Permit Number : EPR/SP LP3030XA 3301LA	**Operator :** Viridor Energy Ltd
Facility : Trident Park ERF	**Form Number :** Air 9 / 27/11/2023

Reporting of periodically monitored emissions to air for the period from **1st July 2025** to **31st December 2025**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A1	Hydrogen fluoride	1 mg/m3	Average of three consecutive measurements of at least 30 minutes each	0.040 (mg/m3)	CEN TS 17340	16/10/2025 09:02 – 11:02 16/10/2025 11:10 – 13:10 16/10/2025 13:17 – 15:17	0.18
A1	Cadmium & thallium and their compounds (total)	0.02 mg/m3	Average of three consecutive measurements of at least 30 minutes each	0.001 (mg/m3)	BS EN 14385	16/10/2025 08:58 – 10:02 16/10/2025 10:19 – 11:22 16/10/2025 11:40 –12:43	0.0019
A1	Mercury and its compounds	0.02 mg/m3	Average of three consecutive measurements of at least 30 minutes each	0.014 (mg/m3)	BS EN 13211	16/10/2025 13:17– 14:19 16/10/2025 14:34 – 15:46 16/10/2025 15:59 – 17:02	0.0018
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.3 mg/m3	Average of three consecutive measurements of at least 30 minutes each	0.034 (mg/m3)	BS EN 14385	16/10/2025 08:58 – 10:02 16/10/2025 10:19 – 11:22 16/10/2025 11:40 –12:43	0.007
A1	Dioxins / Furans (I-TEQ)	0.06 ng/m3	Periodic over minimum 6 hours, maximum 8-hour period	0.022 (ng/m3)	BS EN 1948 Parts 1, 2 and 3	06/10/2025 09:19 - 15:35	0.0038
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.001 (ng/m3)	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	06/10/2025 09:19 - 15:35	0.0002

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A1	Dioxin-like PCBs (WHO-TEQ Fish)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.0001 (ng/m3)	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	06/10/2025 09:19 - 15:35	0.00001
A1	Dioxin-like PCBs (WHO-TEQ Fish)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.0001 (ng/m3)	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	06/10/2025 09:19 - 15:35	0.00001
A1	Dioxin-like PCBs (WHO-TEQ Birds)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.003 (ng/m3)	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	06/10/2025 09:19 - 15:35	0.0004
A1	Dioxins / furans (WHO-TEQ Humans / Mammals)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.020 (ng/m3)	BS EN 1948 Parts 1, 2 and 3	06/10/2025 09:19 - 15:35	0.0035
A1	Dioxins / furans (WHO-TEQ Fish)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.0118 (ng/m3)	BS EN 1948 Parts 1, 2 and 3	06/10/2025 09:19 - 15:35	0.0041
A1	Dioxins / furans (WHO-TEQ Birds)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.023 (ng/m3)	BS EN 1948 Parts 1, 2 and 3	06/10/2025 09:19 - 15:35	0.0074

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A1	Polybrominated dibenzo-dioxins and furans	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.001 (ng/m3)	Method based on procedural requirements of EN 1948	06/10/2025 09:19 - 15:35	0.0002

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
	Poly-cyclic aromatic hydrocarbons (PAHs)			**Results (ug/m3)**			
A1	Total	No limit applies	periodic over minimum 6 hours, maximum 8 hour period	0.16	BS ISO 11338-1 and BS ISO 1138-2	Tested in Biannual 2 monitoring (annual requirement)	74%
A1	Anthanthrene	No limit applies		<0.0011			212.2%
A1	Benzo{a}anthracene	No limit applies		<0.0011			212.2%
A1	Benzo[b]fluoranthene	No limit applies		<0.0011			212.2%
A1	Benzo[k]fluoranthene	No limit applies		<0.0011			212.2%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A1	Benzo[b]naph(2,1-d}thiophene	No limit applies		<0.0011			212.2%
A1	Benzo[c]phenanthrene	No limit applies		<0.0011			212.2%
A1	Benzo[ghi]perylene	No limit applies		0.01			80.0%
A1	Benzo[a]pyrene	No limit applies		<0.0011			212.2%
A1	Cholanthrene	No limit applies		<0.0011			212.2%
A1	Chrysene	No limit applies		<0.0011			212.2%
A1	Cyclopenta(c,d)pyrene	No limit applies		<0.0011			212.2%
A1	Dibenzo[ah]anthracene	No limit applies		<0.0011			212.2%
A1	Dibenzo[a,i]pyrene	No limit applies		<0.0011			212.2%
A1	Fluoranthene	No limit applies		0.01			73.0%
A1	Indo[1,2,3-cd]pyrene	No limit applies		<0.0011			212.2%
A1	Naphthalene	No limit applies		0.13			70.9%

[1} For dioxins and dioxin-like PCBs, the result are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum
[2] The date and time of the sample that produced the result is given.
[3] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed [redacted]..... Date…28/01/2026.....
(authorised to sign as representative of Viridor)

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A2	Hydrogen fluoride	1 mg/m3	Average of three consecutive measurements of at least 30 minutes each	0.12	CEN TS 17340	10/10/2025 08:30 – 10:30 10/10/2025 10:35 – 12:35 10/10/2025 12:40 – 14:40	0.06
A2	Cadmium & thallium and their compounds (total)	0.02 mg/m^3	Average of three consecutive measurements of at least 30 minutes each	0.001	BS EN 14385	09/10/2025 08:21 – 09:25 09/10/2025 09:40 – 10:54 09/10/2025 11:08 – 12:12	0.0021
A2	Mercury and its compounds	0.02 mg/m^3	Average of three consecutive measurements of at least 30 minutes each	0.016	BS EN 13211	09/10/2025 12:53 – 13:57 09/10/2025 14:11 – 15:14 09/10/2025 15:27 – 16:31	0.0019
A2	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.3 mg/m^3	Average of three consecutive measurements of at least 30 minutes each	0.036	BS EN 14385	09/10/2025 08:21 – 09:25 09/10/2025 09:40 – 10:54 09/10/2025 11:08 – 12:12	0.008
A2	Dioxins / Furans (I-TEQ)	0.06 ng/m^3	Periodic over minimum 6 hours, maximum 8-hour period	0.052	BS EN 1948 Parts 1, 2 and 3	10/10/2025 08:45 – 14:55	0.0091
A2	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.002	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	10/10/2025 08:45 – 14:55	0.0002
A2	Dioxin-like PCBs (WHO-TEQ Fish)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.0001	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	10/10/2025 08:45 – 14:55	0.00001

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A2	Dioxin-like PCBs (WHO-TEQ Birds)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.004	EN 1948 Parts 1, 2 and 4 CEN TS 1948-5	10/10/2025 08:45 – 14:55	0.0005
A2	Dioxins / furans (WHO-TEQ Humans / Mammals)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.046	BS EN 1948 Parts 1, 2 and 3	10/10/2025 08:45 – 14:55	0.0081
A2	Dioxins / furans (WHO-TEQ Fish)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.054	BS EN 1948 Parts 1, 2 and 3	10/10/2025 08:45 – 14:55	0.0095
A2	Dioxins / furans (WHO-TEQ Birds)	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.118	BS EN 1948 Parts 1, 2 and 3	10/10/2025 08:45 – 14:55	0.0207
A2	Polybrominated dibenzo-dioxins and furans	No limit applies	Periodic over minimum 6 hours, maximum 8-hour period	0.00062	Method based on procedural requirements of EN 1948	10/10/2025 08:45 – 14:55	0.00009

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
	Poly-cyclic aromatic hydrocarbons (PAHs)		periodic over minimum 6 hours, maximum 8 hour period	***Results (ug/m3)***			
A2	Total	No limit applies		0.18			75%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A2	Anthanthrene	No limit applies		<0.0015	BS ISO 11338-1 and BS ISO 1138-2	Tested in Biannual 1 monitoring (annual requirement)	212.0%
A2	Benzo{a}anthracene	No limit applies		<0.0015			212.0%
A2	Benzo[b]fluoranthene	No limit applies		<0.0015			212.0%
A2	Benzo[k]fluoranthene	No limit applies		<0.0015			212.0%
A2	Benzo[b]naph(2,1-d}thiophene	No limit applies		<0.0015			212.0%
A2	Benzo[c]phenanthrene	No limit applies		<0.0015			212.0%
A2	Benzo[ghi]perylene	No limit applies		<0.0015			212.0%
A2	Benzo[a]pyrene	No limit applies		<0.0015			212.0%
A2	Cholanthrene	No limit applies		<0.0015			212.0%
A2	Chrysene	No limit applies		<0.0015			212.0%
A2	Cyclopenta(c,d)pyrene	No limit applies		<0.0015			212.0%
A2	Dibenzo[ah]anthracene	No limit applies		<0.0015			212.0%
A2	Dibenzo[a,i]pyrene	No limit applies		<0.0015			212.0%
A2	Fluoranthene	No limit applies		0.02			72.8%
A2	Indo[1,2,3-cd]pyrene	No limit applies		<0.0015			212.0%
A2	Naphthalene	No limit applies		0.14			70.4%

[1} For dioxins and dioxin-like PCBs, the result are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

[2] The date and time of the sample that produced the result is given.

[3] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …[redacted]…… Date…28/01/2026……..

(authorised to sign as representative of Viridor)

Assessment against Mercury and Dioxin Protocols: Notes for completion

- **ONLY complete this table in full** if there have been any periodically-monitored values above the thresholds set out in the mercury and dioxins monitoring protocols in this 6-month reporting period. **Otherwise,** enter N/A in the first date box if there have been no values above the threshold.

- For mercury, the threshold value is 10 µg/m^3 (11% oxygen). For dioxins, the threshold value is the permit ELV.

Assessment against Mercury and Dioxin Protocols					
Date	**Line**	**Hg or dioxins**	**Values**		**Measures put in place to prevent recurrence**
Not Applicable	Line 1	Hg	Value		
			Retest 1		
			Retest 2		
Not Applicable	Line 2	Dioxins	Value		
			Retest 1		
			Retest 2		
Note that the monitoring protocols require the operator to demonstrate consistent performance below threshold values such that continuous dioxins sampling or mercury monitoring is not required. The threshold value for dioxins is the same as the permit ELV, whereas the threshold for mercury is half of the ELV. Therefore, a value above the threshold value for mercury does not necessarily mean an exceedance of the permit ELV (see separate table above for compliance with the mercury ELV).					

Annual surveillance tests for continuous emissions monitoring systems: Notes for completion:

- Use this table to record the results of the annual surveillance tests (ASTs) that are carried out on the continuous emissions monitors (CEMS) if they have been carried within this 6-month reporting period.
- Where the CEM passes the AST, enter N/A under all the proceeding cells.
- Even if a new QAL2 is done as a precautionary measure, an AST must also be completed.
- A number of parameters have the drafting note [as applicable] next to them. If not applicable, please delete these rows. Otherwise, retain the relevant rows and delete the drafting note.

- In the event that not all of the steps have been completed at the time of submission of this report, enter TBC into the relevant cells. Please then resubmit this information in the table for the next 6-monthly reporting period, with the previously TBC fields additionally completed.

Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)
Environment Agency explanatory note: Note that, under the requirements of BS EN 14181 (the Quality Assurance of Automated Measuring systems), operators must carry out regular checks to assess for any drift in instrument calibration (referred to as QAL3 checks), as well as an annual calibration check known as an annual surveillance test (AST). Despite a QAL3 indicating that an instrument has not significantly drifted, the AST methodology includes additional checks of calibration variability and ongoing validity. If either the AST variability test or calibration validity test fail, the cause of must be identified (where possible) and rectified where appropriate, and a new QAL2 performed, reported and new calibration functions implemented in the CEMS software (the data acquisition and handling system – DAHS) within six months.

Line 1 DUTY	**Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)**							
Date of AST	**Monitor**	**Variability test passed? Y/N**	**Calibration validity test passed? Y/N**	**Brief description of actions to investigate AST failure prior to new QAL2 being undertaken** (as required by BS EN 14181:2014 Section 8.6)	**Date of QAL2**	**New calibration function from QAL2 (whereby y = bx + a)**		**Date new calibration function entered into DAHS**
						b value	**a value**	
29th September – 17th October 2025	HCl	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	29th September – 3rd October 2025	0.835x	-0.273	TBC – QAL2s under internal investigation
	SO_2	Y	Y					
	NO_x	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	29th September – 3rd October 2025	0.832x	+0.220	TBC – QAL2s under internal investigation
	TOC	Y	Y					
	Particulate matter	Y	Y					
	CO	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	29th September – 3rd October 2025	0.978x	+0.220	TBC – QAL2s under internal investigation
	NH_3	Y	Y					
	CO_2	Y	Y					
	N_20	Y	Y					
	O_2	Y	Y					
	Moisture	Y	Y					
	Velocity	Y	Y					

Line 1 STANDBY	**Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)**							
Date of AST	**Monitor**	**Variability test passed? Y/N**	**Calibration validity test passed? Y/N**	**Brief description of actions to investigate AST failure prior to new QAL2 being undertaken** (as required by BS EN 14181:2014 Section 8.6)	**Date of QAL2**	**New calibration function from QAL2 (whereby y = bx + a)**		**Date new calibration function entered into DAHS**
						b value	**a value**	
29th September – 17th October 2025	HCl	Y	Y					
	SO_2	Y	Y					
	NO_x	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.874x	-0.392	TBC – QAL2s under internal investigation
	TOC	Y	Y					
	Particulate matter	Y	Y					
	CO	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.957x	+0.400	TBC – QAL2s under internal investigation
	NH_3	Y	Y					
	CO_2	Y	Y					
	N_20	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.876x	-0.516	TBC – QAL2s under internal investigation
	O_2	Y	Y					
	Moisture	Y	Y					
	Velocity	Y	Y					

Line 2 DUTY	**Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)**							
Date of AST	**Monitor**	**Variability test passed? Y/N**	**Calibration validity test passed? Y/N**	**Brief description of actions to investigate AST failure prior to new QAL2 being undertaken** (as required by BS EN 14181:2014 Section 8.6)	**Date of QAL2**	**New calibration function from QAL2 (whereby y = bx + a)**		**Date new calibration function entered into DAHS**
						b value	**a value**	
29th September – 14th October 2025	HCl	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.660x	+0.334	TBC – QAL2s under internal investigation
	SO_2	Y	Y					
	NO_x	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.919x	-0.046	TBC – QAL2s under internal investigation
	NO	Y	Y					
	NO_2	Y	Y					
	TOC	Y	Y					
	Particulate matter	Y	Y					
	CO	Y	Y					
	NH_3	Y	Y					
	CO_2	Y	Y					
	N_20	Y	Y					
	O_2	Y	Y					
	Moisture	Y	Y					
	Flow	Y	Y					

Line 2 STANDBY	**Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)**							
Date of AST	**Monitor**	**Variability test passed? Y/N**	**Calibration validity test passed? Y/N**	**Brief description of actions to investigate AST failure prior to new QAL2 being undertaken** (as required by BS EN 14181:2014 Section 8.6)	**Date of QAL2**	**New calibration function from QAL2 (whereby y = bx + a)**		**Date new calibration function entered into DAHS**
						b value	**a value**	
29th September – 14th October 2025	HCl	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.642x	+0.858	TBC – QAL2s under internal investigation
	SO_2	Y	Y					
	NO_x	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.912x	-2.954	TBC – QAL2s under internal investigation
	TOC	Y	Y					
	Particulate matter	Y	Y					
	CO	Y	Y					
	NH_3	Y	Y					
	CO_2	Y	Y					
	N_20	Y	N	CEMS service reports, maintenance records and QAL3 control charts examined to determine cause	6th – 17th October 2025	0.828x	-0.048	TBC – QAL2s under internal investigation
	O_2	Y	Y					
	Moisture	Y	Y					
	Velocity	Y	Y					

Operator's comments :

Signed …[redacted]…… Date…28/01/2026……..

(authorised to sign as representative of Viridor