

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

**October 2023**

Operator: Valero Pembrokeshire Oil Terminal Limited

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

Permit Number: EPR/BK1341IN

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

	Flow (m <sup>3</sup> /day)	Temperature (°C)	pH	BOD (mg/l)	Suspended Solids (mg/l)	Ammoniacal Nitrogen (mg/l)	Total Oil (mg/l)
Day	Limit <b>10,000</b>	<b>30</b>	<b>max 9.0 min 6.0</b>	<b>50</b>	<b>70</b>	<b>5</b>	<b>30</b>
1	513	10	7.0				
2	2,259	10	7.1		12	<0.1	4.4
3	1,327	14	7.4	2			
4	1,209	9	7.1				
5	780	14	7.3	2	10		
6	577	14	7.2				
7	487	20	7.1				
8	460	20	7.1				
9	288	16	7.0		13	<0.1	<1
10	296	14	7.6	1			
11	287	15	7.3				
12	797	10	7.5	3	11		
13	897	14	7.6				
14	225	10	7.1				
15	4,311	10	7.1				
16	3,293	10	7.1		12	<0.1	4.0
17	2,701	14	7.2	4			
18	1,519	12	7.7				
19	711	13	7.1	1	18		
20	754	13	7.4				
21	1,853	10	7.1				
22	1,640	10	7.1				
23	936	9	6.8		4	<0.1	<1
24	1,155	9	7.4	1			
25	2,684	14	7.3				
26	1,891	16	7.3	2	8		
27	372	15	7.2				
28	525	10	7.1				
29	601	10	7.1				
30	1,000	10	7.1		8	<0.1	<1
31	1,010	16	7.2	1			
Maximum	4,311	20	7.7	4	18	0.1	4.4
Minimum	225	9	6.8	1	4	0.1	1
Flow-Weighted Average	-	13	7.2	2	11	0.1	1

Signed on behalf of the Operator  
Name

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

**October 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**

	COD (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)
<b>Limit</b>	<b>50</b>	<b>1</b>	<b>7.5</b>	<b>0.25</b>
Day				
1				
2	14	<0.1	<0.1	<0.01
3				
4				
5				
6				
7				
8				
9	33	<0.1	<0.1	<0.01
10				
11				
12				
13				
14				
15				
16	16	<0.1	<0.1	<0.01
17				
18				
19				
20				
21				
22				
23	20	<0.1	<0.1	<0.01
24				
25				
26				
27				
28				
29				
30	4	<0.1	<0.1	<0.01
31				
Maximum	33	0.1	0.1	0.01
Minimum	4	0.1	0.1	0.01
Flow- Weighted Average	15	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)
<b>Limit</b>	<b>14</b>	<b>0.46</b>	<b>2</b>	<b>0.06</b>	<b>120</b>	<b>30</b>	<b>1200</b>	<b>30</b>	<b>150</b>	<b>10</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>						
Week 1	<0.05	0.1130	<0.1	2.259	<1.0	<3	233	<0.5	4	<2.0
Week 2	<0.05	0.0144	<0.1	0.288	<1.0	<3	167	<0.5	<4	<2.0
Week 3	<0.05	0.1647	<0.1	3.293	<1.0	<3	189	<0.5	5	<2.0
Week 4	<0.05	0.0468	<0.1	0.936	<1.0	<3	108	1.2	4	<2.0
Week 5	<0.05	0.0500	<0.1	1.000	<1.0	<3	149	0.6	<4	<2.0
Maximum	0.05	0.165	0.1	3.293	1.0	3	233	1.2	5	2.0
Minimum	0.05	0.014	0.1	0.288	1.0	3	108	0.5	4	2.0
Total		0.002		0.048						
Flow-Weighted Average			0.1		1.0	3	186	1	4	2

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

Day	Limit	Flow (m <sup>3</sup> /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
		<b>3500</b>	<b>35</b>	<b>50</b>	<b>0.4</b>	<b>27</b>		
1		511						
2		1,152						
3		1,619	1	4	<0.1	15	6.6	<1
4		2,516						
5		2,310	<1			17	7.1	
6		2,043						
7		2,018						
8		1,881						
9		251						
10		214	2	1	<0.1	14	7.1	<1
11		221						
12		850	<1			16	6.7	
13		1,488						
14		3,341						
15		3,049						
16		2,744						
17		1,078	3	2	<0.1	14	7.4	<1
18		1,895						
19		2,323	1			14	7.0	
20		1,757						
21		2,242						
22		1,572						
23		1,209						
24		1,624	<1	1	<0.1	13	6.9	<1
25		1,970						
26		2,884	1			17	7.0	
27		2,838						
28		1,917						
29		2,516						
30		2,328						
31		2,247	<1	1	<0.1	16	7.1	<1
Maximum		3,341	3	4	0.1	17	7.4	1
Minimum		214	1	1	0.1	13	6.6	1
Flow- Weighted Average		-	1	2	0.10		7.0	1

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Variation Number: EPR/BK1341IN/V007

**Release Point: D**

Date	Cadmium		Mercury	
	(ug/l)	(g/day)	(ug/l)	(g/day)
<b>Limit</b>	<b>14</b>	<b>0.46</b>		<b>0.06</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>
Week 1	<0.05	1.619	<0.1	0.162
Week 2	<0.05	0.214	<0.1	0.021
Week 3	<0.05	1.078	<0.1	0.108
Week 4	<0.05	1.624	<0.1	0.162
Week 5	<0.05	2.247	<0.1	0.225
Maximum	0.05	2.247	0.1	0.225
Minimum	0.05	0.214	0.1	0.021
Total		0.042		0.004
Flow-Weighted Average	-	0.05		0.1

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Day	Limit	Lead (ug/l)	Copper (ug/l)	Iron (ug/l)	Nickel (ug/l)	Zinc (ug/l)	Chromium (ug/l)
		50	40	1400	10	40	
1							
2							
3		<1.0	<3	60	<0.5	<4	<2.0
4							
5							
6							
7							
8							
9							
10		<1.0	<3	48	<0.5	<4	<2.0
11							
12							
13							
14							
15							
16							
17		<1.0	<3	121	<0.5	5	<2.0
18							
19							
20							
21							
22							
23							
24		<1.0	<3	68	0.5	<4	<2.0
25							
26							
27							
28							
29							
30							
31		<1.0	<3	37	<0.5	<4	<2.0
Maximum		1.0	3	121	0.5	5	2.0
Minimum		1.0	3	48	0.5	4	2.0
Total (kg/mth)		0.04	0.13	2.7	0.02	0.17	0.08
Flow-Weighted Average		1	3	64	0.5	4	2

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