg/l)	Thiocyanate Conc. (mg/l)	Cyanide Conc. (mg/l)	PAH** Conc. (mg/l)	Phenols Conc. (mg/l)	A+N+N**** Conc. (mg/l)	Iron Conc. (mg/l)	Lead Conc. (mg/l)	Zinc Conc. (mg/l)	Nickel Conc. (mg/l)	Chromium Conc. (mg/l)	Oil*** Conc. (mg/l)	Date	Discharge (m3/hr)	Discharge (m3)
Week 1	47.1	12		0.0	3.8	0.00	0.009	0.01	10	2.0	0.0	0.47	0.0	0.0	3.1	01-Aug-17	5338.7	128129.8
																02-Aug-17	5777.9	138669.1
																03-Aug-17	6067.7	145625.9
																04-Aug-17	5727.7	137465.3
																05-Aug-17	3693.6	88646.9
																06-Aug-17	3571.3	85712.2
Week 2	28.6	21.0		0.0	2.7	0.00	0.020	0.00	29	1.6	0.0	0.7	0.0	0.0	1.3	07-Aug-17	2294.6	55069.8
																08-Aug-17	2408.6	57805.6
																09-Aug-17	2410.4	57848.4
																10-Aug-17	2187.9	52509.2
																11-Aug-17	2861.2	68668.0
																12-Aug-17	2920.1	70083.4
Week 3	40.3	12.0		0.0	2.5	0.00	0.014	0.01	18	3.0	0.0	0.4	0.0	0.0	0.9	13-Aug-17	3010.7	72257.6
																14-Aug-17	3276.6	78638.9
																15-Aug-17	3442.2	82613.8
																16-Aug-17	3385.3	81247.2
																17-Aug-17	3621.3	86911.0
																18-Aug-17	3988.7	95729.3
Week 4	46.6	44.0		0.0	0.7	0.00	0.007	0.01	27	1.4	0.1	0.2	0.0	0.0	2.0	19-Aug-17	3654.0	87695.4
																20-Aug-17	3094.0	74256.6
																21-Aug-17	3305.4	79329.7
																22-Aug-17	2839.4	68145.8
																23-Aug-17	1699.6	40789.4
																24-Aug-17	1815.5	43571.1
Week 5																25-Aug-17	1421.4	34112.4
																26-Aug-17	1483.6	35607.5
																27-Aug-17	1243.4	29842.2
																28-Aug-17	1472.5	35340.0
																29-Aug-17	1061.1	25467.2
																30-Aug-17	1157.8	27787.5
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	31-Aug-17	1242.0	29808.49
																	2950.8 6000	70818.9 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator

Dated

9-Oct-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

September-17

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	29.7	26		0.0	0.0	0.00	0.007	0.00	34	3.7	0.0	0.53	0.0	0.0	3.3	01-Sep-17	1178.3	28279.3
																02-Sep-17	1084.0	26015.8
																03-Sep-17	669.4	16066.0
																04-Sep-17	1182.6	28382.3
																05-Sep-17	1599.9	38398.7
																06-Sep-17	1647.4	39537.7
Week 2	25.7	43.0		0.0	0.5	0.00	0.037	0.00	71	1.5	0.1	0.3	0.0	0.0	0.8	07-Sep-17	1424.1	34177.2
																08-Sep-17	1206.2	28949.6
																09-Sep-17	1555.9	37340.9
																10-Sep-17	1838.7	44128.7
																11-Sep-17	1503.6	36085.5
																12-Sep-17	1230.7	29536.6
Week 3	36.9	91.0		0.0	0.7	0.00	0.011	0.01	70	2.1	0.1	0.4	0.0	0.0	1.4	13-Sep-17	727.3	17455.7
																14-Sep-17	1473.7	35368.7
																15-Sep-17	1851.4	44434.5
																16-Sep-17	1950.3	46807.2
																17-Sep-17	2595.1	62283.1
																18-Sep-17	2114.8	50755.1
Week 4	29.1	43.0		0.0	0.4	0.00	0.020	0.04	57	2.2	0.1	0.6	0.0	0.0	4.2	19-Sep-17	2171.5	52116.4
																20-Sep-17	1928.5	46285.1
																21-Sep-17	2313.6	55527.0
																22-Sep-17	2258.4	54202.1
																23-Sep-17	2264.7	54353.8
																24-Sep-17	2262.7	54304.3
Week 5	54.6	24		0.0	3.5	0.00	0.010	0.01	42	2.8	0.1	0.46	0.0	0.0	2.5	25-Sep-17	2049.5	49187.3
																26-Sep-17	2219.5	53268.3
																27-Sep-17	2360.4	56650.7
																28-Sep-17	2476.2	59429.0
																29-Sep-17	2263.6	54326.7
																30-Sep-17	2453.8	58890.6
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		1795.2 6000	43084.8 -

* Suspended solids breaches reported on a monthly basis

**Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_17_121A

Signed on behalf of the Operator

Dated

24-Oct-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter July to Sep-17

Operator: Tata Steel UK Ltd

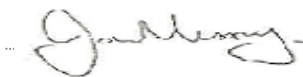
Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Phenol	Max load (kg/day)	6.2	14.6	5.4	350
	Mean load (kg/day)	0.6	0.9	0.8	
	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	8.8	0.0	
	Mean load (kg/day)	0.0	0.3	0.0	
	Load (kg/mth)	0.00	8.77	0.00	200
	Max conc. (mg/l)	0.00	0.10	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	13.01	7.93	10.84	
	Mean load (kg/day)	0.66	0.82	1.59	
	Load (kg/mth)	20.5	25.6	47.6	300
	Max conc. (mg/l)	0.20	0.10	0.20	
	Mean conc. (mg/l)	0.01	0.02	0.04	0.3
Soluble iron	Max load (kg/day)	125.3	126.2	75.5	
	Mean load (kg/day)	13.9	11.1	9.4	
	Max conc. (mg/l)	1.3	1.7	1.7	
	Mean conc. (mg/l)	0.2	0.2	0.2	
Free cyanide	Max load (kg/day)	3.0	7.9	0.0	45
	Mean load (kg/day)	0.1	0.3	0.0	
	Max conc. (mg/l)	0.1	0.1	0.0	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
PAH's	Load (kg/mth)	29.3	26.7	0.00	250
	Concentration (mg/l)	0.012	0.004	0.018	1

Signed on behalf of the Operator



Dated 24-Oct-2017

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter July to Sep-17

Operator: Tata Steel UK Ltd

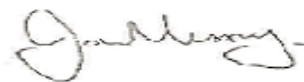
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	32.0	4.8	6.7	20 above background
	Max daily back-ground conc. (mg/l)	40.0	16.0	40.0	
	Mean background conc. (mg/l)	13.7	7.9	10.6	
Dock Flow*	Max daily flowrate (m3/day)	68241	54428	75254	350000
	Mean daily flowrate (m3/day)	24361	5888	28420	
	Max flowrate (m3/hour)	3362	2457	3506	16000
	Mean flowrate (m3/hour)	1014	249	1183	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	25639	24756	29365	
	Mean daily abstraction rate (m3/day)	21005	20795	22560	
Dock Return Temperature	Max daily discharge temperature (C)	25	27	26	36
	Mean daily discharge temperature (C)	23	25	25	

Signed on behalf of the Operator



Dated 9-Oct-2017

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter July to Sep

Operator: Tata Steel UK Ltd **Release Point:** W3 (ABO)

Location: Port Talbot **Permit:** BL7108

Parameter	Reporting Units	July	Month Aug	Sep	Limit
Suspended solids	Maximum daily* concentration (mg/)	52	338	130	200 (weekly)
	Mean daily concentration (mg/)	33	51	35	
Oil and grease	Maximum daily concentration (mg/)	16	44	20	20 (weekly)
	Mean daily concentration (mg/)	9	12	11	
Number of days of discharge in the month		10	5	3	

* Breaches now reported as weekly averages same as LSO

Releases to Controlled Waters

Release summary for the quarter July to Sep

Operator: Port Talbot

Release Point: W4

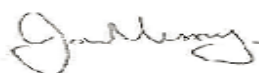
Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	July	Month Aug	Sep	Limit
pH	Max daily	7.5	7.4	7.8	
	Mean daily	7.5	7.4	7.8	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	47.3	48.0	10.0	
	Mean daily conc.	47.3	48.0	10.0	
Total iron (mg/l)	Max daily conc.	0.6	0.1	0.4	
	Mean daily conc.	0.6	0.1	0.4	
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.	0.1	0.1	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		3	0	5	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
03-Jul-17	47	7.5	0.64	0.05	0.10
14-Aug-17	48	7.4	0.10	0.10	0.10
20-Sep-17	10	7.8	0.40	0.10	0.10

Signed on behalf of the Operator



Dated

26-Oct-2017

Form I&S W4