

Year	2021
Quarter	4

First day of quarter 01/10/2021

Last day of quarter 31/12/2021

Date of first Sunday for which 4 or more days in the following week fall within the quarter 03/10/2021

Date of last Sunday for which 4 or more days in the following week fall within the quarter 26/12/2021

Number of weeks within quarter 13

W1 Concentrations

Weeks run from Sunday to the following Saturday - all weeks with four or more days within the quarter are reported

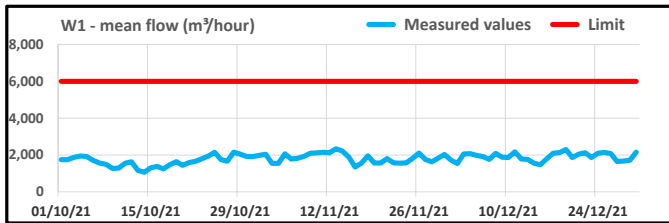
	Weekly average concentrations in mg/l, reported as measured (uncertainty not taken into account)														
Parameter	Suspended Solids	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	Ammonia + Nitrate + Nitrite	Iron	Lead	Zinc	Nickel	Total Chromium	Hydrocarbons
Limit	150	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2	0.5	0.5	5
Week commencing															
03 October 2021	31	3		0.08	1.8	0.09	0.026	0.09	9	1.3	0.09	0.4	0.09	0.09	2.7
10 October 2021	35	14		0.07	2.7	0.09	0.021	0.09	18	1.1	0.09	1.2	0.12	0.09	1.6
17 October 2021	35	0		0.08	2.0	0.09	0.005	0.09	12	1.8	0.09	1.0	0.09	0.09	1.5
24 October 2021	35	0		0.08	1.2	0.09	0.013	0.09	9	1.3	0.09	1.3	0.09	0.09	2.5
31 October 2021	31	0		0.10	2.5	0.09	0.007	0.09	21	2.0	0.09	1.1	0.09	0.09	3.1
07 November 2021	23	9		0.07	2.1	0.09	0.008	0.09	12	1.8	0.08	0.9	0.10	0.08	2.2
14 November 2021	29	17		0.07	1.8	0.08	0.006	0.11	15	0.9	0.09	0.8	0.09	0.09	2.2
21 November 2021	23	0		0.08	1.3	0.04	0.005	0.06	15	1.2	0.09	1.0	0.09	0.09	3.0
28 November 2021	40	82		0.07	2.1	0.04	0.013	0.02	20	3.0	0.12	1.3	0.09	0.08	4.9
05 December 2021	35	44		0.10	1.0	0.07	0.005	0.02	14	2.5	0.09	1.0	0.08	0.09	9.5
12 December 2021	41	31		0.08	0.1	0.04	0.001	0.07	20	0.9	0.06	0.8	0.06	0.06	4.0
19 December 2021	40	62		0.07	2.3	0.07	0.002	0.01	17	1.6	0.08	1.4	0.08	0.08	4.7
26 December 2021	37	48		0.09	1.8	0.03	0.003	0.01	16	1.0	0.09	1.4	0.09	0.09	2.6
Number > Limit	0	0		1	0	0	0	0	0	0	0	0	0	0	1

See below

The weekly average sulphide result for w/c 31/10/21 was 0.103 mg/l, as reported in this table, but after subtracting uncertainty this was not above the emission limit and so it has not been reported as a breach.

W1 Flow

		Average flow	
Daily mean	Minimum	1,063	m³/hour
	Maximum	2,338	m³/hour
	Limit	6,000	m³/hour
	No. > Limit	0	



Date	Parameter Average flow	
	Units	m³/hour
	Limit	6,000
01 October 2021	1,744	6,000
02 October 2021	1,743	6,000
03 October 2021	1,869	6,000
04 October 2021	1,949	6,000
05 October 2021	1,918	6,000
06 October 2021	1,703	6,000
07 October 2021	1,565	6,000
08 October 2021	1,496	6,000
09 October 2021	1,270	6,000
10 October 2021	1,286	6,000
11 October 2021	1,554	6,000
12 October 2021	1,634	6,000
13 October 2021	1,166	6,000
14 October 2021	1,063	6,000
15 October 2021	1,305	6,000
16 October 2021	1,382	6,000
17 October 2021	1,250	6,000
18 October 2021	1,475	6,000
19 October 2021	1,641	6,000
20 October 2021	1,443	6,000
21 October 2021	1,586	6,000
22 October 2021	1,660	6,000
23 October 2021	1,801	6,000
24 October 2021	1,935	6,000
25 October 2021	2,147	6,000
26 October 2021	1,748	6,000
27 October 2021	1,660	6,000
28 October 2021	2,159	6,000
29 October 2021	2,047	6,000
30 October 2021	1,923	6,000
31 October 2021	1,913	6,000
01 November 2021	1,985	6,000
02 November 2021	2,039	6,000
03 November 2021	1,547	6,000
04 November 2021	1,550	6,000
05 November 2021	2,061	6,000
06 November 2021	1,780	6,000
07 November 2021	1,821	6,000
08 November 2021	1,925	6,000
09 November 2021	2,102	6,000
10 November 2021	2,118	6,000
11 November 2021	2,149	6,000
12 November 2021	2,123	6,000
13 November 2021	2,338	6,000
14 November 2021	2,217	6,000
15 November 2021	1,890	6,000
16 November 2021	1,351	6,000
17 November 2021	1,567	6,000
18 November 2021	1,952	6,000
19 November 2021	1,567	6,000
20 November 2021	1,561	6,000
21 November 2021	1,804	6,000
22 November 2021	1,571	6,000
23 November 2021	1,554	6,000
24 November 2021	1,569	6,000
25 November 2021	1,824	6,000
26 November 2021	2,106	6,000
27 November 2021	1,756	6,000
28 November 2021	1,634	6,000
29 November 2021	1,828	6,000
30 November 2021	2,032	6,000
01 December 2021	1,722	6,000
02 December 2021	1,542	6,000
03 December 2021	2,060	6,000
04 December 2021	2,073	6,000
05 December 2021	1,979	6,000
06 December 2021	1,911	6,000
07 December 2021	1,765	6,000
08 December 2021	2,090	6,000
09 December 2021	1,879	6,000
10 December 2021	1,861	6,000
11 December 2021	2,170	6,000
12 December 2021	1,782	6,000
13 December 2021	1,765	6,000
14 December 2021	1,558	6,000
15 December 2021	1,475	6,000
16 December 2021	1,801	6,000
17 December 2021	2,095	6,000
18 December 2021	2,127	6,000
19 December 2021	2,297	6,000
20 December 2021	1,863	6,000
21 December 2021	2,044	6,000
22 December 2021	2,127	6,000
23 December 2021	1,866	6,000
24 December 2021	2,096	6,000
25 December 2021	2,136	6,000
26 December 2021	2,079	6,000
27 December 2021	1,651	6,000
28 December 2021	1,672	6,000
29 December 2021	1,713	6,000
30 December 2021	2,158	6,000
31 December 2021	2,120	

W3 Concentrations

Weeks run from Sunday to the following Saturday - all weeks with four or more days within the quarter are reported.

Only sampled when flow present (generally after heavy rain).

Weekly average concentrations in mg/l, reported as measured (uncertainty not taken into account)		
Parameter	Suspended Solids	Hydrocarbons
Limit	200	20
Week commencing		
03 October 2021	26	9.7
10 October 2021	18	5.2
17 October 2021	18	8.1
24 October 2021	24	6.0
31 October 2021	29	11.1
07 November 2021	21	7.0
14 November 2021	12	4.7
21 November 2021	22	7.0
28 November 2021	27	10.0
05 December 2021	17	9.5
12 December 2021	23	6.8
19 December 2021	19	9.3
26 December 2021	26	5.1
Number > Limit	0	0

W4 Concentrations

Only sampled when flow present (generally after heavy rain).

Values reported as measured (uncertainty not taken into account)					
Parameter	pH	Suspended solids (mg/l)	Total Fe (mg/l)	Soluble Fe (mg/l)	Oil and grease
Date					
01 October 2021	9.9	408	11.0	<0.1	<0.1
04 October 2021	9.5	484	2.5	0.2	1.9
05 October 2021	9.7	264	3.3	0.3	0.1
20 October 2021	11.4	170	0.8	0.4	1.5
21 October 2021	9.7	42	1.4	0.9	3.8
25 October 2021	10.4	60	2.2	0.1	0.4
26 October 2021	10.1	24	1.1	<0.1	0.5
29 October 2021	10.7	178	0.9	0.2	0.8
01 November 2021	9.7	56	0.9	0.3	4.2
07 December 2021	9.2	18	0.7	0.5	1.9

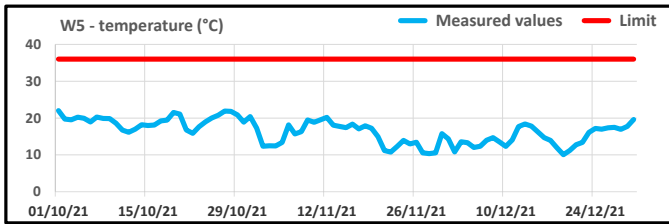
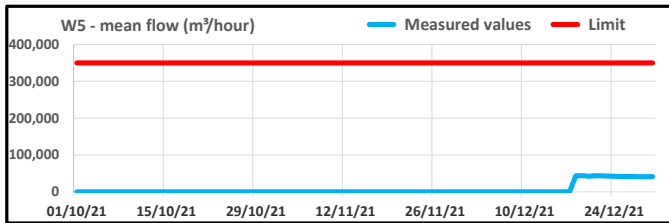
W5 Concentrations

Suspended solids concentrations in mg/l, reported as measured (uncertainty not taken into account)			
Parameter	Inlet	Outlet	Difference
Limit			20
Date			
05 October 2021	4	3	- *
12 October 2021	4	4	- *
19 October 2021	2	10	8
28 October 2021	2	10	8
04 November 2021	2	12	10
11 November 2021	2	4	2
18 November 2021	12	16	4
25 November 2021	2	5	3
02 December 2021	10	8	- *
09 December 2021	2	14	12
16 December 2021	6	14	8
22 December 2021	4	10	6
30 December 2021	48	22	- *
Number > Limit			0

* Difference is compliant where inlet concentrations exceed outlet concentrations.

W5 Flow and Temperature

Daily mean	Daily mean flow		Temperature	
	Minimum	41,183 m ³ /hour	10	°C
	Maximum	43,763 m ³ /hour	22	°C
	Limit	350,000 m ³ /hour	36	°C
	No. > Limit	0	0	



* Part A S5N/21/66A submitted with regards to W5 flow meter failure.

Date	Parameter		Average flow		Temperature	
	Units	Limit	m ³ /hour	°C		
			350,000	36		
01 October 2021	Nil*		350,000	22.0	36	
02 October 2021	Nil*		350,000	19.7	36	
03 October 2021	Nil*		350,000	19.5	36	
04 October 2021	Nil*		350,000	20.2	36	
05 October 2021	Nil*		350,000	19.9	36	
06 October 2021	Nil*		350,000	18.9	36	
07 October 2021	Nil*		350,000	20.3	36	
08 October 2021	Nil*		350,000	19.9	36	
09 October 2021	Nil*		350,000	19.9	36	
10 October 2021	Nil*		350,000	18.6	36	
11 October 2021	Nil*		350,000	16.7	36	
12 October 2021	Nil*		350,000	16.1	36	
13 October 2021	Nil*		350,000	17.0	36	
14 October 2021	Nil*		350,000	18.2	36	
15 October 2021	Nil*		350,000	18.0	36	
16 October 2021	Nil*		350,000	18.1	36	
17 October 2021	Nil*		350,000	19.2	36	
18 October 2021	Nil*		350,000	19.4	36	
19 October 2021	Nil*		350,000	21.5	36	
20 October 2021	Nil*		350,000	21.1	36	
21 October 2021	Nil*		350,000	16.8	36	
22 October 2021	Nil*		350,000	15.8	36	
23 October 2021	Nil*		350,000	17.7	36	
24 October 2021	Nil*		350,000	19.0	36	
25 October 2021	Nil*		350,000	20.0	36	
26 October 2021	Nil*		350,000	20.8	36	
27 October 2021	Nil*		350,000	21.9	36	
28 October 2021	Nil*		350,000	21.8	36	
29 October 2021	Nil*		350,000	20.8	36	
30 October 2021	Nil*		350,000	18.9	36	
31 October 2021	Nil*		350,000	20.4	36	
01 November 2021	Nil*		350,000	17.3	36	
02 November 2021	Nil*		350,000	12.4	36	
03 November 2021	Nil*		350,000	12.5	36	
04 November 2021	Nil*		350,000	12.4	36	
05 November 2021	Nil*		350,000	13.4	36	
06 November 2021	Nil*		350,000	18.1	36	
07 November 2021	Nil*		350,000	15.7	36	
08 November 2021	Nil*		350,000	16.3	36	
09 November 2021	Nil*		350,000	19.5	36	
10 November 2021	Nil*		350,000	18.8	36	
11 November 2021	Nil*		350,000	19.5	36	
12 November 2021	Nil*		350,000	20.2	36	
13 November 2021	Nil*		350,000	18.1	36	
14 November 2021	Nil*		350,000	17.7	36	
15 November 2021	Nil*		350,000	17.4	36	
16 November 2021	Nil*		350,000	18.4	36	
17 November 2021	Nil*		350,000	17.1	36	
18 November 2021	Nil*		350,000	17.9	36	
19 November 2021	Nil*		350,000	17.2	36	
20 November 2021	Nil*		350,000	14.9	36	
21 November 2021	Nil*		350,000	11.2	36	
22 November 2021	Nil*		350,000	10.8	36	
23 November 2021	Nil*		350,000	12.3	36	
24 November 2021	Nil*		350,000	13.9	36	
25 November 2021	Nil*		350,000	13.0	36	
26 November 2021	Nil*		350,000	13.4	36	
27 November 2021	Nil*		350,000	10.5	36	
28 November 2021	Nil*		350,000	10.4	36	
29 November 2021	Nil*		350,000	10.5	36	
30 November 2021	Nil*		350,000	15.8	36	
01 December 2021	Nil*		350,000	14.4	36	
02 December 2021	Nil*		350,000	10.8	36	
03 December 2021	Nil*		350,000	13.6	36	
04 December 2021	Nil*		350,000	13.3	36	
05 December 2021	Nil*		350,000	12.0	36	
06 December 2021	Nil*		350,000	12.4	36	
07 December 2021	Nil*		350,000	14.0	36	
08 December 2021	Nil*		350,000	14.7	36	
09 December 2021	Nil*		350,000	13.5	36	
10 December 2021	Nil*		350,000	12.3	36	
11 December 2021	Nil*		350,000	14.0	36	
12 December 2021	Nil*		350,000	17.7	36	
13 December 2021	Nil*		350,000	18.4	36	
14 December 2021	Nil*		350,000	17.8	36	
15 December 2021	Nil*		350,000	16.3	36	
16 December 2021	Nil*		350,000	14.7	36	
17 December 2021	Nil*		350,000	13.9	36	
18 December 2021		43,590	350,000	11.9	36	
19 December 2021		43,763	350,000	10.1	36	
20 December 2021		42,341	350,000	11.2	36	
21 December 2021		43,611	350,000	12.8	36	
22 December 2021		43,429	350,000	13.4	36	
23 December 2021		42,923	350,000	16.1	36	
24 December 2021		42,377	350,000	17.2	36	
25 December 2021		41,622	350,000	17.0	36	
26 December 2021		41,471	350,000	17.4	36	
27 December 2021		41,388	350,000	17.5	36	
28 December 2021		41,271	350,000	16.9	36	
29 December 2021		41,183	350,000	17.7	36	
30 December 2021		41,298	350,000	19.6	36	
31 December 2021		41,337	350,000	19.9	36	
			350,000		36	
			350,000		36	
			350,000		36	