



EPL No:	12555
Entity Name:	Cleanaway Refiners Pty Ltd
Site:	41 Kyle Street, Rutherford NSW 2320
Monitoring Frequency:	Annually & 6 Monthly (Point 24 only)
Link to NSW EPA Register:	Click Here

Discharge & Monitoring Point 2

Discharge to air Air emissions monitoring, 3.0 MW Boiler stack identified as "DP2 3MW & DP3 0.2MW Boilers" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Published Date	Report Date	Sample Date	Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed *	Lowest sample value *	Mean of sample *	Highest sample value *
17/01/2023	16/01/2023	21/11/2022	Dry gas density	kilograms per cubic metre	-	1	1	1.32	1.32	1.32
			Moisture	percent	-	1	1	9.78	9.78	9.78
			Molecular weight of stack gases	grams per gram mole	-	1	1	29.6	29.6	29.6
			Nitrogen Oxides (@8% O2)	milligrams per cubic metre	350	1	1	104	104	104
			Oxygen (O2)	percent	-	1	1	5.42	5.42	5.42
			Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	2.71	2.71	2.71
			Temperature	degrees Celsius	-	1	1	205	205	205
			Velocity	metres per second	-	1	1	4.48	4.48	4.48
			Volatile organic compounds (@8% O2)	milligrams per cubic metre	10	1	1	< 2.57	< 2.57	< 2.57
			Volumetric flowrate	normalised cubic metres per second	-	1	1	0.761	0.761	0.761

Discharge & Monitoring Point 3

Discharge to air Air emissions monitoring, 0.2 MW Boiler stack identified as "DP2 3MW & DP3 0.2MW Boilers" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Published Date	Report Date	Sample Date	Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed *	Lowest sample value *	Mean of sample *	Highest sample value *
17/01/2023	16/01/2023	21/11/2022	Dry gas density	kilograms per cubic metre	-	1	1	1.31	1.31	1.31
			Moisture	percent	-	1	1	7.28	7.28	7.28
			Molecular weight of stack gases	grams per gram mole	-	1	1	29.5	29.5	29.5
			Nitrogen Oxides (@8% O2)	milligrams per cubic metre	350	1	1	126	126	126
			Oxygen (O2)	percent	-	1	1	7.69	7.69	7.69
			Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	3.43	3.43	3.43
			Temperature	degrees Celsius	-	1	1	255	255	255
			Velocity	metres per second	-	1	1	6.36	6.36	6.36
			Volatile organic compounds (@8% O2)	milligrams per cubic metre	10	1	1	<2.22	<2.22	<2.22
			Volumetric flowrate	normalised cubic metres per second	-	1	1	0.0954	0.0954	0.0954

Discharge & Monitoring Point 5

Air emissions monitoring, Emissions from light ends scrubber (vapour recovery unit) identified as "DP5 Light Ends Scrubber" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Published Date	Report Date	Sample Date	Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed *	Lowest sample value *	Mean of sample *	Highest sample value *
17/01/2023	16/01/2023	22/11/2022	Moisture	percent	-	1	1	2.47	2.47	2.47
			Odour	OU	-	1	1	1215	1215	1215
			Polycyclic aromatic hydrocarbons	milligrams per cubic metre	-	1	1	0.146	0.146	0.146
			Temperature	degrees Celsius	-	1	1	27.7	27.7	27.7
			Volatile organic compounds	milligrams per cubic metre	20	1	1	<2.75	<2.75	<2.75
			Volumetric flowrate	normalised cubic metres per second	-	1	1	0.051	0.051	0.051

Discharge & Monitoring Point 19

Discharge to Air, Stack serving the fired heaters identified as "DP19 Fired Heaters" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Published Date	Report Date	Sample Date	Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed *	Lowest sample value *	Mean of sample *	Highest sample value *
17/01/2023	16/01/2023	23/11/2022	Dry gas density	kilograms per cubic metre	-	1	1	1.32	1.32	1.32
			Formaldehyde (@ 8% O2)	milligrams per cubic metre	-	1	1	0.816	0.816	0.816
			Hydrogen Sulfide (@ 8% O2)	milligrams per cubic metre	5	1	1	<0.16	<0.16	<0.16
			Moisture	percent	-	1	1	19.3	19.3	19.3
			Molecular weight of stack gases	grams per gram mole	-	1	1	29.5	29.5	29.5
			Nitrogen Oxides (@ 8% O2)	milligrams per cubic metre	350	1	1	159	159	159
			Odour	OU	-	1	1	3036	3036	3036
			Oxygen (O2)	percent	-	1	1	6.94	6.94	6.94
			Solid Particles (@ 8% O2)	milligrams per cubic metre	50	1	1	5.94	5.94	5.94
			Sulfur Dioxide (@ 8% O2)	milligrams per cubic metre	1360	1	1	<0.877	<0.877	<0.877
			Sulfuric acid mist and sulfur trioxide (as SO3) (@ 8% O2)	milligrams per cubic metre	100	1	1	22.6	22.6	22.6
			Temperature	degrees Celsius	-	1	1	92.4	92.4	92.4
			Velocity	metres per second	-	1	1	1.76	1.76	1.76
			Volatile organic compounds (@ 8% O2)	milligrams per cubic metre	10	1	1	<1.43	<1.43	<1.43
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.303	0.303	0.303			

Discharge & Monitoring Point 20

Discharge to Air, Hydrogen Reformer Burner identified as "DP20 Reformer" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Published Date	Report Date	Sample Date	Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed *	Lowest sample value *	Mean of sample *	Highest sample value *
17/01/2023	16/01/2023	24/11/2022	Dry gas density	kilograms per cubic metre	-	1	1	1.33	1.33	1.33
			Hydrogen Sulfide (@4% O2)	milligrams per cubic metre	-	1	1	<2.38	<2.38	<2.38
			Moisture	percent	-	1	1	14	14	14
			Molecular weight of stack gases	grams per gram mole	-	1	1	10.1	10.1	10.1
			Nitrogen Oxides (@4% O2)	milligrams per cubic metre	350	1	1	118	118	118
			Odour	OU	-	1	1	2472	2472	2472
			Oxygen (O2)	percent	-	1	1	8.92	8.92	8.92
			Solid Particles (@4% O2)	milligrams per cubic metre	10	1	1	<2.97	<2.97	<2.97
			Temperature	degrees Celsius	-	1	1	784	784	784
			Velocity	metres per second	-	1	1	10.1	10.1	10.1
			Volatile organic compounds (@4% O2)	milligrams per cubic metre	10	1	1	<2.25	<2.25	<2.25
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.225	0.225	0.225			

Discharge & Monitoring Point 24

Discharge to air Air emissions monitoring, Stack discharge point serving the Mobile Oil Regeneration Plant

Pollutant	Unit of measure	EPL Limit	No. of samples required *	No. of samples collected and analysed	Sample 1	Sample 2	Lowest sample value *	Mean of sample *	Highest sample value *	
Carbon monoxide	milligrams per cubic metre	125	2	2	32.2	21.1	21.1	26.65	32.2	
Nitrogen Oxides	milligrams per cubic metre	350	2	2	51.7	67.6	51.7	59.65	67.6	
Oxygen	percent	-	2	2	12.5	14.4	12.5	13.45	14.4	
Sulfur dioxide	milligrams per cubic metre	100	2	2	51.7	<2.86	51.7	51.7	51.7	
Temperature	degrees Celsius	-	2	2	391	419	391	405	419	
Total Solid Particles	milligrams per cubic metre	10	2	2	<3.95	<1.55	0	#DIV/0!	0	
Velocity	metres per second	-	2	2	41.2	52	41.2	46.6	52	
Volatile organic compounds	milligrams per cubic metre	20	2	2	3.28	<0.460	3.28	3.28	3.28	
Volumetric flowrate	normalised cubic metres per second	-	2	2	0.0315	0.04	0.0315	0.03575	0.04	
					30/05/2023	24/05/2023	8/05/2023	17/01/2023	16/01/2023	21/11/2022
					Published Date	Report Date	Sample Date	Published Date	Report Date	Sample Date