FORM AIR 8: Report on VOC losses

Permit Number : EPR/YP3930EX

Operator : Valero Energy Ltd. Installation Location : Pembroke Refinery, Pembroke, SA71 5SJ

Parameters: VOC [following Energy Institute Protocol, except where stated]

Reporting year : 2021

Source Group	VOCs (note 1) (tonnes)	Comments (note 2)
Venting	-	Included in Flaring
Flaring	191	
Bitumen Blower	-	Not applicable
Stack Emissions	-	Included in Fuel and Gas Heaters
Fugitive Emissions	151	Leak/ no-leak factors
Solvent Processes	-	Not applicable
Gas Turbine Exhaust	0.4	
Fuel and Gas Heaters	41	
Drains	223	
API Separators	399	
Dissolved Air Flotation Units	14	
Biological Treatment Facility	-	Not applicable
Cooling Towers	5	
Waste Treatment	-	Not applicable
Maintenance Venting	-	Included in Flaring
Spills	5	
Tanks	429	
Vapour Recovery Units	0.001	
Road and Rail Loading	-	Included in Vapour Recovery Units
Other	-	Not applicable
TOTAL	1458	

Note 1: Distinguish between source groups that are not applicable or assumed zero in the comments.

Note 2: Where the IP protocol suggest alternative methods, state method(s) used. If the Operator wishes to suggest and use other methods they must obtain written agreement from Natural Resources Wales.

Signed : RDLivock Name : Richard Livock

On behalf of the Operator Valero Energy Ltd.

Date : 25/01/2022