

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

July 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)
Limit	10,000	30	max 9.0 min 6.0	50	70	5	30
Day							
1	Low rainfall has resulted in water levels remaining below normal operation levels throughout June. When water level is below normal operation level, there is no flow and no effluent samples are collected for analysis. The East Catch basin outlet valve was closed 1 June 2023 and reopened on 16 July.						
2							
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13							
14							
15							
16	266	17	7.3				
17	41	16	7.3		9	<0.1	<1
18	47	10	7.6	5			
19	296	17	7.4				
20	180	11	7.5	8	12		
21	84	10	7.9				
22	312	15	7.3				
23	925	15	7.1				
24	1,646	12	7.4		10	<0.1	<1
25	809	9	7.1	7			
26	488	17	7.4				
27	749	15	7.2	5	9		
28	1,414	16	7.3				
29	1,365	15	7.3				
30	1,406	15	7.3				
31	937	12	7.3		12	<0.1	<1
Maximum	1,646	17	7.9	8	12	0.1	1
Minimum	41	9	7.1	5	9	0.1	1
Flow-Weighted Average	-	14	7.4	6	10	0.1	1

Signed on behalf of the Operator  
Name

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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	Low rainfall has resulted in water levels remaining below normal operation levels throughout June. When water level is below normal operation level, there is no flow and no effluent samples are collected for analysis. The East Catch basin outlet valve was closed 1 June 2023 and reopened on 16 July.			
2				
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16				
17	48	<0.1	<0.1	<0.01
18				
19				
20				
21				
22				
23				
24	35	<0.1	<0.1	<0.01
25				
26				
27				
28				
29				
30				
31	46	<0.1	<0.1	<0.01
Maximum	48	0.1	0.1	0.01
Minimum	35	0.1	0.1	0.01
Flow- Weighted Average	39	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	No flow, no effluent samples analysed									
Week 2	No flow, no effluent samples analysed									
Week 3	<0.05	0.002	<0.1	0.041	<1.0	9	350	0.9	38	<2.0
Week 4	<0.05	0.082	<0.1	1.646	<1.0	3	880	1.1	51	2.5
Week 5	<0.05	0.047	<0.1	0.937	<1.0	<3	930	1.0	52	2.0
Maximum	0.05	0.082	0.1	1.646	1.0	9	930	1.1	52	2.5
Minimum	0.05	0.002	0.1	0.041	1.0	3	350	0.9	38	2.0
Total		0.001		0.027						
Flow-Weighted Average			0.1		1.0	3	890	1	51	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		1,790						
2		1,171						
3		1,785						
4		2,167	1	8	<0.1	18	6.5	<1
5		1,832						
6		2,778	1			19	6.8	
7		2,778						
8		2,780						
9		2,954						
10		2,998						
11		2,943	2	4	<0.1	19	6.6	<1
12		596						
13		754	1			20	6.6	
14		1,370						
15		1,838						
16		820						
17		705						
18		619	1		<0.1	19	6.8	<1
19		642						
20		579	2	4		17	6.9	
21		542						
22		514						
23		1,230						
24		1,254						
25		1,301	2	4	<0.1	14	6.7	<1
26		1,258						
27		1,546	2			15	6.9	
28		1,716						
29		1,817						
30		1,927						
31		1,686						
Maximum		2,998	2	8	0.1	20	6.9	1
Minimum		514	1	4	0.1	14	6.5	1
Flow- Weighted Average		-	2	5	0.10		6.7	1

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Variation Number: EPR/BK1341IN/V007

**Release Point: D**

Date	Cadmium		Mercury	
	Limit (ug/l)	(g/day) (kg/mth)	(ug/l)	(g/day) (kg/mth)
	<b>14</b>	<b>0.46</b>		<b>0.06</b>
Week 1	<0.05	2.167	<0.1	0.217
Week 2	<0.05	2.943	<0.1	0.294
Week 3	<0.05	0.619	<0.1	0.062
Week 4	<0.05	1.301	<0.1	0.130
Week 5				
Maximum	0.05	2.943	0.1	0.294
Minimum	0.05	0.619	0.1	0.062
Total		0.054		0.005
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		<1.0	5	230	0.7	33	<2.0
5							
6							
7							
8							
9							
10							
11		<1.0	4	320	<0.5	28	2.30
12							
13							
14							
15							
16							
17							
18		<1.0	4	221	<0.5	26	<2.0
19							
20							
21							
22							
23							
24							
25		<1.0	<3	90	0.8	24	<2.0
26							
27							
28							
29							
30							
31							
Maximum		1.0	5	320	0.8	33	2.3
Minimum		1.0	3	90	0.5	24	2.0
Total (kg/mth)		0.05	0.2	13.1	0.03	1.6	0.12
Flow-Weighted Average		1	4	241	0.6	29	2

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