

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

August 2023

Operator: Valero Pembrokehire Oil Terminal Limited

Location: Main Road, Waterston, Pembrokehire, SA73 1DR

Permit Number: EPR/BK1341IN

Variation Number: EPR/BK1341IN/V007 **Release Point: C**

	Flow (m ³ /day)	Temperature (°C)	pH	BOD (mg/l)	Suspended Solids (mg/l)	Ammoniacal Nitrogen (mg/l)	Total Oil (mg/l)
Limit	10,000	30	max 9.0 min 6.0	50	70	5	30
Day							
1	528	16	7.3	2			
2	264	14	7.3				
3	482	13	7.3	6	8		
4	466	14	7.3				
5	472	18	7.1				
6	733	18	7.2				
7	299	17	7.4		5	<0.1	<1
8	282	14	7.4	2			
9	1,771	4	7.4				
10	680	10	7.4	4	10		
11	196	15	7.4				
12	113	10	7.4				
13	70	10	7.4				
14	989	10	7.6		6	<0.1	<1
15	1,198	17	7.4	4			
16	961	12	7.2				
17	629	17	7.5	3	5		
18	324	11	7.2				
19	592	14	7.1				
20	680	14	7.1				
21	332	14	7.2		6	<0.1	<1
22	369	17	7.4	4			
23	301	14	7.5				
24	191	12	7.3	4	6		
25	115	12	7.2				
26	64	20	7.2				
27	64	20	7.2				
28	59	14	7.2		3	<0.1	<1
29	40	14	7.2	5			
30	63	16	7.6				
31	23	15	7.6	5	6		
Maximum	1,771	20	7.6	6	10	0.1	1
Minimum	23	4	7.1	2	3	0.1	1
Flow- Weighted Average	-	14	7.3	4	7	0.1	1

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Name

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Release Point: C

	COD (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)
Limit	50	1	7.5	0.25
Day				
1				
2				
3				
4				
5				
6				
7	35	<0.1	<0.1	<0.01
8				
9				
10				
11				
12				
13				
14	<1	<0.1	<0.1	<0.01
15				
16				
17				
18				
19				
20				
21	17	<0.1	<0.1	<0.01
22				
23				
24				
25				
26				
27				
28	27	<0.1	<0.1	<0.01
29				
30				
31				
Maximum	35	0.1	0.1	0.01
Minimum	17	0.1	0.1	0.01
Flow- Weighted Average	11	0.1	0.1	0.01

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	Cadmium		Mercury		Lead	Copper	Iron	Nickel	Zinc	Chromium
	(ug/l)	(g/day)	(ug/l)	(g/day)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Limit	14	0.46	2	0.06	120	30	1200	30	150	10
		(kg/mth)		(kg/mth)						
Date										
Week 1	<0.05	0.015	<0.1	0.299	<1.0	<3	89	0.5	3	<2.0
Week 2	<0.05	0.049	<0.1	0.989	1	<3	206	1.6	1	<2.0
Week 3	<0.05	0.017	<0.1	0.332	<1.0	<3	191	1.5	1	<2.0
Week 4	<0.05	0.003	<0.1	0.059	<1.0	<3	239	0.5	2	<2.0
Week 5										
Maximum	0.05	0.049	0.1	0.989	1.0	9	239	1.6	3	2.0
Minimum	0.05	0.003	0.1	0.059	1.0	3	89	0.5	1	2.0
Total		0.001		0.013						
Flow-Weighted Average			0.1		1.0	3	183	1	1	2

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	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
Day	Limit	3500	35	50	0.4	27	
1	1,686	2	1	<0.1	16	7.2	<1
2	1,565						
3	417	2			13	7.3	
4	342						
5	513						
6	959						
7	920						
8	1,177	5	3	<0.1	14	7.3	<1
9	1,368						
10	1,326	4			17	7.1	
11	1,875						
12	1,188						
13	1,116						
14	1,180						
15	1,522	2	3	<0.1	18	7	<1
16	1,797						
17	747	1			18	6.6	
18	51						
19	22						
20	0						
21	0						
22	0						
23	0						
24	317	2			19	6.9	<1
25	308						
26	862						
27	1,027						
28	1,269						
29	1,087	3	5	<0.1	14	6.8	<1
30	781						
31	733	3			15	6.7	
Maximum	1,875	5	5	0.1	19	7.3	1
Minimum	0	1	1	0.1	13	6.6	1
Flow- Weighted Average	-	3	3	0.10		7.0	1

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Release Point: D

	Cadmium		Mercury	
	(ug/l)	(g/day)	(ug/l)	(g/day)
Limit	14	0.46		0.06
		(kg/mth)		(kg/mth)
Date				
Week 1	<0.05	1.686	<0.1	0.169
Week 2	<0.05	1.177	<0.1	0.118
Week 3	<0.05	1.522	<0.1	0.152
Week 4	no discharge			
Week 5	<0.05	1.087	<0.2	0.109
Maximum	0.05	1.686	0.2	0.169
Minimum	0.05	1.087	0.1	0.109
Total		0.042		0.004
Flow-Weighted Average	-	0.05		0.1

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Release Point: D

	Lead (ug/l)	Copper (ug/l)	Iron (ug/l)	Nickel (ug/l)	Zinc (ug/l)	Chromium (ug/l)
Limit	50	40	1400	10	40	
Day						
1	<1.0	5	92	1	4	<2.0
2						
3						
4						
5						
6						
7						
8	<1.0	<3	164	1.4	3	<2.0
9						
10						
11						
12						
13						
14						
15	<1.0	3	70	0.8	3	<2.0
16						
17						
18						
19						
20						
21						
22	No flow, no effluent samples analysed					
23						
24						
25						
26						
27						
28						
29	<1.0	<3	95	1	4	<2.0
30						
31						
Maximum	1.0	5	164	1.4	4	2.0
Minimum	1.0	3	70	1.0	3	2.0
Total (kg/mth)	0.04	0.02	0.6	0.01	0.02	0.08
Flow-Weighted Average	1	4	102	1.0	4	2

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