

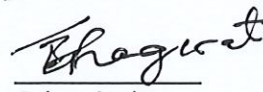
Air Monitoring Data Report

14-Jun-25

The attached report contains the air monitoring data for all the licenced air monitoring points as required by the Environment Protection Licence 10232, for July to May 2025 as part of the reporting period July 2024 - June 2025.

Authorised by:


Uday Bhagwat
Pulp Mill Manager


Johan Stoltz
General Manager

Latest Publication Date: 14-Jun-25

Monitoring Location No: 1

Environment Protection Licence: 10232

Description: Exit point from Stack 1 to atmosphere

Reporting Period: July 2024 to April 2025

Monitoring Type: Continuous

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Flow	Nm3/s	100	100.00	68.78	87.57	82.43	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	9.58	0.74	Y	
		Moisture	%	N/A	100.00	0.00	26.94	23.38	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	79.95	242.40	186.60	Y	
		Opacity	%	20	99.73	3.05	65.21	8.64	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.42	10.21	3.63	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	18.72	381.83	47.82	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	137.99	232.42	190.32	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.15	0.31	0.24	Y	
August	14-Sep	Flow	Nm3/s	100	100.00	61.83	92.13	81.06	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	16.95	0.88	Y	
		Moisture	%	N/A	100.00	0.00	26.65	23.23	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	109.21	246.68	183.62	Y	
		Opacity	%	20	99.64	2.53	89.54	7.05	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.31	11.20	3.64	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	22.13	424.83	51.72	N	Equipment Issues
		Temperature	°C	N/A	100.00	136.66	229.91	188.15	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.16	0.32	0.25	Y	
September	14-Oct	Flow	Nm3/s	100	100.00	57.11	88.90	78.99	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	13.08	0.84	Y	
		Moisture	%	N/A	100.00	0.00	27.13	22.86	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	47.48	261.56	181.38	Y	
		Opacity	%	20	99.65	2.27	35.54	6.99	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.58	9.82	3.76	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	1.88	368.68	44.59	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	118.37	240.82	186.01	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.00	0.41	0.30	Y	
October	14-Nov	Flow	Nm3/s	100	100.00	0.26	83.43	51.82	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	23.33	1.56	Y	
		Moisture	%	N/A	100.00	0.00	26.33	16.81	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	0.00	275.52	151.04	Y	
		Opacity	%	20	99.70	0.00	88.90	7.49	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.65	20.63	8.60	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	389.32	58.77	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	5.57	230.61	146.77	N/A	
		TRS (as H2S)	mg/m3	3.6	99.19	0.00	3.21	0.19	Y	
November	14-Dec	Flow	Nm3/s	100	100.00	66.65	84.45	76.24	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	15.94	0.62	Y	
		Moisture	%	N/A	100.00	0.00	26.57	23.04	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	112.58	275.81	201.33	Y	
		Opacity	%	20	99.65	1.85	58.70	6.15	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.53	5.58	3.53	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	104.84	35.40	Y	
		Temperature	°C	N/A	100.00	132.81	222.92	179.05	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.12	0.49	0.29	Y	
December	14-Jan	Flow	Nm3/s	100	100.00	61.38	86.35	77.79	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	9.03	0.50	Y	
		Moisture	%	N/A	100.00	0.00	26.64	22.97	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	9.60	350.60	181.75	Y	
		Opacity	%	20	99.65	1.93	56.13	7.05	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.69	10.66	3.66	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.02	572.74	19.28	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	132.97	233.44	180.79	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.08	0.68	0.31	Y	
January	14-Feb	Flow	Nm3/s	100	100.00	53.53	86.50	77.33	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	10.26	1.21	Y	
		Moisture	%	N/A	100.00	0.00	27.81	22.82	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	62.26	314.47	178.19	Y	
		Opacity	%	20	99.66	2.10	54.07	7.38	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.67	9.44	3.66	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	213.25	19.23	Y	
		Temperature	°C	N/A	100.00	127.94	248.51	182.22	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.12	0.55	0.31	Y	
February	14-Mar	Flow	Nm3/s	100	100.00	12.92	82.40	76.13	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	12.03	1.83	Y	
		Moisture	%	N/A	100.00	0.00	26.02	22.26	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	20.02	312.26	177.96	Y	
		Opacity	%	20	99.66	2.67	85.11	8.22	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.57	18.96	3.75	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.04	624.67	38.93	N	Equipment Issues
		Temperature	°C	N/A	100.00	136.89	238.78	181.92	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.07	2.98	0.35	Y	
March	14-Apr	Flow	Nm3/s	100	100.00	58.43	84.08	76.26	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	26.63	1.20	Y	
		Moisture	%	N/A	100.00	0.00	26.52	22.82	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	123.11	274.24	194.32	Y	
		Opacity	%	20	99.62	2.74	53.92	8.81	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.56	10.88	3.53	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.99	587.64	39.05	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	126.06	222.84	181.21	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.03	3.74	0.20	Y	Planned Shut Down
April	14-May	Flow	Nm3/s	100	100.00	56.87	83.08	76.83	Y	

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
		Hydrogen chloride	mg/m3	50	100.00	0.00	31.27	1.05	Y	
		Moisture	%	N/A	100.00	0.00	26.49	22.85	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	149.27	242.02	206.67	Y	
		Opacity	%	20	99.64	2.45	43.72	8.12	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.57	9.46	3.64	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.10	58.60	36.29	Y	
		Temperature	°C	N/A	100.00	105.10	235.01	182.33	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.05	0.24	0.17	Y	
May	14-Jun	Flow	Nm3/s	100	99.87	59.42	96.34	77.93	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	45.66	1.37	Y	
		Moisture	%	N/A	100.00	0.00	26.40	19.65	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	99.87	61.03	361.03	178.37	Y	
		Opacity	%	20	99.62	2.43	44.43	8.45	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	0.01	21.25	3.50	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	4.43	567.30	44.02	Y	Planned Shut Down
		Temperature	°C	N/A	100.00	118.52	246.31	183.56	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.15	19.17	0.31	Y	Planned Shut Down



Latest Publication Date:	14-Jun-25	Environment Protection Licence:	10232
Monitoring Location No:	1	Reporting Period:	July 2024 to June 2025
Description:	Exit point from Stack 1 to Atmosphere	Sample Type:	Air
Monitoring Type:	Grab Sample		

Pollutant	Unit of measure	Concentration Limit	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
Chlorine	mg/m3	100	Annual	20-Nov-24	28-Jan-25	R018063	< 0.02	Yes	
Sulfuric acid mist & sulfur trioxide (as SO3)	mg/m3	20	Annual	20-Nov-24	28-Jan-25	R018063	0.74	Yes	
TCDD (equivalent)	ng/m3	0.1	Annual	20-Nov-24	28-Jan-25	R018063	0.0023	Yes	
Total Solid Particles	mg/m3	50	1st Qrt	5-Sep-24	20-Sep-24	R017569	47	Yes	
Total Solid Particles	mg/m3	50	2nd Qrt	20-Nov-24	28-Jan-25	R018063	39	Yes	
Total Solid Particles	mg/m3	50	3rd Qrt	12-Feb-25	24-Feb-25	R018538	48	Yes	
Total Solid Particles	mg/m3	50	4th Qrt	15-May-25	27-May-25	R018836	32	Yes	
Type 1 and 2 substances	mg/m3	1	Annual	20-Nov-24	28-Jan-25	R018063	< 0.053	Yes	

ND- No Data
N/A- Not Applicable

Latest Publication Date: 14-Jun-25

Monitoring Location No: 2

Environment Protection Licence:

10232

Description: Discharge duct downstream of Recovery Boiler A prior to junction with Stack 1

Reporting Period:

July 2024 to April 2025

Monitoring Type: Continuous

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.90	892.80	80.28	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	99.46	32.31	N/A	
		Moisture	%	N/A	100.00	0.00	26.98	24.08	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	64.00	218.37	180.33	N/A	
		Opacity	%	N/A	100.00	0.00	25.09	82.84	N/A	
		Oxygen (O2)	%	N/A	100.00	1.49	15.67	3.47	N/A	
		Temperature	°C	N/A	100.00	141.09	188.21	174.38	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.71	634.78	74.88	N/A	
		Flow	Nm3/s	N/A	100.00	0.04	97.76	46.78	N/A	
		Moisture	%	N/A	100.00	0.00	26.79	23.88	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	60.10	233.94	179.54	N/A	
		Opacity	%	N/A	100.00	0.35	60.45	2.26	N/A	
		Oxygen (O2)	%	N/A	100.00	2.14	14.46	3.56	N/A	
		Temperature	°C	N/A	100.00	148.66	181.31	173.42	N/A	
September	14-Oct	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.17	594.97	42.16	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	99.01	54.77	N/A	
		Moisture	%	N/A	100.00	0.00	26.82	24.44	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	72.01	207.60	167.08	N/A	
		Opacity	%	N/A	100.00	1.34	23.54	3.37	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	23.34	2.45	N/A	
		Temperature	°C	N/A	100.00	1.51	14.52	3.38	N/A	
October	14-Nov	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.03	342.10	26.63	N/A	
		Flow	Nm3/s	N/A	100.00	0.00	96.54	42.15	N/A	
		Moisture	%	N/A	100.00	0.00	27.35	17.15	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.06	225.18	118.99	N/A	
		Opacity	%	N/A	100.00	0.24	59.04	2.54	N/A	
		Oxygen (O2)	%	N/A	100.00	1.81	21.04	9.26	N/A	
		Temperature	°C	N/A	100.00	14.99	198.90	137.84	N/A	
November	14-Dec	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.90	915.11	84.46	N/A	
		Flow	Nm3/s	N/A	100.00	0.04	100.13	49.48	N/A	
		Moisture	%	N/A	100.00	0.00	27.25	24.66	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	66.90	217.23	147.58	N/A	
		Opacity	%	N/A	100.00	1.37	31.58	4.85	N/A	
		Oxygen (O2)	%	N/A	100.00	0.01	36.45	1.93	N/A	
		Temperature	°C	N/A	100.00	1.77	6.51	3.26	N/A	
December	14-Jan	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.20	916.80	71.46	N/A	
		Flow	Nm3/s	N/A	100.00	0.02	97.90	36.75	N/A	
		Moisture	%	N/A	100.00	0.00	27.39	24.36	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	1.79	227.91	144.05	N/A	
		Opacity	%	N/A	100.00	0.76	45.49	3.90	N/A	
		Oxygen (O2)	%	N/A	100.00	1.57	15.49	3.59	N/A	
		Temperature	°C	N/A	100.00	101.66	178.99	167.84	N/A	
January	14-Feb	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.73	857.24	96.71	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	98.38	37.19	N/A	
		Moisture	%	N/A	100.00	0.00	27.07	24.74	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	19.74	258.99	145.15	N/A	
		Opacity	%	N/A	100.00	1.06	25.52	3.45	N/A	
		Oxygen (O2)	%	N/A	100.00	2.13	5.61	3.55	N/A	
		Temperature	°C	N/A	100.00	160.71	176.73	170.65	N/A	
February	14-Mar	Carbon monoxide (CO)	mg/m3	N/A	100.00	1.22	1019.48	81.39	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	97.29	32.44	N/A	
		Moisture	%	N/A	100.00	0.00	27.09	23.89	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	1.48	230.76	133.05	N/A	
		Opacity	%	N/A	100.00	0.70	89.80	4.20	N/A	
		Oxygen (O2)	%	N/A	100.00	0.01	21.11	3.82	N/A	
		Temperature	°C	N/A	100.00	148.44	185.89	169.68	N/A	
March	14-Apr	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.90	893.28	74.80	N/A	
		Flow	Nm3/s	N/A	100.00	0.04	98.89	36.13	N/A	
		Moisture	%	N/A	100.00	0.00	27.68	24.55	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	35.26	196.71	139.21	N/A	
		Opacity	%	N/A	100.00	0.52	23.98	3.67	N/A	
		Oxygen (O2)	%	N/A	100.00	1.64	14.97	3.41	N/A	
		Temperature	°C	N/A	100.00	94.02	179.05	169.25	N/A	
April	14-May	Carbon monoxide (CO)	mg/m3	N/A	100.00	1.05	505.96	45.05	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	98.44	32.42	N/A	
		Moisture	%	N/A	100.00	0.00	27.73	25.04	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	130.32	222.75	183.13	N/A	
		Opacity	%	N/A	100.00	0.74	24.12	3.43	N/A	
		Oxygen (O2)	%	N/A	100.00	2.05	5.86	3.33	N/A	
		Temperature	°C	N/A	100.00	165.12	179.39	172.41	N/A	
May	14-Jun	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.90	592.44	49.48	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	97.82	49.60	N/A	
		Moisture	%	N/A	100.00	0.00	27.07	24.58	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	70.80	282.21	190.00	N/A	
		Opacity	%	N/A	100.00	0.71	46.06	3.25	N/A	
		Oxygen (O2)	%	N/A	100.00	0.05	21.12	3.55	N/A	
		Temperature	°C	N/A	100.00	95.21	178.99	169.66	N/A	

Latest Publication Date:

14-Jun-25

Monitoring Location No:

2

Environment Protection Licence:

10232

Description:

Discharge duct downstream of Recovery Boiler A prior to junction with Stack 1

Reporting Period:

July 2024 to June 2025

Monitoring Type:

Grab Sample

Sample Type:

Air

Pollutant	Unit of measure	Reporting Level	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance(Yes/No)	Comment
Methanol	mg/m3	N/A	Annual	21-Nov-24	28-Jan-25	R018063	<0.3	N/A	
Total Solid Particles	mg/m3	N/A	Annual	21-Nov-24	28-Jan-25	R018063	12	N/A	

ND - No Data
N/A - Not applicable

Latest Publication Date: 14-Jun-25

Monitoring Location No: 3

Environment Protection Licence:

10232

Description: Discharge duct downstream of Power Boiler prior to junction with Stack 1

Reporting Period:

July 2024 to April 2025

Monitoring Type: Continuous

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	100.00	8.85	111.87	49.84	N/A	
		Flow	Nm3/s	N/A	100.00	0.04	83.21	40.49	N/A	
		Moisture	%	N/A	100.00	0.00	22.44	15.86	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	6.27	172.14	105.34	N/A	
		Opacity	%	N/A	100.00	4.27	41.56	10.51	N/A	
		Oxygen (O2)	%	N/A	100.00	2.48	7.37	4.41	N/A	
		Temperature	°C	N/A	100.00	201.79	223.40	210.67	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	100.00	8.45	284.90	37.67	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	81.70	39.91	N/A	
		Moisture	%	N/A	100.00	0.00	26.50	14.89	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	3.71	244.09	97.74	N/A	
		Opacity	%	N/A	100.00	2.68	24.44	8.76	N/A	
		Oxygen (O2)	%	N/A	100.00	1.05	8.29	4.16	N/A	
		Temperature	°C	N/A	100.00	193.58	222.74	207.91	N/A	
September	14-Oct	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.88	265.36	43.93	N/A	
		Flow	Nm3/s	N/A	100.00	0.00	88.27	37.47	N/A	
		Moisture	%	N/A	100.00	0.00	24.16	11.69	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.22	194.92	72.30	N/A	
		Opacity	%	N/A	100.00	3.67	50.03	9.45	N/A	
		Oxygen (O2)	%	N/A	100.00	1.88	20.42	5.05	N/A	
		Temperature	°C	N/A	100.00	21.53	225.29	196.94	N/A	
October	14-Nov	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.02	519.07	38.40	N/A	
		Flow	Nm3/s	N/A	100.00	0.00	84.93	29.27	N/A	
		Moisture	%	N/A	100.00	0.00	20.96	10.98	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.02	167.78	68.87	N/A	
		Opacity	%	N/A	100.00	3.04	76.72	9.44	N/A	
		Oxygen (O2)	%	N/A	100.00	0.40	20.82	7.67	N/A	
		Temperature	°C	N/A	100.00	12.67	231.61	180.88	N/A	
November	14-Dec	Carbon monoxide (CO)	mg/m3	N/A	99.86	7.75	135.60	35.64	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	78.23	35.84	N/A	
		Moisture	%	N/A	100.00	0.00	31.61	17.22	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	42.96	239.33	135.76	N/A	
		Opacity	%	N/A	100.00	3.00	32.46	8.97	N/A	
		Oxygen (O2)	%	N/A	100.00	1.31	9.46	3.90	N/A	
		Temperature	°C	N/A	100.00	184.06	207.56	196.00	N/A	
December	14-Jan	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.03	365.98	31.94	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	75.59	35.89	N/A	
		Moisture	%	N/A	100.00	0.00	50.00	20.97	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	6.26	276.57	180.95	N/A	
		Opacity	%	N/A	100.00	0.40	69.46	9.12	N/A	
		Oxygen (O2)	%	N/A	100.00	0.51	23.15	3.99	N/A	
		Temperature	°C	N/A	100.00	169.53	208.87	196.07	N/A	
January	14-Feb	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.83	476.01	45.84	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	82.65	34.89	N/A	
		Moisture	%	N/A	100.00	0.00	32.21	20.44	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.84	247.07	155.08	N/A	
		Opacity	%	N/A	100.00	1.55	44.41	8.07	N/A	
		Oxygen (O2)	%	N/A	100.00	0.85	20.26	4.24	N/A	
		Temperature	°C	N/A	100.00	177.74	230.95	199.22	N/A	
February	14-Mar	Carbon monoxide (CO)	mg/m3	N/A	100.00	3.03	292.17	33.15	N/A	
		Flow	Nm3/s	N/A	100.00	0.01	77.64	34.59	N/A	
		Moisture	%	N/A	100.00	0.00	30.12	20.14	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.03	268.33	167.77	N/A	
		Opacity	%	N/A	100.00	2.94	62.90	8.53	N/A	
		Oxygen (O2)	%	N/A	100.00	0.01	21.69	4.11	N/A	
		Temperature	°C	N/A	100.00	177.74	230.38	199.79	N/A	
March	14-Apr	Carbon monoxide (CO)	mg/m3	N/A	100.00	6.66	190.87	20.91	N/A	
		Flow	Nm3/s	N/A	100.00	0.04	77.29	33.79	N/A	
		Moisture	%	N/A	100.00	0.00	30.56	20.32	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	88.67	217.75	170.07	N/A	
		Opacity	%	N/A	100.00	3.02	61.72	8.92	N/A	
		Oxygen (O2)	%	N/A	100.00	2.10	18.85	4.00	N/A	
		Temperature	°C	N/A	100.00	172.65	206.99	195.80	N/A	
April	14-May	Carbon monoxide (CO)	mg/m3	N/A	99.86	9.73	325.77	38.58	N/A	
		Flow	Nm3/s	N/A	100.00	0.00	74.77	33.43	N/A	
		Moisture	%	N/A	100.00	0.00	30.55	19.90	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.00	254.57	188.11	N/A	
		Opacity	%	N/A	100.00	0.79	62.79	8.43	N/A	
		Oxygen (O2)	%	N/A	100.00	1.31	21.35	4.77	N/A	
		Temperature	°C	N/A	100.00	18.33	215.19	181.09	N/A	
May	14-Jun	Carbon monoxide (CO)	mg/m3	N/A	100.00	4.86	290.38	38.97	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	74.17	34.71	N/A	
		Moisture	%	N/A	100.00	0.00	31.39	20.55	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	76.90	361.29	196.30	N/A	
		Opacity	%	N/A	100.00	1.66	34.96	8.39	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	23.15	4.18	N/A	
		Temperature	°C	N/A	100.00	190.38	213.31	202.92	N/A	



Latest Publication Date: 14-Jun-25

Monitoring Location No: 21

Environment Protection Licence: 10232

Description: Discharge duct downstream of Lime Kiln B prior to junction with Stack 1

Reporting Period: July 2024 to June 2025

Monitoring Type: Grab Sample

Sample Type: Air

Pollutant	Unit of measure	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Comment
Total Solid Particles	mg/m3	Annual	21-Nov-24	28-Jan-25	R018063	94	

General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jun-25

Monitoring Location No: 22

Environment Protection Licence: 10232

Description: Exit point from Stack 2 to atmosphere

Reporting Period: July 2024 to April 2025

Monitoring Type: Continuous

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Flow	Nm3/s	N/A	100.00	0.93	55.28	47.64	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.65	32.95	1.47	Y	
		Moisture	%	N/A	100.00	14.16	27.13	17.38	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	14.53	146.63	117.60	Y	
		Opacity	%	20	99.64	1.81	24.98	6.08	Y	Instrument Error
		Oxygen (O2)	%	N/A	100.00	3.76	20.71	5.71	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	1.11	0.68	Y	
		Temperature	°C	N/A	100.00	156.76	176.59	167.33	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.00	0.92	0.52	Y	
August	14-Sep	Flow	Nm3/s	100	100.00	0.18	53.79	44.16	N/A	
		Hydrogen chloride	mg/m3	50	99.73	0.00	34.62	1.14	Y	
		Moisture	%	N/A	100.00	14.39	26.90	17.41	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	99.87	32.91	305.16	137.72	Y	
		Opacity	%	20	99.69	0.00	38.35	3.78	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	3.97	20.94	6.79	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	91.37	0.56	Y	
		Temperature	°C	N/A	100.00	92.90	175.72	167.14	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.00	1.86	0.62	Y	
September	14-Oct	Flow	Nm3/s	N/A	100.00	0.19	53.28	46.16	N/A	
		Hydrogen chloride	mg/m3	50	99.86	0.99	44.28	1.49	Y	
		Moisture	%	N/A	100.00	14.32	27.07	17.34	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	1.51	155.74	123.74	Y	
		Opacity	%	20	99.63	2.40	25.53	5.95	Y	Auto Calibration
		Oxygen (O2)	%	N/A	100.00	4.16	20.94	6.29	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.03	0.45	0.18	Y	
		Temperature	°C	N/A	100.00	158.36	174.67	166.56	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.13	0.97	0.80	Y	
October	14-Nov	Flow	Nm3/s	N/A	100.00	0.00	54.94	33.92	N/A	
		Hydrogen chloride	mg/m3	50	99.87	1.34	18.39	5.15	Y	
		Moisture	%	N/A	100.00	14.87	24.77	17.34	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	0.00	139.08	113.60	Y	
		Opacity	%	20	99.73	0.00	74.03	5.97	Y	Planned Shut Down
		Oxygen (O2)	%	N/A	100.00	3.94	20.98	9.43	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	0.45	0.23	Y	
		Temperature	°C	N/A	100.00	12.22	174.46	139.05	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.00	1.40	0.71	Y	
November	14-Dec	Flow	Nm3/s	100	100.00	0.18	63.71	42.41	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.02	40.27	1.19	Y	
		Moisture	%	N/A	100.00	15.41	27.03	17.42	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	1.43	352.83	95.29	Y	
		Opacity	%	20	99.60	1.05	56.91	9.55	Y	Instrument Error
		Oxygen (O2)	%	N/A	100.00	0.01	20.94	7.23	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.08	71.52	0.71	Y	
		Temperature	°C	N/A	100.00	120.12	173.80	165.71	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.01	2.33	0.81	Y	
December	14-Jan	Flow	Nm3/s	N/A	100.00	0.04	48.45	38.16	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.00	26.64	1.27	Y	
		Moisture	%	N/A	100.00	15.30	26.54	17.48	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	98.12	0.41	376.36	83.66	Y	
		Opacity	%	20	99.66	3.78	26.38	6.30	Y	Auto Calibration
		Oxygen (O2)	%	N/A	100.00	5.70	22.04	8.10	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.01	102.71	0.80	Y	
		Temperature	°C	N/A	100.00	107.70	171.97	162.35	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.00	1.05	0.34	Y	
January	14-Feb	Flow	Nm3/s	100	100.00	0.02	81.78	37.58	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.87	15.77	1.71	Y	
		Moisture	%	N/A	100.00	15.61	28.01	17.48	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	0.01	376.97	115.02	Y	
		Opacity	%	20	99.58	0.09	66.57	8.35	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	6.34	23.55	8.45	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	5.92	0.52	Y	
		Temperature	°C	N/A	100.00	105.75	172.29	163.48	N/A	
		TRS (as H2S)	mg/m3	3.6	99.87	0.00	3.03	0.67	Y	
February	14-Mar	Flow	Nm3/s	100	100.00	0.02	100.00	37.75	N/A	
		Hydrogen chloride	mg/m3	50	99.70	0.00	44.95	1.99	Y	
		Moisture	%	N/A	100.00	14.78	28.11	17.50	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	99.85	8.55	337.76	128.30	Y	
		Opacity	%	20	99.67	2.51	89.30	8.24	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	0.01	23.39	8.79	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.01	55.21	0.99	Y	
		Temperature	°C	N/A	100.00	145.62	174.67	164.77	N/A	
		TRS (as H2S)	mg/m3	3.6	99.85	0.01	2.78	0.90	Y	
March	14-Apr	Flow	Nm3/s	100	100.00	0.02	100.00	47.36	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.20	28.39	0.81	Y	
		Moisture	%	N/A	100.00	14.71	26.90	17.47	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	21.85	161.48	135.79	Y	
		Opacity	%	20	99.61	0.08	30.82	8.31	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	3.92	22.82	5.59	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	0.96	0.03	Y	
		Temperature	°C	N/A	100.00	106.09	172.39	164.80	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.06	1.45	0.99	Y	
April	14-May	Flow	Nm3/s	100	100.00	0.02	100.00	45.71	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.59	30.64	1.21	Y	



Latest Publication Date:

14-Jun-25

Monitoring Location No:

22

Description:

Exit point from Stack 2 to atmosphere

Monitoring Type:

Continuous

Environment Protection Licence:

10232

Reporting Period:

July 2024 to April 2025

Sample Type:

Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
May	14-Jun	Moisture	%	N/A	100.00	14.69	26.57	17.42	N/A	Planned Shut Down
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	3.32	154.87	120.09	Y	
		Opacity	%	20	99.63	0.70	85.23	4.04	Y	
		Oxygen (O2)	%	N/A	100.00	3.82	22.57	5.78	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	0.07	0.01	Y	
		Temperature	°C	N/A	100.00	148.10	171.87	163.03	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.05	1.21	1.00	Y	
		Flow	Nm3/s	100	100.00	0.02	100.00	46.78	N/A	Planned Maintenance
		Hydrogen chloride	mg/m3	50	100.00	0.14	43.35	1.57	Y	
		Moisture	%	N/A	100.00	14.34	28.29	17.41	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	0.03	242.14	115.38	Y	
		Opacity	%	20	99.83	0.09	38.37	6.68	Y	
		Oxygen (O2)	%	N/A	100.00	3.77	22.94	5.59	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	55.17	0.47	Y	
		Temperature	°C	N/A	100.00	150.23	172.08	163.27	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.07	1.98	1.08	Y	



Latest Publication Date: 14-Jun-25

Monitoring Location No: 22

Description: Exit point from Stack 2 to atmosphere

Monitoring Type: Grab Sample

Environment Protection Licence: 10232

Reporting Period: July 2024 to June 2025

Sample Type: Air

Pollutant	Unit of measure	Concentration		Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comments
		Limit								
Chlorine	mg/m3	100		Annual	19-Nov-24	28-Jan-25	R018063	< 0.05	Yes	
Sulfuric acid mist & sulfur trioxide (as SO3)	mg/m3	20		Annual	19-Nov-24	28-Jan-25	R018063	0.200	Yes	
TCDD (equivalent)	ng/m3	0.1		Annual	19-Nov-24	28-Jan-25	R018063	0.0036	Yes	
Total Solid Particles	mg/m3	50		1st Qrt	20-Aug-24	20-Sep-24	R017569	18	Yes	
Total Solid Particles	mg/m3	50		2nd Qrt	19-Nov-24	28-Jan-25	R018063	36	Yes	
Total Solid Particles	mg/m3	50		3rd Qrt	12-Feb-25	24-Feb-25	R018538	13	Yes	
Total Solid Particles	mg/m3	50		4th Qrt	15-May-25	27-May-25	R018836	26	Yes	
Type 1 and 2 substances	mg/m3	1		Annual	19-Nov-24	28-Jan-25	R018063	< 0.043	Yes	

ND- No Data
N/A- Not Applicable