

Releases to Controlled Waters

Release summary for the month

October-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	33.4			0.0	1.5	0.00	0.006	0.00	45	1.6	0.1	0.54	0.0	0.0	3.2	01-Oct-17	2660.6	63854.5
																02-Oct-17	2347.2	56333.8
																03-Oct-17	2547.5	61139.0
																04-Oct-17	2741.5	65795.9
																05-Oct-17	2482.1	59571.5
																06-Oct-17	2494.4	59865.0
Week 2	76.3	27.0		0.0	0.5	0.00	0.004	0.03	56	2.4	0.1	0.2	0.0	0.0	2.4	07-Oct-17	2495.0	59879.0
																08-Oct-17	2296.3	55110.5
																09-Oct-17	2160.4	51848.7
																10-Oct-17	2298.7	55168.1
																11-Oct-17	2330.4	55930.6
																12-Oct-17	2740.3	65767.0
Week 3	58.0	65.0		0.0	2.0	0.00	0.030	0.03	52	2.8	0.1	0.6	0.0	0.0	0.0	13-Oct-17	2388.8	57331.8
																14-Oct-17	2290.3	54967.4
																15-Oct-17	1795.0	43079.7
																16-Oct-17	2015.0	48360.3
																17-Oct-17	2227.3	53454.5
																18-Oct-17	1795.0	43079.1
Week 4	37.7	34.0		0.0	0.0	0.01	0.010	0.04	52	2.9	0.1	0.5	0.0	0.0	4.1	19-Oct-17	1780.4	42729.4
																20-Oct-17	1436.7	34480.6
																21-Oct-17	1447.1	34731.4
																22-Oct-17	1660.0	39839.7
																23-Oct-17	2317.2	55614.0
																24-Oct-17	1843.2	44237.1
Week 5																25-Oct-17	1450.7	34817.5
																26-Oct-17	1708.5	41004.5
																27-Oct-17	1647.7	39544.2
																28-Oct-17	1330.7	31935.7
																29-Oct-17	1299.1	31177.8
																30-Oct-17	1041.2	24987.9
Mean																31-Oct-17	1561.6	37479.08
Weekly ave. lin	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0		6000	-

* Suspended solids breaches reported on a monthly basis

**Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_17_134A

Signed on behalf of the Operator

Dated

26-Jan-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

November-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	32.0	41		0.0	0.8	0.01	0.019	0.04	41	2.5	0.1	0.6	0.0	0.0	5.3	01-Nov-17	1588.1	38114.5
																02-Nov-17	1662.9	39908.8
																03-Nov-17	1550.7	37217.1
																04-Nov-17	1741.0	41783.0
																05-Nov-17	1639.9	39358.5
																06-Nov-17	1789.0	42936.8
Week 2	75.4	93.0		0.0	1.3	0.00	0.008	0.00	78	2.9	0.1	0.5	0.0	0.0	5.0	07-Nov-17	2254.0	54096.1
																08-Nov-17	2041.9	49004.6
																09-Nov-17	1405.1	33722.7
																10-Nov-17	1498.6	35967.1
																11-Nov-17	1792.6	43021.8
																12-Nov-17	1863.2	44717.0
Week 3	110.6	31.0		0.0	3.0	0.00	0.015	0.01	68	2.0	0.1	0.2	0.1	0.1	1.4	13-Nov-17	1678.4	40281.5
																14-Nov-17	1691.5	40595.8
																15-Nov-17	1762.3	42295.8
																16-Nov-17	1763.3	42318.0
																17-Nov-17	2223.2	53357.1
																18-Nov-17	2453.3	58878.1
Week 4	33.1	42.0		0.0	1.6	0.00	0.014	0.04	59	3.0	0.1	0.4	0.0	0.0	1.7	19-Nov-17	2463.1	59114.8
																20-Nov-17	2695.9	64701.2
																21-Nov-17	2371.8	56924.1
																22-Nov-17	2764.5	66347.8
																23-Nov-17	2997.8	71947.8
																24-Nov-17	3196.3	76710.9
Week 5																25-Nov-17	3408.0	81792.6
																26-Nov-17	3228.8	77491.4
																27-Nov-17	2991.7	71801.4
																28-Nov-17	3014.1	72338.9
																29-Nov-17	3238.1	77715.4
																30-Nov-17	3432.4	82377.3
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		2273.4 6000	54561.3 -

* Suspended solids breaches reported on a monthly basis

**Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_18_03A

Signed on behalf of the Operator

Dated

24-Jan-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

December-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	60.0	71		0.0	1.5	0.00	0.003	0.00	21	2.9	0.1	0.7	0.0	0.0	3.4	01-Dec-17	3042.5	73020.1
																02-Dec-17	3114.2	74741.9
																03-Dec-17	2975.5	71412.8
																04-Dec-17	3237.0	77687.1
																05-Dec-17	2560.9	61462.2
																06-Dec-17	2864.8	68755.9
Week 2	33.7	62.0		0.0	0.3	0.00	0.013	0.00	63	1.7	0.0	0.6	0.0	0.0	4.3	07-Dec-17	3057.2	73372.5
																08-Dec-17	3448.5	82763.2
																09-Dec-17	3591.6	86199.4
																10-Dec-17	3251.7	78040.0
																11-Dec-17	3197.1	76729.8
																12-Dec-17	3572.6	85742.3
Week 3	25.1	41.0		0.0	2.0	0.00	0.013	0.01	24	1.6	0.1	0.4	0.0	0.0	4.1	13-Dec-17	2756.9	66164.5
																14-Dec-17	2697.1	64730.6
																15-Dec-17	2489.7	59752.6
																16-Dec-17	2625.5	63012.3
																17-Dec-17	2319.6	55671.4
																18-Dec-17	2871.8	68924.2
Week 4	34.0	0.0		0.0	1.7	0.00	0.005	0.01	20	1.4	0.1	0.4	0.0	0.0	1.1	19-Dec-17	2848.4	68361.5
																20-Dec-17	2896.2	69508.8
																21-Dec-17	3669.5	88067.7
																22-Dec-17	3420.5	82091.1
																23-Dec-17	3370.9	80901.4
																24-Dec-17	3804.8	91315.0
Week 5	28.3	5		0.0	3.9	0.00	0.013	0.01	18	3.4	0.0	0.6	0.0	0.0	0	25-Dec-17	3607.6	86582.8
																26-Dec-17	3767.1	90410.0
																27-Dec-17	4651.6	111638.8
																28-Dec-17	4457.7	106985.5
																29-Dec-17	4688.9	112533.4
																30-Dec-17	4047.4	97137.9
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-Dec-17	3309.8	79434.4
																	3297.2 6000	79133.9 -

* Suspended solids breaches reported on a monthly basis

**Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_18_09A

Signed on behalf of the Operator

Dated

26-Jan-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter october to Dec-17

Operator: Tata Steel UK Ltd

Release Point:

W1

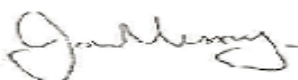
Location: Port Talbot

Permit:

BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Phenol	Max load (kg/day)	6.4	15.3	10.7	350
	Mean load (kg/day)	0.9	1.3	1.3	
	Max conc. (mg/l)	0.2	0.2	0.1	
	Mean conc. (mg/l)	0.0	0.0	0.0	2
Soluble chromium	Max load (kg/day)	0.0	5.3	0.0	
	Mean load (kg/day)	0.0	0.2	0.0	
	Load (kg/mth)	0.00	5.34	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)	11.97	14.39	12.95	
	Mean load (kg/day)	1.94	2.90	2.55	
	Load (kg/mth)	60.2	87.1	79.1	300
	Max conc. (mg/l)	0.20	0.20	0.20	
	Mean conc. (mg/l)	0.04	0.05	0.03	0.3
Soluble iron	Max load (kg/day)	63.9	232.5	61.2	
	Mean load (kg/day)	9.7	25.8	8.9	
	Max conc. (mg/l)	1.0	3.0	1.1	
	Mean conc. (mg/l)	0.2	0.4	0.1	
Free cyanide	Max load (kg/day)	5.6	4.0	0.0	45
	Mean load (kg/day)	0.2	0.1	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)	29.7	22.9	0.00	250
	Concentration (mg/l)	0.012	0.004	0.018	1

Signed on behalf of the Operator



Dated 10-Jan-2018

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter october to Dec-17

Operator: Port Talbot

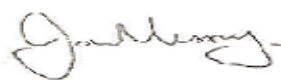
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	oct	Month Nov	Dec	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	16.6	7.9	0.9	20 above background
	Max daily back- ground conc. (mg/l)	36.0	32.0	72.0	
	Mean background conc. (mg/l)	11.0	11.2	13.1	
Dock Flow*	Max daily flowrate (m3/day)	1101	79834	90204	350000
	Mean daily flowrate (m3/day)	52	28813	67295	
	Max flowrate (m3/hour)	1024	3813	4273	16000
	Mean flowrate (m3/hour)	2	1206	2807	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	29332	36349	26330	
	Mean daily abstraction rate (m3/day)	27045	28026	22443	
Dock Return Temperature	Max daily discharge temperature (C)	23	20	17	36
	Mean daily discharge temperature (C)	22	19	14	

Signed on behalf of the Operator



Dated 10-Jan-2018

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter october to Dec

Operator: Port Talbot

Release Point: W3 (ABO)

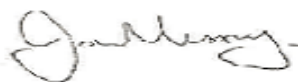
Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Suspended solids	Maximum daily* concentration (mg/)	139	82	116	200 (weekly)
	Mean daily concentration (mg/)	38	35	29	
Oil and grease	Maximum daily concentration (mg/)	18	18	22	20 (weekly)
	Mean daily concentration (mg/)	10	9	8	
Number of days of discharge in the month		21	22	29	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator



Dated 10-Jan-2018

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter october to Dec

Operator: Port Talbot

Release Point: W4

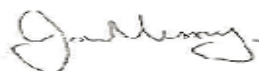
Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
pH	Max daily	7.8	8.0	8.3	
	Mean daily	7.8	8.0	8.3	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	10.0	153.0	6.0	
	Mean daily conc.	10.0	105.5	6.0	
Total iron (mg/l)	Max daily conc.	0.3	0.1	0.1	
	Mean daily conc.	0.3	0.1	0.1	
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).		1	1	2	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
24-Oct-17	47	7.5	0.64	0.05	0.10
21-Nov-17	153	8.0	0.12	0.10	0.10
05-Dec-17	10	7.8	0.40	0.10	0.10

Signed on behalf of the Operator

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Dated

16-Jan-2018

Form I&S W4

Releases to Controlled Waters

Annual release summary for the year

2017

Operator: Port Talbot

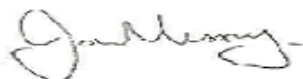
Release Point: W1

Location: Port Talbot

Permit: BL7108

Substance	Annual Release (kg)	Limit (kg)
Suspended solids	759065	2250000
Oil and grease	39651	360000
Free cyanide	60	2700
Ammoniacal nitrogen	185209	400000
Phenol	536	18000
Soluble lead	375	
Soluble chromium	29	
PAH's*	170	
Total iron	37614	
Soluble iron	3023	
Total aluminum	10517	
Total manganese	10948	
Total zinc	8095	
Soluble zinc	8284	

Signed on behalf of the Operator

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Dated

10-Jan-2018

Form I&S Annual W1