

SCHEDULE 5 Notification	
Part B	
Permit Number:	BL7108IM
Name of Operator:	Tata Steel UK Ltd
Location of Facility:	Port Talbot Works
Part A details	S5N/23/39A; S5N/23/40A; S5N/23/42A
Date Part A submitted	24/07/2023 (39A); 24/07/2023 (40A); 31/07/2023 (42A)

Any more accurate information on the matters notified under Part A	• This Part B applies to Part A notifications S5N/23/39A, S5N/23/40A and S5N/23/42A for breaches at the Long Sea Outfall (LSO). • 16/07/2023 – 23/07/2023 the weekly Zinc (Zn) measured value was 5.64 mg/l (emission value of 5.44mg/l following the application of uncertainty). • 16/07/2023 – 23/07/2023 the weekly Iron (Fe) measured value was 10.95 mg/l (emission value of 10.45 mg/l following the application of uncertainty). • 23/07/2023 – 31/07/2023 the weekly Zinc (Zn) measured value was 2.64 mg/l (emission value of 2.44 mg/l following the application of uncertainty). • The BOS Dust Collection (DC) water clarifier systems which removes the suspended solids (high in iron and zinc) from the converter process before returning this water back to the converters in this continuous loop/system was experiencing issues during the breach periods. • There are 3 clarifiers to serve 2 converters. During the breach period, the south clarifier was not available (shortage of resource to clean this system), so one clarifier (North and Middle Clarifier) served each converter (1 and 2) and help remove the suspended solids from the DC water returning back to plant and the DC water which also overflows to sump no.5. • High Total Suspended Solids (TSS) in the DC waters are high in iron and also zinc, which if excessive will impact sump no. 5 and also then the W1 LSO. • During the breach period, the North Clarifier failed 22nd July 2023 due to inadequate sludge pumps (which continuously remove settled DC sludge from the clarifiers to the press operated by Altrad) causing the TSS to increase in the DC water returning to plant and also the DC water which overflows to sump no.5. Breaches for notifications S5N/23/39A, S5N/23/40A were associated with this event of TSS increasing from typically below 100-200ppm to over 1400ppm shown below in table
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	<table><tr><th colspan="4">DC1 System</th><th colspan="2">DC2 System</th></tr><tr><th>Date</th><th>Time</th><th>Suspended Solids (Aim <200)</th><th>Org PO₄</th><th>Suspended Solids (Aim <200)</th><th>Org PO₄</th></tr><tr><td>07/07/2023</td><td>08:30</td><td>112</td><td>1.65</td><td>92</td><td>1.76</td></tr><tr><td>10/07/2023</td><td>08:30</td><td>142</td><td>0.39</td><td>160</td><td>0.91</td></tr><tr><td>11/07/2023</td><td>08:30</td><td>122</td><td>1.97</td><td>146</td><td>3.78</td></tr><tr><td>12/07/2023</td><td>09:00</td><td>156</td><td>1.72</td><td>190</td><td>3.03</td></tr><tr><td>13/07/2023</td><td>10:00</td><td>295</td><td>1.54</td><td>1407</td><td>1.09</td></tr><tr><td>17/07/2023</td><td>08:30</td><td>210</td><td>4.56</td><td>139</td><td>0.74</td></tr><tr><td>18/07/2023</td><td>08:30</td><td></td><td></td><td>269</td><td>1.32</td></tr><tr><td>19/07/2023</td><td>08:30</td><td></td><td></td><td>124</td><td>1.99</td></tr><tr><td>20/07/2023</td><td>08:30</td><td></td><td></td><td>97</td><td>2.07</td></tr><tr><td>21/07/2023</td><td>08:00</td><td></td><td></td><td>129</td><td>2.07</td></tr><tr><td>23/07/2023</td><td>13:00</td><td>141</td><td></td><td>141</td><td></td></tr><tr><td>24/07/2023</td><td>09:00</td><td>148</td><td>3.16</td><td>132</td><td>1.88</td></tr></table> • • After the North Clarifier failed, we were in a position of only having one clarifier to remove TSS for a 2 converter operation which led to the slight breach relating to S5N/23/40A notification	DC1 System				DC2 System		Date	Time	Suspended Solids (Aim <200)	Org PO ₄	Suspended Solids (Aim <200)	Org PO ₄	07/07/2023	08:30	112	1.65	92	1.76	10/07/2023	08:30	142	0.39	160	0.91	11/07/2023	08:30	122	1.97	146	3.78	12/07/2023	09:00	156	1.72	190	3.03	13/07/2023	10:00	295	1.54	1407	1.09	17/07/2023	08:30	210	4.56	139	0.74	18/07/2023	08:30			269	1.32	19/07/2023	08:30			124	1.99	20/07/2023	08:30			97	2.07	21/07/2023	08:00			129	2.07	23/07/2023	13:00	141		141		24/07/2023	09:00	148	3.16	132	1.88
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Measures taken, or intended to be taken, to prevent a recurrence of the incident	• New DC sludge pumps are to be installed and commissioned October 2023 to help removal of sludge from the clarifiers and help maintain TSS in the DC waters returning back to plant and overflowing to sump no.5 and impacting W1 • DC water TSS are monitored daily to help understand the risk. • During period of elevated TSS in the DC water and sump no.5 the effluent can and was diverted to Nautilus to help drop out the TSS and reduce the risk of breaches of iron and zinc																																																																																				
Measures to be taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	• Please see above.																																																																																				
The dates of any Part A notifications in the previous 24 months	Please see attached Excel sheet.																																																																																				

Name*	Neil Rowles
Post	Lead Water & Legionella
Signature	
Date	08/09/2023
Reference	S5N/23/39B