

Releases to Controlled Waters

Release summary for the month March-15

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids		Oil & grease		Ammonia		Sol Zinc		Flowrate			Temperature		pH		
	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Max Hr (m3/hr)	Mean (m3/hr)	Daily (m3)	Max Hr C	Mean C	Max	Min	Mean
01-Mar-15	44	5161	2	223	11	1290	0.3	35	2520	4888	117306	22	20	7.9	7.4	7.6
02-Mar-15	28	3456	2	296	13	1605	0.7	86	2519	5143	123425	25	21	8.6	7.1	7.6
03-Mar-15	38	4403	0	12	18	2085	0.2	23	2302	4828	115860	13	12	8.1	7.3	7.7
04-Mar-15	26	2896	0	11	17	1894	0.2	22	2748	4641	111388	20	11	8.4	7.1	8.0
05-Mar-15	18	1997	0	11	17	1886	0.2	22	2603	4622	110935	12	11	8.6	6.8	8.0
06-Mar-15	14	1524	0	11	15	1633	0.1	11	3004	4537	108887	16	12	8.7	7.8	8.3
07-Mar-15	14	1494	0	21	6	640	0.2	21	3171	4448	106746	16	13	8.6	8.0	8.2
08-Mar-15	50	5198	1	146	14	1455	0.4	42	2782	4332	103957	18	14	8.3	7.5	8.0
09-Mar-15	40	3821	0	10	17	1624	0.6	57	2465	3980	95521	19	18	8.5	7.5	7.8
10-Mar-15	22	1991	0	9	12	1086	0.2	18	2663	3771	90514	16	18	7.9	7.6	7.7
11-Mar-15	34	2882	0	8	2	153	0.0	0	3114	3532	84778	17	17	8.7	7.6	8.0
12-Mar-15	116	10818	0	9	12	1119	0.4	37	2719	3886	93257	19	17	8.3	6.9	7.8
13-Mar-15	52	5184	0	10	10	997	0.6	60	3101	4154	99698	20	18	8.2	7.6	8.0
14-Mar-15	0	0	0	0	0	0	0.0	0	3273	3814	91548	21	16	8.3	7.5	7.9
15-Mar-15	56	4737	0	8	12	1015	0.4	34	2777	3525	84591	16	15	8.1	7.7	7.9
16-Mar-15	36	2986	0	8	14	1161	1.0	83	2721	3457	82957	22	16	8.3	7.9	8.2
17-Mar-15	36	2721	0	8	15	1134	0.8	60	2933	3150	75588	18	17	8.6	8.0	8.3
18-Mar-15	50	4258	2	187	18	1533	0.7	60	2935	3548	85162	23	16	8.7	7.9	8.4
19-Mar-15	24	1952	0	8	13	1057	0.7	57	2690	3389	81332	16	15	8.4	7.1	8.0
20-Mar-15	42	3750	0	9	8	714	1.0	89	2964	3721	89294	22	17	8.5	7.7	8.2
21-Mar-15	40	3294	2	181	11	906	1.2	99	2681	3431	82342	19	17	8.8	8.0	8.4
22-Mar-15	72	5391	2	172	16	1198	0.2	15	2214	3120	74873	22	18	8.9	8.2	8.4
23-Mar-15	28	2201	0	8	16	1257	0.6	47	2539	3275	78593	21	20	9.0	8.1	8.4
24-Mar-15	96	8011	0	8	38	3171	0.2	17	2890	3477	83444	21	20	9.2	7.9	8.4
25-Mar-15	82	7022	6	497	3	257	0.2	17	2135	3568	85640	22	20	9.3	7.9	8.4
26-Mar-15	76	6145	1	81	11	889	0.3	24	2383	3369	80857	22	20	8.4	7.4	7.8
27-Mar-15	56	4028	0	22	17	1223	0.5	36	2203	2997	71932	23	21	8.3	7.9	8.1
28-Mar-15	34	2899	1	102	16	1364	0.1	9	2057	3553	85265	21	20	8.6	7.9	8.2
29-Mar-15	26	2354	0	9	16	1448	0.2	18	2077	3772	90531	0	0	8.2	7.6	7.9
30-Mar-15	42	3335	0	8	12	953	0.2	16	1783	3309	79410	0	0	8.6	8.0	8.2
31-Mar-15	80	6369	1	48	12	955	0.3	24	*	3317	79614	22	20	*	*	*
Mean	44	3945	1	69	13	1216	0.4	37	-	3824	91782	18.1	15.8	-	-	8.1
Month limit	150	-	25	-	27.5	-	2.5	-	-	-	-	-	-	-	-	-
Max	-	10818	-	497	-	3171	-	99	3273	-	123425	25.1	20.9	9.3	6.8	8.4
Daily limit	-	27500	-	3150	-	4000	-	-	6000	-	-	45.0	40.0	10	6	-

Month total (kg)

1140

Max pH Min pH

Monthly limit (kg)

2100

* Monitor not returning reliable data on the 31st

Signed on behalf of the Operator

Dated 24-Apr-2015

Form I&S W1 Monthly

Release summary for the month of

MAR

2015

Operator: Tata Steel UK Ltd

Transfer Points: E1, E2, E9

Location: Port Talbot

Permit: BL7108

Effluent transfer point E1: Coke Ovens BET (No.6 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	8.9	8.9	8.9	0.0
Suspended Solids	271	4	5890	1044
Oil & grease	54	8	481	94
Ammoniacal Nitrogen	237	52	397	88
Cyanide	0.9	0.2	2.7	0.6
Monohydric Phenol	11.1	1.2	23.6	9.3

Effluent transfer point E2: Coal stockyards (No.10 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
Suspended Solids	55	8	226	49
Oil & grease	0	0	2	0

Effluent transfer point E9: Ammonia liquor to BET

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
Ammonical Nitrogen	1053	670	1610	203

Signed on behalf of the Operator



Dated 24/04/2015

Form Effluent 1

Release summary for the month of

MAR

2015

Operator: Tata Steel UK Ltd

Transfer Points: E3, E4, E5

Location: Port Talbot

Permit: BL7108

Effluent transfer point E3: Blast Furnace clarification ponds (No.1 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.1	6.5	7.6	0.3
Suspended Solids	39	6	154	29
Oil & grease	0	0	3	1
Soluble Zinc	0.3	0.0	0.9	0.3
Total Zinc	0.7	0.1	1.7	0.4

Effluent transfer point E4: Steel Plant clarification ponds (No.5 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	10.7	10.2	11.0	0.2
Suspended Solids	63	6	198	42
Oil & grease	0	0	2	0
Soluble Zinc	0.0	0.0	0.5	0.1
Total Zinc	0.3	0.0	1.0	0.2

Effluent transfer point E5: Concast (Concast sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.6	6.2	8.4	0.5
Suspended Solids	90	4	778	145
Oil & grease	7	0	49	13
Soluble Zinc	0.1	0.0	0.4	0.1
Total Zinc	0.2	0.0	1.3	0.3

Signed on behalf of the Operator



Dated 24/04/2015

Form Effluent 2

Release summary for the month of

MAR

2015

Operator: Tata Steel UK Ltd

Transfer Points: E6, E7, E8

Location: Port Talbot

Permit: BL7108

Effluent transfer point E6: Hot rolling mill (HM canals)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.6	6.8	8.1	0.3
Suspended Solids	120	6	788	145
Oil & grease	7	0	31	7

Effluent transfer point E7: CAPL effluent treatment plant (CAPL sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.2	6.6	9.0	0.5
Suspended Solids	221	11	914	201
Oil & grease	55	0	167	44

Effluent transfer point E8: Cold mill effluent (Final effluent sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	8.2	6.5	9.7	0.8
Suspended Solids	381	22	1064	247
Oil & grease	11	0	70	16

Signed on behalf of the Operator



Dated 24/04/2015

Form Effluent 3

Releases to Controlled Waters

Release summary for the quarter Jan to Mar-15

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)	109.4	56.7	166.9	350
	Mean load (kg/day)	33.5	8.6	14.9	
	Max conc. (mg/l)	0.8	0.5	2.0	
	Mean conc. (mg/l)	0.3	0.1	0.2	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	0.10	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	0.00	0.00	0.00	
	Mean load (kg/day)	0.00	0.00	0.00	
	Load (kg/mth)	0.0	0.0	0.0	300
	Max conc. (mg/l)	0.00	0.10	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.3
Soluble iron	Max load (kg/day)	42.7	30.8	15.1	
	Mean load (kg/day)	3.4	1.8	1.4	
	Max conc. (mg/l)	0.3	0.2	0.2	
	Mean conc. (mg/l)	0.0	0.0	0.0	
Free cyanide	Max load (kg/day)	15.4	15.4	17.1	45
	Mean load (kg/day)	5.9	4.9	1.2	
	Max conc. (mg/l)	0.1	0.1	0.2	
	Mean conc. (mg/l)	0.05	0.04	0.01	0.2
PAH's	Load (kg/mth)	4.8	0.7	5.9	250
	Concentration (mg/l)	0.001	0.000	0.002	1

Signed on behalf of the Operator



Dated 24-Apr-2015

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter Jan to Mar-15

Operator: Tata Steel UK Ltd

Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jan	Month Feb	Mar	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	38.0	6.8	15.1	20 above background
	Max daily back-ground conc. (mg/l)	66.0	64.0	36.0	
	Mean background conc. (mg/l)	18.0	17.7	14.0	
Dock Flow	Max daily flowrate (m3/day)	79454	77911	78694	350000
	Mean daily flowrate (m3/day)	72743	72960	76490	
	Max flowrate (m3/hour)	3501	3503	3346	16000
	Mean flowrate (m3/hour)	3031	3040	3187	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	38541	40832	40678	
	Mean daily abstraction rate (m3/day)	36596	36396	36654	
Dock Return Temperature	Max daily discharge temperature (C)	24	20	22	36
	Mean daily discharge temperature (C)	20	17	20	

Signed on behalf of the Operator



Dated 24-Apr-2015

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/)	32	73	76	200
	Mean daily concentration (mg/)	17	20	25	
Oil and grease	Maximum daily concentration (mg/)	4	4	6	20
	Mean daily concentration (mg/)	2	2	2	
Number of days of discharge in the month		15	28	17	

* Potential breach on 15/07 - no breach due to high tide and associated suspended solids related to this. see email to NRW subject: Permit BL7108 Q3 Returns - Incomplete Returns/
Potential Breach: 27/10/2014

Signed on behalf of the Operator

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Dated 24-Apr-2015

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	8.5	8.6	7.9	
	Mean daily	8.5	8.2	7.9	
	Min daily	8.5	7.7	7.9	
Suspended solids (mg/l)	Max daily conc.	18.0	172.0	10.0	
	Mean daily conc.	18.0	116.0	10.0	
Total iron (mg/l)	Max daily conc.	0.6	1.1	0.0	
	Mean daily conc.	0.6	0.7	0.0	
Soluble iron (mg/l)	Max daily conc.	0.0	0.0	0.0	
	Mean daily conc.	0.0	0.0	0.0	
Oil and grease (mg/l)	Max daily conc.	0.4	0.1	0.1	
	Mean daily conc.	0.4	0.1	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		0.0	1.0	0.0	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
05-Jan-15	18	8.50	0.60	0.005	0.40
23-Feb-15	172	7.70	0.30	0.005	0.10
16-Mar-15	10	7.90	0.005	0.005	0.10

Signed on behalf of the Operator



Dated

24-Apr-2015

Form I&S W4