

Releases to Controlled Waters

Release summary for the month

August-20

Operator: Tata Steel UK Ltd

Release Point: W1 (LSO)

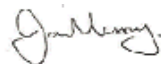
Location: Port Talbot

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	19.4	37	No Data	0.67	0.05	0.01	0.05	20	0.9	0.05	0.36	0.14	0.05	1.7	01-Aug-20	1583.1	37993.0	
															02-Aug-20	1440.1	34561.0	
															03-Aug-20	1337.6	32102.0	
															04-Aug-20	1501.1	36027.0	
															05-Aug-20	1517.6	36424.0	
															06-Aug-20	1547.0	37129.0	
Week 2	25.1	0	No Data	1.0	0.05	0.02	0.05	20	0.8	0.05	0.4	0.13	0.05	3.5	07-Aug-20	1313.0	31512.0	
															08-Aug-20	1226.5	29437.0	
															09-Aug-20	1882.1	45171.0	
															10-Aug-20	1868.4	44841.0	
															11-Aug-20	1495.4	35890.0	
															12-Aug-20	1231.5	29556.0	
Week 3	16.0	10	No Data	0.1	0.04	No Data	0.05	14	1.1	0.05	0.5	0.10	0.05	2.6	13-Aug-20	1307.6	31383.0	
															14-Aug-20	2380.3	57127.0	
															15-Aug-20	2491.0	59785.0	
															16-Aug-20	1916.7	46001.0	
															17-Aug-20	1475.1	35402.0	
															18-Aug-20	2265.0	54359.0	
Week 4	20.3	63	No Data	1.7	0.05	No Data	0.05	12	1.0	0.05	0.4	0.12	0.05	3.3	19-Aug-20	2425.3	58208.0	
															20-Aug-20	2493.2	59837.0	
															21-Aug-20	1977.3	47455.0	
															22-Aug-20	2221.0	53303.0	
															23-Aug-20	2319.8	55675.0	
															24-Aug-20	1966.4	47194.0	
Week 5															25-Aug-20	2083.7	50009.0	
															26-Aug-20	2525.6	60615.0	
															27-Aug-20	2525.8	60619.0	
															28-Aug-20	2311.2	55470.0	
															29-Aug-20	2552.4	61258.0	
															30-Aug-20	1957.5	46981.0	
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-Aug-20	2121.4	50914
																	1911.6	45878.6
																	6000	-

*PAH samples sent for analysis but results delayed. Sheet to be resubmitted on receipt of results

Signed on behalf of the Operator



Dated

23-Oct-2020

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

July-20

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	21.4	47	No data	0.1	0.04	No data	0.04	24	0.8	0.05	0.86	0.11	0.08	1.9	01-Jul-20	1648.7	39569.0	
															02-Jul-20	1112.3	26694.0	
															03-Jul-20	1896.3	45512.0	
															04-Jul-20	1428.5	34283.0	
															05-Jul-20	2132.9	51191.0	
															06-Jul-20	2347.5	56341.0	
Week 2	18.0	46	No data	0.5	0.01	0.03	0.01	22	0.5	0.05	0.73	0.10	0.06	2.5	07-Jul-20	2121.6	50919.0	
															08-Jul-20	1028.6	24687.0	
															09-Jul-20	1190.7	28577.0	
															10-Jul-20	2615.9	62782.0	
															11-Jul-20	2607.5	62580.0	
															12-Jul-20	2598.1	62354.0	
Week 3	34.3	56	No data	0.6	0.05	0.01	0.05	18	0.9	0.05	0.7	0.1	0.08	1.0	13-Jul-20	2250.8	54019.0	
															14-Jul-20	1650.9	39622.0	
															15-Jul-20	2476.3	59432.0	
															16-Jul-20	2427.9	58271.0	
															17-Jul-20	2704.1	64897.0	
															18-Jul-20	2473.7	59370.0	
Week 4	18.6	45	No data	0.8	0.05	No data	0.05	19	0.4	0.05	0.73	0.08	0.05	3.3	19-Jul-20	1774.8	42594.0	
															20-Jul-20	2425.5	58212.0	
															21-Jul-20	1339.2	32141.0	
															22-Jul-20	1316.1	31585.0	
															23-Jul-20	1791.6	42999.0	
															24-Jul-20	2333.7	56008.0	
Week 5	28.0	51	No data	2.0	0.05	0.03	0.05	22	0.9	0.05	0.73	0.09	0.05	3.29	25-Jul-20	1577.8	37867.0	
															26-Jul-20	2028.9	48693.0	
															27-Jul-20	2052.0	49249.0	
															28-Jul-20	2272.9	54549.0	
															29-Jul-20	1671.9	40126.0	
															30-Jul-20	2056.7	49360.0	
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-Jul-20	1283.3	30799
																1956.0	46944.6	
																	6000	-

Signed on behalf of the Operator

Dated

20-Oct-2020

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

September-20

Operator: Tata Steel UK Ltd

Release Point: W1 (LSO)

Location: Port Talbot

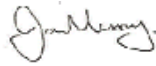
Permit: BL7108

	S.Solids*	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH**	Phenols	A+N+N****	Iron	Lead	Zinc	Nickel	Chromium	Oil***	Date	Discharge (m3/hr)	Discharge (m3)
	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)			
Week 1	21.7	52	No Data	No Data	1.8	0.10	No Data	0.1	22	1.5	0.05	0.85	0.1	0.05	2.7	01-Sep-20	2108.0	50592.0
																02-Sep-20	1724.4	41385.0
																03-Sep-20	671.8	16124.0
																04-Sep-20	1445.8	34698.0
																05-Sep-20	2122.8	50946.0
																06-Sep-20	2240.4	53770.0
Week 2	26.0	No Data	No Data	No Data	1.3	0.05	No Data	0.05	13	0.5	0.05	0.3	0.1	0.05	0.7	07-Sep-20	1968.5	47245.0
																08-Sep-20	2052.1	49251.0
																09-Sep-20	1422.6	34143.0
																10-Sep-20	2235.2	53645.0
																11-Sep-20	2414.0	57936.0
																12-Sep-20	2052.7	49264.0
Week 3	36.3	No Data	No Data	No Data	1.0	0.05	No Data	0.05	15	0.8	0.05	0.6	0.1	0.05	0.8	13-Sep-20	1814.1	43538.0
																14-Sep-20	1503.4	36082.0
																15-Sep-20	1367.4	32817.0
																16-Sep-20	1917.2	46012.0
																17-Sep-20	1865.1	44761.0
																18-Sep-20	1947.0	46727.0
Week 4	60.3	No Data	No Data	No Data	1.0	0.05	No Data	0.05	18	0.5	0.05	0.7	0.1	0.05	0.5	19-Sep-20	2153.3	51680.0
																20-Sep-20	2059.5	49428.0
																21-Sep-20	2275.6	54614.0
																22-Sep-20	1842.9	44228.0
																23-Sep-20	1498.3	35960.0
																24-Sep-20	2344.4	56266.0
Week 5	20.3	No Data	No Data	No Data	1.9	0.05	No Data	0.05	19	1.1	0.05	0.8	0.1	0.05	2.5	25-Sep-20	2090.3	50168.0
																26-Sep-20	1377.5	33060.0
																27-Sep-20	1539.2	36940.0
																28-Sep-20	1881.2	45148.0
																29-Sep-20	1638.3	39319.0
																30-Sep-20	1401.3	33631.0
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		1832.5 6000	43979.3 -

*COD results for September missing due to limited supply of consumables – Part A to follow

** PAH samples sent for analysis but results delayed. Sheet to be resubmitted on receipt of results

Signed on behalf of the Operator



Dated

23-Oct-2020

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter July to Sep-20

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)	0.0	5.4	6.9	350
	Mean load (kg/day)	0.0	0.2	0.4	
	Max conc. (mg/l)	0.0	0.1	0.4	
	Mean conc. (mg/l)	0.0	0.0	0.0	2
Soluble chromium	Max load (kg/day)	5.6	6.1	0.0	
	Mean load (kg/day)	0.2	0.3	0.0	
	Load (kg/mth)	5.62	0.21	0.00	200
	Max conc. (mg/l)	0.10	0.10	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	0.00	0.60	0.00	
	Mean load (kg/day)	0.00	0.02	0.00	
	Load (kg/mth)	18.3	2.1	4.5	300
	Max conc. (mg/l)	0.00	0.01	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.3
Soluble iron	Max load (kg/day)	81.1	82.5	153.1	
	Mean load (kg/day)	5.5	8.2	8.5	
	Max conc. (mg/l)	1.3	2.3	3.7	
	Mean conc. (mg/l)	0.1	0.2	0.2	
Free cyanide	Max load (kg/day)	0.0	5.4	5.5	45
	Mean load (kg/day)	0.0	0.2	0.4	
	Max conc. (mg/l)	0.0	0.1	0.1	
	Mean conc. (mg/l)	0.00	0.00	0.01	0.2
PAH's	Load (kg/mth)	1.1	0.6	0.00	250
	Concentration (mg/l)	0.018	0.005	0.010	1

Signed on behalf of the Operator



Dated 20-Oct-2020

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter July to Sep

Operator: Port Talbot

Release Point: W3 (ABO)

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	July	Month Aug	Sep	Limit
Suspended solids	Maximum daily* concentration (mg/)	47	0	74	200 (weekly)
	Mean daily concentration (mg/)	47	0	26	
Oil and grease	Maximum daily concentration (mg/)	16	0	19	20 (weekly)
	Mean daily concentration (mg/)	16	0	12	
Number of days of discharge in the month		1	0	12	

John Henry

Signed on behalf of the Operator

Dated 20-Oct-2020

Form I&S W3

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	9.7	9.1	8.0	
	Mean daily	9.2	8.6	8.0	
	Min daily	8.8	8.2	8.0	
Suspended solids (mg/l)	Max daily conc.	494.0	50.0	24.0	
	Mean daily conc.	112.1	36.0	24.0	
Total iron (mg/l)	Max daily conc.	1.5	4.3	0.2	
	Mean daily conc.	0.9	1.3	0.2	
Soluble iron (mg/l)	Max daily conc.	0.1	0.1	0.1	
	Mean daily conc.	0.9	0.1	0.1	
Oil and grease (mg/l)	Max daily conc.	0.7	3.7	0.0	
	Mean daily conc.	0.2	1.8	0.0	
Number of days of discharge in the month (daily rainfall > 15 mm).		7	6	0	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
09-Jul-20	494	9.7	1.50	0.10	0.70
28-Aug-20	50	9.1	4.30	0.10	3.7
08-Sep-20	24	8.0	0.20	0.10	0.00

Signed on behalf of the Operator

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Dated 20-Oct-2020

Form I&S W4

Releases to Controlled Waters

Release summary for the quarter July to Sep-20

Operator: Port Talbot

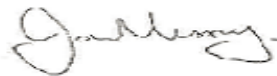
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Dock Return	Max. monthly conc. of return (mg/l)	10.9	7.7	28.0	20 above background
Suspended solids	Max daily back-ground conc. (mg/l)	4.8	4.8	10.0	
	Mean background conc. (mg/l)	4.2	3.9	6.7	
Dock Flow*	Max daily flowrate (m3/day)	195333	197239	202515	350000
	Mean daily flowrate (m3/day)	128070	176949	176488	
	Max flowrate (m3/hour)	8187	8278	8495	16000
	Mean flowrate (m3/hour)	5545	7382	7362	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	37173	34751	34734	
	Mean daily abstraction rate (m3/day)	29198	24827	28255	
Dock Return Temperature	Max daily discharge temperature (C)	33	35	31	36
	Mean daily discharge temperature (C)	29	31	27	

Signed on behalf of the Operator



Dated 23-Oct-2020

Form I&S W5