

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

February 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	248	7	7.4				
2	141	7	7.4	2	6		
3	135	10	7.5				
4	116	10	7.3				
5	93	10	7.4				
6	89	10	7.2		4	<0.1	<1
7	84	14	7.5	4			
8	75	12	7.4				
9	70	7	7.2	2	4		
10	59	9	7.3				
11	51	15	7.4				
12	34	16	7.3				
13	289	16	7.4		4	<0.1	<1
14	562	10	7.4	1			
15	115	9	7.4				
16	102	12	7.5	1	4		
17	116	10	7.5				
18	312	14	7.4				
19	0						
20	0						
21	0						
22	0						
23	0						
24	0						
25	0						
26	0						
27	0						
28	268	10	7.2	1	2		<1
Maximum	562	16	7.5	4	6	0.1	1
Minimum	0	7	7.2	1	2	0.1	1
Flow-Weighted Average	-	11	7.4	1	4	0.1	1

Signed on behalf of the Operator
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	9	<0.1	<0.1	<0.01
7				
8				
9				
10	11			
11				
12				
13	2	<0.1	<0.1	<0.01
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28	7	<0.1	<0.1	<0.01
29				
30				
31				
Maximum	11	0.1	0.1	0.01
Minimum	2	0.1	0.1	0.01
Flow- Weighted Average	6	0.1	0.1	0.01

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Date	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)						
Week 1	<0.05	0.0045	<0.1	0.009	<1.0	<3	434	1.1	39	2.3
Week 2	<0.05	0.0145	<0.1	0.029	<1.0	<3	582	1.4	42	2.7
Week 3										
Week 4										
Week 5										
Maximum	0.05	0.0145	0.1	0.029	1.0	3	582	1.4	42	2.7
Minimum	0.05	0.0045	0.1	0.009	1.0	3	434	1.1	39	2.3
Total		0.0003		0.0005						
Flow-Weighted Average	0.05		0.1		1.4	3	547	1	41	3

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Permit Number: EPR/BK1341IN Variation Number: EPR/BK1341IN/V007 **Release Point: D**

Day	Limit	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
		3500	35	50	0.4	27		
1		1,236						
2		1,540	2			5	7.4	
3		1,567						
4		1,478						
5		1,531						
6		1,422						
7		1,279	12	4	<0.1	14	7.3	<1
8		883						
9		877	29			4	7.1	
10		167						
11		149						
12		147						
13		154						
14		165	<1	2	<0.1	12	6.9	<1
15		141						
16		49						
17		479						
18		663						
19		666						
20		731	8		<0.1	14	8.3	<1
21		697	7	3	<0.1	15	7.3	<1
22		712						
23		751	4			15	7.3	
24		753						
25		751						
26		751						
27		750						
28		759	3		<0.1	13	7.2	<1
29								
30								
31								
Maximum		1,567	29	4	0.1	15	8.3	1
Minimum		49	1	2	0.1	4	6.9	1
Flow-Weighted Average		-	9	4	0.10		7.4	1

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Release Point: D

Date	Cadmium		Mercury	
	Limit	(ug/l)	(g/day)	(g/day)
	14	0.46		0.06
		(kg/mth)		(kg/mth)
Week 1	<0.05	1.279	<0.1	0.128
Week 2	<0.05	0.165	<0.1	0.017
Week 3	<0.05	0.697	<0.1	0.070
Week 4	<0.05	0.759	<0.1	0.076
Week 5				
Maximum	0.05	1.279	0.1	0.128
Minimum	0.05	0.165	0.1	0.017
Total		0.0225		0.002
Flow-Weighted Average	-	0.05		0.1

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	Lead (ug/l)	Copper (ug/l)	Iron (ug/l)	Nickel (ug/l)	Zinc (ug/l)	Chromium (ug/l)
Day	Limit	50	40	1400	10	40
1						
2						
3						
4						
5						
6						
7	3.8	4	474	1.1	45	<2.0
8						
9						
10						
11						
12						
13						
14	<1.0	<3	149	<0.5	68	2.3
15						
16						
17						
18						
19						
20						
21	<1.0	<3	109	<0.5	55	2.8
22						
23						
24						
25						
26						
27						
28	<1.0	<3	102	<0.5	21	<2.0
29						
30						
31						
Maximum	3.8	4	474	1.1	68	2.8
Minimum	1.0	3	102	0.5	21	2.0
Total (kg/mth)	0.050	0.08	6.08	0.017	0.95	0.05
Flow-Weighted Average	2	3	270	0.8	42	2

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