

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2017

Operator: Tata Steel UK Ltd

Release Point:

W1

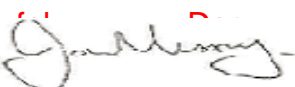
Location: Port Talbot

Permit:

BL7108

Parameter	Reporting Units	Apr	Month May	Jun	Limit
Phenol	Max load (kg/day)	9.9	11.3	16.4	350
	Mean load (kg/day)	0.9	1.3	2.3	
	Max conc. (mg/l)	0.4	0.2	0.4	
	Mean conc. (mg/l)	0.0	0.0	0.1	2
Soluble chromium	Max load (kg/day)	0.0	0.0	0.0	
	Mean load (kg/day)	0.0	0.0	0.0	
	Load (kg/mth)	0.00	0.00	0.00	200
	Max conc. (mg/l)	0.00	0.00	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	4.65	4.52	3.09	
	Mean load (kg/day)	0.28	0.15	0.26	
	Load (kg/mth)	8.4	4.5	7.9	300
	Max conc. (mg/l)	0.10	0.10	0.10	
	Mean conc. (mg/l)	0.01	0.00	0.01	0.3
Soluble iron	Max load (kg/day)	30.6	31.0	19.4	
	Mean load (kg/day)	5.1	2.5	2.4	
	Max conc. (mg/l)	0.9	0.7	0.5	
	Mean conc. (mg/l)	0.1	0.1	0.1	
Free cyanide	Max load (kg/day)	4.8	0.0	4.1	45
	Mean load (kg/day)	0.2	0.0	0.3	
	Max conc. (mg/l)	0.1	0.0	0.1	
	Mean conc. (mg/l)	0.00	0.00	0.01	0.2
PAH's	Load (kg/mth)	2.0	6.4	3.8	250
	Concentration (mg/l)	0.012	0.004	0.016	1

Signed on behalf of the Operator



Dated 18-Jul-2017

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2017

Operator: Tata Steel UK Ltd

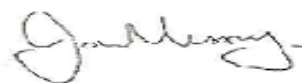
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Apr	Month May	Jun	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	10.8	3.3	2.0	20 above background
	Max daily back- ground conc. (mg/l)	52.0	134.0	108.0	
	Mean background conc. (mg/l)	16.4	57.4	43.2	
Dock Flow*	Max daily flowrate (m3/day)	82091	110300	77430	350000
	Mean daily flowrate (m3/day)	63173	60156	44708	
	Max flowrate (m3/hour)	3725	4924	3677	16000
	Mean flowrate (m3/hour)	2636	2509	1865	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	23463	23903	25182	
	Mean daily abstraction rate (m3/day)	21351	22903	23710	
Dock Return Temperature	Max daily discharge temperature (C)	24	28	34	36
	Mean daily discharge temperature (C)	22	21	27	

Signed on behalf of the Operator



Dated 20-Jul-2017

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter Apr to 31/06/2017

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/)	95	112	59	200 (weekly)
	Mean daily concentration (mg/)	31	50	38	
Oil and grease	Maximum daily concentration (mg/)	25	14	38	20 (weekly)
	Mean daily concentration (mg/)	9	10	12	
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 Apr to 31/06/2017

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	7.3	9.9	8.5	
	Mean daily	7.3	9.9	8.5	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	44.9	33.8	68.0	
	Mean daily conc.	44.9	33.8	58.0	
Total iron (mg/l)	Max daily conc.	1.0	0.3	4.1	
	Mean daily conc.	1.0	0.3	2.1	
Soluble iron (mg/l)	Max daily conc.	0.1	0.1	1.7	
	Mean daily conc.	0.1	0.1	0.9	
Oil and grease (mg/l)	Max daily conc.	0.1	0.1	0.9	
	Mean daily conc.	0.1	0.0	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		0	0	1	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
13-Apr-17	45	7.3	1.00	0.10	0.10
09-May-17	34	9.9	0.30	0.10	0.10
08-Jun-17	68	8.5	4.10	1.70	0.10

Signed on behalf of the Operator

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Dated

25-Jul-2017

Form I&S W4

Releases to Controlled Waters

Release summary for the month

April-17

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

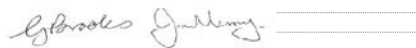
Permit:

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	25.1	17.0		0.0	0.5	0.00	0.001	0.00	39	2.5	0.0	0.3	0.0	0.0	1.1	01-Apr-17	2058.4	49401.3
																02-Apr-17	1472.4	35336.7
																03-Apr-17	1807.5	43380.4
																04-Apr-17	1937.4	46498.1
																05-Apr-17	1568.4	37642.4
																06-Apr-17	1705.4	40930.7
Week 2	28.3	70.0		0.0	0.8	0.00	0.001	0.06	16	2.0	0.0	0.9	0.0	0.0	1.7	07-Apr-17	1606.5	38554.8
																08-Apr-17	1308.0	31392.0
																09-Apr-17	1595.1	38282.7
																10-Apr-17	1277.5	30660.4
																11-Apr-17	1146.9	27524.7
																12-Apr-17	1389.4	33344.6
Week 3	33.7	85.0		0.0	1.4	0.00	0.009	0.00	29	2.3	0.0	0.6	0.0	0.0	0.2	13-Apr-17	950.5	22811.9
																14-Apr-17	395.7	9496.2
																15-Apr-17	495.2	11884.2
																16-Apr-17	412.9	9909.6
																17-Apr-17	992.5	23819.6
																18-Apr-17	553.1	13273.8
Week 4	23.4	96.0		0.0	1.0	0.01	0.002	0.01	16	1.3	0.0	0.3	0.0	0.0	2.2	19-Apr-17	2337.6	56103.2
																20-Apr-17	2191.1	52586.2
																21-Apr-17	2126.4	51033.7
																22-Apr-17	2061.2	49467.9
																23-Apr-17	1728.8	41490.5
																24-Apr-17	2011.5	48276.0
																25-Apr-17	1809.6	43429.5
																26-Apr-17	1798.2	43156.6
																27-Apr-17	1574.6	37790.7
																28-Apr-17	1571.4	37713.4
																29-Apr-17	1747.3	41934.9
																30-Apr-17	1953.8	46890.2
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		1519.5	36467.2
																	6000	-

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated

18-Jul-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

May-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	46.3	90		0.0	0.0	0	0.003	0	12	1.9	0.0	0.39	0.0	0.0	1.8	01-May-17	2475.6	59415.0
																02-May-17	2582.1	61969.9
																03-May-17	1822.0	43727.9
																04-May-17	2313.7	55529.6
																05-May-17	1649.2	39579.7
																06-May-17	1631.1	39147.0
Week 2	66.0	85.0		0.0	0.5	0.00	0.004	0.06	14	1.6	0.0	0.5	0.0	0.0	1.3	07-May-17	2029.1	48698.7
																08-May-17	2362.3	56696.1
																09-May-17	1696.4	40712.5
																10-May-17	1420.0	34079.1
																11-May-17	1746.5	41916.2
																12-May-17	1927.7	46265.0
Week 3	81.1	86.0		0.0	0.0	0.00	0.007	0.04	14	1.4	0.0	0.5	0.0	0.0	1.0	13-May-17	1758.8	42210.8
																14-May-17	1771.3	42511.6
																15-May-17	2546.0	61103.3
																16-May-17	2228.6	53485.5
																17-May-17	1523.1	36555.1
																18-May-17	1856.3	44551.3
Week 4	60.3	72.0		0.0	0.0	0.00	0.005	0.00	20	4.2	0.0	0.5	0.0	0.0	0.9	19-May-17	1765.2	42364.8
																20-May-17	1550.2	37204.3
																21-May-17	1480.2	35524.0
																22-May-17	1844.3	44262.3
																23-May-17	1882.2	45172.2
																24-May-17	2634.5	63226.9
Week 5	58.9	38		0.0	1.6	0.03	0.008	0.17	14	1.5	0.0	0.36	0.0	0.0	0.73	25-May-17	1920.1	46082.7
																26-May-17	1806.5	43356.9
																27-May-17	1708.7	41008.4
																28-May-17	1579.9	37917.1
																29-May-17	1666.4	39992.5
																30-May-17	1613.1	38714.7
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		1879.7	45113.7
																	6000	-

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated

18-Jul-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

June-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	80.9	25		0.0	0.5	0	0.002	0.01	24	2.2	0.0	0.43	0.0	0.0	2.8	01-Jun-17	1431.7	34361.3
																02-Jun-17	1705.1	40921.5
																03-Jun-17	1479.4	35506.2
																04-Jun-17	1591.3	38192.4
																05-Jun-17	1730.2	41524.7
																06-Jun-17	2362.9	56710.2
Week 2	49.1	26.0		0.0	2.8	0.00	0.002	0.07	15	1.5	0.0	0.5	0.0	0.0	2.3	07-Jun-17	2338.9	56133.3
																08-Jun-17	1361.4	32674.3
																09-Jun-17	1477.6	35462.7
																10-Jun-17	1276.6	30638.2
																11-Jun-17	1619.3	38864.0
																12-Jun-17	1617.2	38812.0
Week 3	43.6	27.0		0.0	0.0	0.00	0.004	0.01	18	1.8	0.0	0.4	0.0	0.0	0.9	13-Jun-17	1287.9	30909.2
																14-Jun-17	1321.3	31712.2
																15-Jun-17	1490.2	35765.6
																16-Jun-17	883.4	21201.3
																17-Jun-17	1031.6	24758.0
																18-Jun-17	940.7	22576.4
Week 4	38.8	63.0		0.0	1.6	0.01	0.012	0.08	26	1.6	0.0	0.5	0.0	0.0	0.0	19-Jun-17	1303.8	31291.6
																20-Jun-17	1055.0	25319.2
																21-Jun-17	966.6	23198.2
																22-Jun-17	1022.9	24548.9
																23-Jun-17	1139.0	27336.1
																24-Jun-17	1038.0	24912.5
																25-Jun-17	696.7	16720.3
																26-Jun-17	972.1	23330.9
																27-Jun-17	1169.0	28057.2
																28-Jun-17	1058.7	25408.3
																29-Jun-17	1146.1	27506.4
																30-Jun-17	1111.3	26671.1
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		1320.9 6000	31700.8 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated

18-Jul-2017

Form I&S W1 Monthly