

## RELEASES TO WATER

## RELEASE SUMMARY FOR THE MONTH OF

July

2022

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                  | Temperature | pH                 | BOD    | Suspended Solids | Ammoniacal Nitrogen | Total Oil |
|-----------------------|-----------------------|-------------|--------------------|--------|------------------|---------------------|-----------|
|                       | (m <sup>3</sup> /day) | (°C)        |                    | (mg/l) | (mg/l)           | (mg/l)              | (mg/l)    |
| Limit                 | 10,000                | 30          | max 9.0<br>min 6.0 | 50     | 70               | 5                   | 30        |
| Day                   |                       |             |                    |        |                  |                     |           |
| 1                     | 60                    | 14          | 7.6                |        |                  |                     |           |
| 2                     | 3                     | 14          | 7.4                |        |                  |                     |           |
| 3                     | 7                     | 14          | 7.5                |        |                  |                     |           |
| 4                     | 1                     | 9           | 7.5                |        | 8                | <0.1                | <1        |
| 5                     | 1                     | 9           | 7.2                | 6      |                  |                     |           |
| 6                     | 1                     | 8           | 7.3                |        |                  |                     |           |
| 7                     | 1                     | 8           | 7.3                | 5      | 8                |                     |           |
| 8                     | 0                     | 18          | 7.3                |        |                  |                     |           |
| 9                     | 1                     | 19          | 7.2                |        |                  |                     |           |
| 10                    | 0                     | 19          | 7.1                |        |                  |                     |           |
| 11                    | 1                     | 19          | 7.2                |        | 6                | <0.1                | <1        |
| 12                    | 1                     | 15          | 7.2                | 4      |                  |                     |           |
| 13                    | 0                     | 19          | 7.1                |        |                  |                     |           |
| 14                    | 1                     | 14          | 7.1                | 16     | 7                |                     |           |
| 15                    | 0                     | 14          | 7.1                |        |                  |                     |           |
| 16                    | 1                     | 19          | 6.9                |        |                  |                     |           |
| 17                    | 0                     | 19          | 6.9                |        |                  |                     |           |
| 18                    | 1                     | 14          | 7.1                |        | 8                | <0.1                | <1        |
| 19                    | 45                    | 19          | 7.3                | 3      |                  |                     |           |
| 20                    | 60                    | 12          | 7.6                |        |                  |                     |           |
| 21                    | 64                    | 12          | 7.5                | 2      | 6                |                     |           |
| 22                    | 67                    | 12          | 7.4                |        |                  |                     |           |
| 23                    | 67                    | 19          | 7.3                |        |                  |                     |           |
| 24                    | 1                     | 15          | 7.3                |        |                  |                     |           |
| 25                    | 301                   | 12          | 7.3                |        | 32               | <0.1                | <1        |
| 26                    | 254                   | 17          | 7.1                | 15     |                  |                     |           |
| 27                    | 140                   | 9           | 7.4                |        |                  |                     |           |
| 28                    | 116                   | 12          | 7.5                | 3      | 8                |                     |           |
| 29                    | 138                   | 19          | 7.1                |        |                  |                     |           |
| 30                    | 114                   | 19          | 7.1                |        |                  |                     |           |
| 31                    | 256                   | 19          | 7.1                |        |                  |                     |           |
| Maximum               | 301                   | 19          | 7.6                | 16     | 32               | 0.1                 | 1         |
| Minimum               | 0                     | 8           | 6.9                | 2      | 6                | 0.1                 | 1         |
| Flow-Weighted Average | -                     | 15          | 7.3                | 9      | 23               | 0.1                 | 1         |

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Variation Number: EPR/BK1341IN/V007

Release Point: C

|                              | COD<br>(mg/l) | Sulphide<br>(mg/l) | Total<br>Phenols<br>(mg/l) | Cyanide<br>(mg/l) |
|------------------------------|---------------|--------------------|----------------------------|-------------------|
| <b>Limit</b>                 | <b>50</b>     | <b>1</b>           | <b>7.5</b>                 | <b>0.25</b>       |
| Day                          |               |                    |                            |                   |
| 1                            |               |                    |                            |                   |
| 2                            |               |                    |                            |                   |
| 3                            |               |                    |                            |                   |
| 4                            | 39            | <0.1               | <0.1                       | <0.01             |
| 5                            |               |                    |                            |                   |
| 6                            |               |                    |                            |                   |
| 7                            |               |                    |                            |                   |
| 8                            |               |                    |                            |                   |
| 9                            |               |                    |                            |                   |
| 10                           |               |                    |                            |                   |
| 11                           | 27            | <0.1               | <0.1                       | <0.01             |
| 12                           |               |                    |                            |                   |
| 13                           |               |                    |                            |                   |
| 14                           |               |                    |                            |                   |
| 15                           |               |                    |                            |                   |
| 16                           |               |                    |                            |                   |
| 17                           |               |                    |                            |                   |
| 18                           | 48            | <0.1               | <0.1                       | <0.01             |
| 19                           |               |                    |                            |                   |
| 20                           |               |                    |                            |                   |
| 21                           |               |                    |                            |                   |
| 22                           |               |                    |                            |                   |
| 23                           |               |                    |                            |                   |
| 24                           |               | <0.1               | <0.1                       | <0.01             |
| 25                           | 42            |                    |                            |                   |
| 26                           |               |                    |                            |                   |
| 27                           |               |                    |                            |                   |
| 28                           |               |                    |                            |                   |
| 29                           |               |                    |                            |                   |
| 30                           |               |                    |                            |                   |
| 31                           |               |                    |                            |                   |
| Maximum                      | 48            | 0.1                | 0.1                        | 0.01              |
| Minimum                      | 27            | 0.1                | 0.1                        | 0.01              |
| Flow-<br>Weighted<br>Average | 42            | 0.001              | 0.001                      | 0.0001            |

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

|                       | 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> |            |           |             |           |            |           |
| Date                  |           |                 |          |                 |            |           |             |           |            |           |
| Week 1                | <0.05     | 0.0001          | <0.1     | 0.000           | <1.0       | <3        | 10          | <0.5      | <4         | <2.0      |
| Week 2                | <0.05     | 0.0001          | <0.1     | 0.000           | <1.0       | <3        | 10          | 1.0       | <4         | <2.0      |
| Week 3                | <0.05     | 0.0001          | <0.1     | 0.000           | <1.0       | <3        | 18          | 0.5       | <4         | 2.7       |
| Week 4                | <0.05     | 0.0151          | <0.1     | 0.030           | <1.0       | <3        | 409         | <0.5      | 4          | 3.2       |
|                       |           |                 |          |                 |            |           |             |           |            |           |
|                       |           |                 |          |                 |            |           |             |           |            |           |
| Maximum               | 0.05      |                 | 0.1      |                 | 1.0        | 3         | 409         | 1.0       | 4          | 3.2       |
| Minimum               | 0.05      |                 | 0.1      |                 | 1.0        | 3         | 10          | 0.5       | 4          | 2.0       |
| Total                 |           | 0.00012         |          | 0.0002          |            |           |             |           |            |           |
| Flow-Weighted Average | 0.05      |                 | 0.1      |                 | 1.0        | 3         | 405         | 1         | 4          | 3         |

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|                              | Flow<br>(m <sup>3</sup> /day) | Suspended<br>Solids<br>(mg/l) | BOD<br>(mg/l) | Ammoniacal<br>Nitrogen<br>(mg/l) | Temperature<br>(°C) | pH  | Oil<br>(mg/l) |
|------------------------------|-------------------------------|-------------------------------|---------------|----------------------------------|---------------------|-----|---------------|
| Limit                        | 3500                          | 35                            | 50            | 0.4                              | 27                  |     |               |
| Day                          |                               |                               |               |                                  |                     |     |               |
| 1                            | 71                            |                               |               |                                  |                     |     |               |
| 2                            | 68                            |                               |               |                                  |                     |     |               |
| 3                            | 316                           |                               |               |                                  |                     |     |               |
| 4                            | 709                           |                               |               |                                  |                     |     |               |
| 5                            | 751                           | 4                             | 4             | <0.1                             | 17                  | 7.1 | <1            |
| 6                            | 254                           |                               |               |                                  |                     |     |               |
| 7                            | 30                            | 1                             |               |                                  | 7                   | 6.7 |               |
| 8                            | 51                            |                               |               |                                  |                     |     |               |
| 9                            | 77                            |                               |               |                                  |                     |     |               |
| 10                           | 72                            |                               |               |                                  |                     |     |               |
| 11                           | 69                            |                               |               |                                  |                     |     |               |
| 12                           | 69                            | 1                             | 5             | <0.1                             | 18                  | 6.8 | <1            |
| 13                           | 70                            |                               |               |                                  |                     |     |               |
| 14                           | 77                            | 1                             |               |                                  | 17                  | 6.7 |               |
| 15                           | 369                           |                               |               |                                  |                     |     |               |
| 16                           | 325                           |                               |               |                                  |                     |     |               |
| 17                           | 203                           |                               |               |                                  |                     |     |               |
| 18                           | 151                           |                               |               |                                  |                     |     |               |
| 19                           | 239                           | 1                             | 19            | <0.1                             | 19                  | 6.9 | <1            |
| 20                           | 462                           |                               |               |                                  |                     |     |               |
| 21                           | 470                           | 3                             |               |                                  | 19                  | 7.1 |               |
| 22                           | 440                           |                               |               |                                  |                     |     |               |
| 23                           | 413                           |                               |               |                                  |                     |     |               |
| 24                           | 228                           |                               |               |                                  |                     |     |               |
| 25                           | 217                           |                               |               |                                  |                     |     |               |
| 26                           | 134                           | 3                             | 10            | <0.1                             | 17                  | 6.8 | <1            |
| 27                           | 90                            |                               |               |                                  |                     |     |               |
| 28                           | 75                            | 1                             |               |                                  | 19                  | 6.7 |               |
| 29                           | 83                            |                               |               |                                  |                     |     |               |
| 30                           | 94                            |                               |               |                                  |                     |     |               |
| 31                           | 215                           |                               |               |                                  |                     |     |               |
| Maximum                      | 751                           | 4                             | 19            | 0.1                              | 19                  | 7.1 | 1             |
| Minimum                      | 30                            | 1                             | 4             | 0.1                              | 7                   | 6.7 | 1             |
| Flow-<br>Weighted<br>Average | -                             | 3                             | 8             | 0.1                              |                     | 6.9 | 1             |

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Variation Number: EPR/BK1341IN/V007

**Release Point: D**

|                       | 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> |
| Date                  |           |                 |         |                 |
| Week 1                | <0.05     | 0.000           | <0.1    | 0.000           |
| Week 2                | <0.05     | 0.069           | <0.1    | 0.007           |
| Week 3                | <0.05     | 0.239           | <0.1    | 0.024           |
| Week 4                | <0.05     | 0.134           | <0.1    | 0.013           |
| Week 5                |           |                 |         |                 |
|                       |           |                 |         |                 |
| Maximum               | 0.05      | 0.000           | 0.1     | 0.000           |
| Minimum               | 0.05      | 0.239           | 0.1     | 0.024           |
| Total                 |           | 0.0034          |         | 0.000           |
| Flow-Weighted Average | -         | 0.05            |         | 0.1             |

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|                       | Lead<br>(ug/l) | Copper<br>(ug/l) | Iron<br>(ug/l) | Nickel<br>(ug/l) | Zinc<br>(ug/l) | Chromium<br>(ug/l) |
|-----------------------|----------------|------------------|----------------|------------------|----------------|--------------------|
| Limit                 | 50             | 40               | 1400           | 10               | 40             |                    |
| Day 1                 |                |                  |                |                  |                |                    |
| 2                     |                |                  |                |                  |                |                    |
| 3                     |                |                  |                |                  |                |                    |
| 4                     |                |                  |                |                  |                |                    |
| 5                     | <1.0           | <3               | 10             | <0.5             | <4             | 3.2                |
| 6                     |                |                  |                |                  |                |                    |
| 7                     |                |                  |                |                  |                |                    |
| 8                     |                |                  |                |                  |                |                    |
| 9                     |                |                  |                |                  |                |                    |
| 10                    |                |                  |                |                  |                |                    |
| 11                    |                |                  |                |                  |                |                    |
| 12                    | <1.0           | <3               | 109            | <0.5             | <4             | 3.7                |
| 13                    |                |                  |                |                  |                |                    |
| 14                    |                |                  |                |                  |                |                    |
| 15                    |                |                  |                |                  |                |                    |
| 16                    |                |                  |                |                  |                |                    |
| 17                    |                |                  |                |                  |                |                    |
| 18                    |                |                  |                |                  |                |                    |
| 19                    | <1.0           | 7                | 295            | <0.5             | <4             | 4.5                |
| 20                    |                |                  |                |                  |                |                    |
| 21                    |                |                  |                |                  |                |                    |
| 22                    |                |                  |                |                  |                |                    |
| 23                    |                |                  |                |                  |                |                    |
| 24                    |                |                  |                |                  |                |                    |
| 25                    |                |                  |                |                  |                |                    |
| 26                    | <1.0           | 6                | 76             | <0.5             | <4             | 2.4                |
| 27                    |                |                  |                |                  |                |                    |
| 28                    |                |                  |                |                  |                |                    |
| 29                    |                |                  |                |                  |                |                    |
| 30                    |                |                  |                |                  |                |                    |
| 31                    |                |                  |                |                  |                |                    |
| Maximum               | 1.0            | 7                | 295            | 0.5              | 4              | 4.5                |
| Minimum               | 1.0            | 3                | 10             | 0.5              | 4              | 2.4                |
| Total (kg/mth)        | 0.009          | 0.03             | 0.74           | 0.005            | 0.04           | 0.02               |
| Flow-Weighted Average | 1              | 3                | 80             | 0.5              | 4              | 2                  |

Signed on behalf of the Operator  
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