

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS (a),(b),(c)

OPERATING MODE: RFG

Operator: Valero Energy Limited

Form: LCP Concentrations

Location: Pembroke Refinery, Pembroke, SA71 5SJ

Permit/Variation Number: YP3930EX

Year 2022	LCP 373 (A3 & A4)													
	NO <sub>x</sub> (mg/Nm <sup>3</sup> )				SO <sub>2</sub> (mg/Nm <sup>3</sup> )				Dust (mg/Nm <sup>3</sup> )				CO (mg/Nm <sup>3</sup> )	
Month	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Monthly ELV
January	228	245	330	0	5	6.6	38.5	0	1	4.4	5.5	0	7	100
February	244	281	330	0	11	14.3	-	-	2	4.8	5.5	0	12	100
March	253	284	330	0	14	16.9	-	-	1	4.3	5.5	0	9	100
April	215	267	330	0	25	147.4	38.5	3	3	4.9	5.5	0	2	100
May	239	261	330	0	14	15.1	38.5	0	2	3.3	5.5	0	4	100
June	240	284	330	0	14	15.1	38.5	0	1	1.8	5.5	0	3	100
July	249	272	330	0	14	16.2	38.5	0	1	1.3	5.5	0	4	100
August	215	232	330	0	14	18.2	38.5	0	0	0.7	5.5	0	1	100
September	195	228	330	0	19	46.0	38.5	0	0	1.0	5.5	0	1	100
October	223	237	330	0	17	20.8	38.5	0	0	1.1	5.5	0	7	100
November	227	244	330	0	12	13.7	38.5	0	1	1.3	5.5	0	0	100
December	227	285	330	0	12	13.8	38.5	0	0	1.0	5.5	0	0	100
Monthly ELV Daily ELV (f)														
Annual 95th Percentile (g)	270 (439)	267			20 (439)	19.6			4 (439)	3.6			13 (439)	
Annual Percentile ELV (h)														

Note 1: LCP SO<sub>2</sub> emission limits suspended from 26th January to 7th April as per Job Aid PP-HES-JBA-0004

Note 2: LCP SO<sub>2</sub> emission limits suspended from 13th June to 26th June as per Job Aid PP-HES-JBA-0004

Note 3: LCP SO<sub>2</sub> emission limits suspended from 23rd September to 27th September as per Job Aid PP-HES-JBA-0004

Signed: SLGregory

Name: Sabrina Gregory

On behalf of the Operator Valero Energy Ltd

Date: 11/01/2023