

Releases to Controlled Waters

Release summary for the month

January-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	54.6	48.0		0.0	1.4	0.00	0.015	0.01	40	2.6	0.0	0.4	0.0	0.0	1.1	01-Jan-17	370.0	8880.8
																02-Jan-17	447.9	10750.2
																03-Jan-17	702.4	16857.3
																04-Jan-17	195.4	4689.0
																05-Jan-17	164.2	3941.1
																06-Jan-17	390.5	9371.5
Week 2	72.9	15.0		0.0	0.3	0.00	0.021	0.04	32	2.8	0.0	0.4	0.0	0.0	3.4	07-Jan-17	486.1	11667.5
																08-Jan-17	874.7	20994.0
																09-Jan-17	912.4	21896.6
																10-Jan-17	791.9	19005.4
																11-Jan-17	825.6	19814.6
																12-Jan-17	821.6	19718.4
Week 3	54.0	50.0		0.0	0.7	0.00	0.009	0.00	12	2.2	0.0	0.4	0.0	0.0	6.9	13-Jan-17	878.6	21085.8
																14-Jan-17	1048.5	25164.7
																15-Jan-17	1148.0	27551.5
																16-Jan-17	1210.2	29044.0
																17-Jan-17	1258.0	30191.0
																18-Jan-17	1078.9	25894.0
Week 4	79.1	17.0		0.0	1.2	0.03	0.003	0.14	8	4.5	0.0	0.4	0.0	0.0	7.2	19-Jan-17	1061.0	25463.8
																20-Jan-17	1110.7	26655.6
																21-Jan-17	1137.7	27305.4
																22-Jan-17	1038.3	24919.4
																23-Jan-17	414.4	9946.1
																24-Jan-17	484.4	11626.3
Week 5																25-Jan-17	1376.7	33040.4
																26-Jan-17	676.3	16232.4
																27-Jan-17	942.3	22614.2
																28-Jan-17	988.0	23710.8
																29-Jan-17	1132.7	27184.1
																30-Jan-17	1334.7	32032.3
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	31-Jan-17	1525.2	36604.85
																	865.4 6000	20769.4 -

* Suspended solids breaches reported on a monthly basis

** Breaches of weekly average oil limits reported via the following Part As - S5N_17_04A & 5SN_1705A

Signed on behalf of the Operator



Dated

14-Apr-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

February-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	61.1	38.0		0.0	1.5	0.01	0.002	0.13	21	3.1	0.1	0.3	0.0	0.0	1.8	01-Feb-17	1688.7	40529.9
																02-Feb-17	1661.1	39866.1
																03-Feb-17	1216.8	29203.2
																04-Feb-17	1443.6	34646.2
																05-Feb-17	1204.2	28900.9
Week 2	30.9	44.0		0.0	5.0	0.00	0.005	0.04	50	2.3	0.1	0.2	0.0	0.0	4.0	06-Feb-17	996.9	23924.6
																07-Feb-17	1091.5	26196.5
																08-Feb-17	921.5	22116.0
																09-Feb-17	918.0	22033.1
																10-Feb-17	944.5	22667.0
Week 3	31.7	60.0		0.0	0.7	0.01	0.005	0.06	25	0.9	0.0	0.2	0.0	0.0	4.4	11-Feb-17	1008.9	24212.9
																12-Feb-17	1123.4	26961.3
																13-Feb-17	1199.2	28781.5
																14-Feb-17	914.0	21936.3
																15-Feb-17	1092.9	26228.6
Week 4	40.0	21.0		0.0	0.0	0.00	0.006	0.06	13	1.9	0.0	0.5	0.0	0.0	3.8	16-Feb-17	1097.6	26343.4
																17-Feb-17	1093.7	26248.4
																18-Feb-17	1028.8	24692.2
																19-Feb-17	779.5	18707.0
																20-Feb-17	928.3	22279.3
Week 5																21-Feb-17	652.8	15666.8
																22-Feb-17	674.0	16175.6
																23-Feb-17	637.6	15301.8
																24-Feb-17	536.3	12870.5
																25-Feb-17	918.0	22031.0
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	26-Feb-17	974.3	23384.0
																27-Feb-17	1059.1	25418.4
																28-Feb-17	230.4	5530.2

* Suspended solids breaches reported on a monthly basis

** Breaches of weekly average Thiocyanate limit reported via the following Part A - S5N_17_09A

Signed on behalf of the Operator



Dated

14-Apr-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

March-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	34.9	65.0		0.0	1.3	0.06	0.004	0.04	39	3.3	0.0	0.4	0.0	0.0	3.6	01-Mar-17	891.0	21385.0
																02-Mar-17	786.6	18879.0
																03-Mar-17	781.6	18758.0
																04-Mar-17	1022.7	24544.0
																05-Mar-17	697.5	16741.0
																06-Mar-17	818.0	19632.0
Week 2	26.0	59.0		0.0	1.8	0.01	0.064	0.50	86	2.3	0.0	0.5	0.0	0.0	1.1	07-Mar-17	1191.4	28594.0
																08-Mar-17	1276.8	30644.0
																09-Mar-17	1222.8	29348.0
																10-Mar-17	1619.1	38859.0
																11-Mar-17	1171.2	28109.0
																12-Mar-17	1430.5	34331.0
Week 3	21.4	16.0		0.0	0.4	0.00	0.009	0.11	55	1.2	0.1	0.3	0.3	0.1	3.8	13-Mar-17	1158.4	27802.0
																14-Mar-17	1303.0	31271.0
																15-Mar-17	1070.8	25698.0
																16-Mar-17	1159.0	27816.0
																17-Mar-17	1072.5	25739.0
																18-Mar-17	1235.1	29642.0
Week 4	28.3	20.0		0.0	0.0	0.00	0.002	0.04	38	1.7	0.1	0.3	0.0	0.0	5.1	19-Mar-17	1177.0	28248.0
																20-Mar-17	1246.0	29905.0
																21-Mar-17	1339.6	32151.0
																22-Mar-17	1307.5	31379.0
																23-Mar-17	1216.4	29193.0
																24-Mar-17	1212.8	29106.0
Week 5	36.3	17		0.0	0.0	0	0.003	0.03	24	1.7	0.0	0.4	0.0	0.0	1.9	25-Mar-17	1329.7	31913.0
																26-Mar-17	1379.1	33099.0
																27-Mar-17	1348.9	32373.0
																28-Mar-17	1343.0	32231.0
																29-Mar-17	1712.9	41110.0
																30-Mar-17	2153.3	51679.0
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	31-Mar-17	1867.0	44809
																	1171.7 6000	28121.1 -

* Suspended solids breaches reported on a monthly basis

** Breaches of weekly average PAH limit reported via the following Part A - S5N_17_27A

*** Breaches of weekly average oil limit reported via the following Part A - S5N_17_24A

****Breaches of weekly average Ammonia+Nitrite+Nitrate limit reported via the following Part A - S5N_17_34A

Signed on behalf of the Operator

G. Brooks

Dated

25-Apr-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter Jan to Mar-17

Operator: Tata Steel UK Ltd

Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jan	Month Feb	Mar	Limit
Phenol	Max load (kg/day)	14.6	12.0	54.3	350
	Mean load (kg/day)	1.5	1.6	4.1	
	Max conc. (mg/l)	0.4	0.3	1.9	
	Mean conc. (mg/l)	0.1	0.1	0.2	2
Soluble chromium	Max load (kg/day)	0.0	0.0	3.3	
	Mean load (kg/day)	0.0	0.0	0.5	
	Load (kg/mth)	0.00	0.00	14.95	200
	Max conc. (mg/l)	0.00	0.00	0.10	
	Mean conc. (mg/l)	0.00	0.00	0.02	0.2
Soluble lead	Max load (kg/day)	2.19	3.46	5.15	
	Mean load (kg/day)	0.11	0.48	0.55	
	Load (kg/mth)	3.4	13.9	17.2	300
	Max conc. (mg/l)	0.10	0.10	0.20	
	Mean conc. (mg/l)	0.01	0.02	0.02	0.3
Soluble iron	Max load (kg/day)	35.5	11.6	23.4	
	Mean load (kg/day)	4.3	2.9	3.2	
	Max conc. (mg/l)	1.3	0.4	1.4	
	Mean conc. (mg/l)	0.2	0.1	0.1	
Free cyanide	Max load (kg/day)	2.9	2.9	2.6	45
	Mean load (kg/day)	0.3	0.3	0.2	
	Max conc. (mg/l)	0.1	0.2	0.1	
	Mean conc. (mg/l)	0.01	0.02	0.01	0.2
PAH's	Load (kg/mth)	7.8	3.0	14.9	250
	Concentration (mg/l)	0.012	0.004	0.016	1

Signed on behalf of the Operator

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Dated 28-Apr-2017

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter Jan to Mar-17

Operator: Tata Steel UK Ltd

Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jan	Month Feb	Mar	Limit
Dock Return	Max. monthly conc. of return (mg/l)	44.0	14.0	2.7	20 above background
Suspended solids	Max daily back-ground conc. (mg/l)	78.0	48.0	34.0	
	Mean background conc. (mg/l)	33.2	24.5	9.4	
Dock Flow*	Max daily flowrate (m3/day)	62501	72296	70798	350000
	Mean daily flowrate (m3/day)	37071	62109	62907	
	Max flowrate (m3/hour)	2697	3202	3190	16000
	Mean flowrate (m3/hour)	1547	2588	2628	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	21036	22970	21794	
	Mean daily abstraction rate (m3/day)	20004	21233	20668	
Dock Return Temperature	Max daily discharge temperature (C)	23	20	23	36
	Mean daily discharge temperature (C)	20	18	21	

*Inconsistent data during November and December 2016 - investigation ongoing.

Signed on behalf of the Operator



Dated 14-Apr-2017

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter Jan to Mar

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

Location: Port Talbot **Permit:** BL7108

Parameter	Reporting Units	Jan	Month Feb	Mar	Limit
Suspended solids	Maximum daily* concentration (mg/)	114	145	112	200 (weekly)
	Mean daily concentration (mg/)	48	33	27	
Oil and grease	Maximum daily concentration (mg/)	26	25	20	20 (weekly)
	Mean daily concentration (mg/)	10	9	10	
Number of days of discharge in the month		9	23	31	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator



Dated 14-Apr-2017

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter Jan to Mar

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	Jan	Month Feb	Mar	Limit
pH	Max daily	9.6	*		
	Mean daily	9.6			
	Min daily	0.0			
Suspended solids (mg/l)	Max daily conc.	42.0			
	Mean daily conc.	42.0			
Total iron (mg/l)	Max daily conc.	0.0			
	Mean daily conc.	0.0			
Soluble iron (mg/l)	Max daily conc.	0.0			
	Mean daily conc.	0.0			
Oil and grease (mg/l)	Max daily conc.	0.0			
	Mean daily conc.	0.1			
Number of days of discharge in the month (daily rainfall > 15 mm).		0			

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
03-Jan-17	42	9.6	0.02	0.01	0.05
*					

*Awaiting analysis of February and March samples

Signed on behalf of the Operator

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Dated

28-Apr-2017

Form I&S W4