

## RELEASES TO WATER

## RELEASE SUMMARY FOR THE MONTH OF

September 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 <sup>3</sup> /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	81	12	7.6				
2	57	14	7.3				
3	26	14	7.4				
4	5	19	7.3		6	<0.1	<1
5	1	20	7.3	2			
6	0	No flow, no effluent samples analysed					
7	1	11	7.5	3	12		
8	1	17	7.3				
9	1	16	7.2				
10	0	No flow, no effluent samples analysed					
11	1	17	7.5	4	9	<0.1	<1
12	1	17	7.8				
13	1	17	7.6				
14	1	14	7.6	7	12		
15	1	14	7.8				
16	1	14	7.1				
17	0	No flow, no effluent samples analysed					
18	1	14	8.0		10	<0.1	<1
19	400	14	7.5	10			
20	468	13	7.5				
21	1,068	10	7.3	5	12		
22	978	14	7.5				
23	591	15	7.9				
24	416	15	7.3				
25	837	15	7.4		8	<0.1	<1
26	673	15	7.8	8			
27	459	14	7.3				
28	523	8	7.1	4	8		
29	182	12	7.3				
30	483	10	7.0				
Maximum	1,068	20	8.0	10	12	0.1	1
Minimum	0	8	7.0	2	6	0.1	1
Flow- Weighted Average	-	14	7.5	6	10	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)
<b>Limit</b>	<b>50</b>	<b>1</b>	<b>7.5</b>	<b>0.25</b>
Day				
1				
2				
3				
4	14	<0.1	<0.1	<0.01
5				
6				
7				
8				
9				
10				
11	5	<0.1	<0.1	<0.01
12				
13				
14				
15				
16				
17				
18	17	<0.1	<0.1	<0.01
19				
20				
21				
22				
23				
24				
25	18	<0.1	<0.1	<0.01
26				
27				
28				
29				
30				
Maximum	18	0.1	0.1	0.01
Minimum	5	0.1	0.1	0.01
Flow- Weighted Average	18	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	0.0003	<0.1	0.005	<1.0	3	320	0.9	8	<2.0
Week 2	<0.05	0.0001	<0.1	0.001	<1.0	4	248	1	4	<2.0
Week 3	<0.05	0.0001	<0.1	0.001	<1.0	<3	198	<0.5	5	2.0
Week 4	<0.05	0.0419	<0.1	0.837	<1.0	3	135	1.5	<4	<2.0
Week 5										
Maximum	0.05	0.042	0.1	0.837	1.0	9	320	1.5	8	2.0
Minimum	0.05	0.000	0.1	0.001	1.0	3	135	0.9	4	2.0
Total		0.000		0.006						
Flow-Weighted Average			0.1		1.0	3	136	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		840						
2		766						
3		488						
4		116						
5		114	2	2	<0.1	20	6.7	<1
6		60						
7		102	1			20	6.6	
8		107						
9		108						
10		1,157						
11		532						
12		102	2	2	<0.1	19	6.7	<1
13		165						
14		165	2			17	6.6	
15		521						
16		124						
17		133						
18		938						
19		1,176	6	4	<0.1	14	6.9	<1
20		1,138						
21		1,488	1			14	6.8	
22		1,644						
23		1,543						
24		1,401						
25		1,579						
26		2,294	6	4	<0.1	15	7.5	<1
27		2,077						
28		2,001	1			14	7.0	
29		573						
30		447						
Maximum		2,294	6	4	0.1	20	7.5	1
Minimum		60	1	2	0.1	14	6.6	1
Flow-Weighted Average		-	3	4	0.10		6.9	1

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Permit Number: EPR/BK1341IN

Variation Number: EPR/BK1341IN/V007

**Release Point: D**

Date	Cadmium		Mercury	
	Limit	(ug/l)	(g/day)	(g/day)
	<b>14</b>	<b>0.46</b>		<b>0.06</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>
Week 1	<0.05	0.114	<0.1	0.011
Week 2	<0.05	0.102	<0.1	0.010
Week 3	<0.05	1.176	<0.1	0.118
Week 4	<0.05	2.294	<0.1	0.229
Week 5				
Maximum	0.05	2.294	0.1	0.229
Minimum	0.05	0.102	0.1	0.010
Total		0.028		0.003
Flow-Weighted Average	-	0.05		0.1

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Day	Limit	Lead (ug/l) <b>50</b>	Copper (ug/l) <b>40</b>	Iron (ug/l) <b>1400</b>	Nickel (ug/l) <b>10</b>	Zinc (ug/l) <b>40</b>	Chromium (ug/l)
1							
2							
3							
4							
5		<1.0	<3	214	<0.5	8	<2.0
6							
7							
8							
9							
10							
11							
12		<1.0	<3	161	0.8	7	<2.0
13							
14							
15							
16							
17							
18							
19		<1.0	<3	90	0.5	<4	<2.0
20							
21							
22							
23							
24							
25							
26		<1.0	<3	57	<0.5	<4	<2.0
27							
28							
29							
30							
31							
Maximum		1.0	3	214	0.8	8	2.0
Minimum		1.0	3	57	0.5	4	2.0
Total (kg/mth)		0.03	0.09	2.1	0.01	0.12	0.06
Flow-Weighted Average		1	3	75	0.5	4	2

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