

## Monthly Operating Reports

December 2022

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The following December 2022 operating report was sent to the Ministry of Environment and Climate Change Strategy on February 10, 2023.









December 2022 - Monthly CEMS Data

Date	Boiler #1								Boiler #2								Boiler #3								
	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp	
12/1/22	155	9.7	69	128.1	22.9	0.22	0.49	931	137	11.2	82.8	126.2	18.7	0.01	1.70	939									
12/2/22									130	10.7	64	125	20.7	0.07	1.70	948									
12/3/22	155	8.8	68.6	131.5	14.7	0.09	0.54	951																	
12/4/22	159	9.3	57.6	128.8	16.7	0.06	0.54	944																	
12/5/22	158	9.3	47.3	127.6	20.2	0.07	0.57	943	137	10.3	73.3	130	23.8	0.04	1.43	939									
12/6/22	160	9.3	60.7	130.7	17.4	0.05	0.49	944	137	10.3	88.9	129.8	23.1	0.03	1.40	937									
12/7/22	159	9.4	40.9	129	22	0.05	0.47	938	137	10.3	58.7	131.3	23.3	0.08	1.40	924									
12/8/22	159	9.4	55.2	129.9	23.5	0.07	0.43	940	139	10.5	73.1	139.7	24.2	0.05	1.33	928	151	11.2	98.7	151.7	30.4	0.46	0.34		866
12/9/22	158	9.3	52.1	132	21.7	0.10	0.43	942	141	10.8	60.5	144.1	23.5	0.06	1.37	912	151	11.2	76.7	138.1	21.1	0.43	0.42		882
12/10/22	159	9.2	51.6	128.9	22.6	0.07	0.44	931								153	11.4	85.1	137.8	25	0.39	0.41			894
12/11/22	158	9.8	53.3	125.3	20	0.03	0.44	922	141	10.7	71.3	144	20.6	0.00	1.34	928	155	11.4	100.6	139.9	20.6	0.36	0.34		917
12/12/22	157	9.7	44.7	128.2	21.6	0.04	0.45	922	139	10.6	60	138.1	22.8	0.01	1.39	924	153	11.5	79	141.2	19.7	0.40	0.42		915
12/13/22	157	9.7	48	129	24.9	0.05	0.45	927	139	10.7	76.3	129.9	28.2	0.01	1.41	927	152	12	89.2	134.2	24.7	0.38	0.43		919
12/14/22									137	10.8	54.8	128.9	22.6	0.06	1.45	918	150	12	73.4	132.8	22.6	0.31	0.50		923
12/15/22									137	10.8	64.2	127.2	15.5	0.00	1.46	922	151	12.3	80.7	140	20.4	0.55	0.48		909
12/16/22	150	9.6	49.1	129.2	22.2	0.08	0.14	935								149	11.9	61.6	129.8	26	0.35	0.50			915
12/17/22	152	9.6	62	128.4	19.3	0.03	0.09	931	138	10.4	94.9	130.9	23.7	0.01	1.42	939	151	12.1	78.3	134.9	22	0.38	0.48		912
12/18/22	155	9.8	61.9	128.7	23.3	0.07	0.07	914	138	10.4	82.7	129.8	23.4	0.00	0.41	927	150	12.1	70.3	134.8	23.3	0.33	0.57		915
12/19/22	152	9.5	40.3	125.6	19.5	0.08	0.21	929	137	10.6	63	128.1	19.3	0.00	0.65	930	149	12.1	56.5	130.9	20.2	0.19	0.65		917
12/20/22	152	9.4	92.7	124.6	14.8	0.04	0.36	929	138	10.3	121.4	127.9	18.8	0.00	0.71	937	147	11.8	128.8	129.8	20.8	0.26	0.81		926
12/21/22	153	9.7	56.7	126.7	20.6	0.09	0.35	926	138	10.7	69.6	129.6	24.7	0.00	0.74	922	149	11.1	75.5	129.3	31.4	0.20	0.72		915
12/22/22	153	9.7	35.4	127.3	24.6	0.05	0.38	924	136	10.7	50.4	128.7	24	0.00	0.73	922	151	9.4	51.2	129.2	31.1	0.09	0.42		921
12/23/22	154	9.5	36.7	129	19.4	0.16	0.41	923	136	11	56.9	128.1	24.8	0.01	0.71	923	150	9	51.2	133.6	25.3	0.33	0.41		928
12/24/22	155	9.7	45.4	123.9	20.8	0.06	0.25	918	138	11.3	53.5	130	21.1	0.00	0.56	910	152	9.5	57.7	129.3	28.6	0.10	0.31		904
12/25/22	153	9.7	79.9	121.7	15.1	0.02	0.17	915	140	10.9	94.8	130	16.6	0.01	0.55	920	149.6	9.6	62.2	129	16.3	0.06	0.18		899
12/26/22									139	11.2	55.9	127.9	28	0.24	0.42	905	150	9.2	39.9	126.7	26.9	0.49	0.08		888
12/27/22	155	9.8	39.4	121.2	18.6	0.01	0.13	902	140	11	65.1	130.9	22.3	0.00	0.50	901	150	8.6	48.7	129.7	24.6	0.18	0.12		905
12/28/22	157	9.3	31.1	127	17.6	0.02	0.09	914	143	11.1	45.7	132.3	27.1	0.00	0.20	909	154	9	42.7	130.5	29.8	0.40	0.20		896
12/29/22	159	9.6	30.2	128.3	24.2	0.07	0.08	907	139	11.1	50.2	131.5	25	0.01	0.26	913	153	8.4	53.3	129.6	23	0.11	0.25		916
12/30/22	156	9.9	25.1	128.3	18.1	0.03	0.12	913	140	11.4	32.9	131.6	19.9	0.02	0.26	900	151	8.9	39.1	131	26.6	0.17	0.21		900
12/31/22	155	9.5	33.8	128.8	20.9	0.01	0.13	909	140	11.7	38.2	135.2	23	0.03	0.28	885	149	9.1	49	133.9	23.5	0.12	0.25		890
<b>Average</b>	156	9.5	50.7	127.7	20.3	0.06	0.32	927	138.2	10.8	66.8	131.4	22.5	0.03	0.95	921.8	150.9	10.6	68.7	133.7	24.3	0.29	0.40		907.2
<b>Min</b>	150	8.8	25.1	121.2	14.7	0.01	0.07	902	130.0	10.3	32.9	125.0	15.5	0.00	0.20	885.0	147.0	8.4	39.1	126.7	16.3	0.06	0.08		866.0
<b>Max</b>	160	9.9	92.7	132.0	24.9	0.22	0.57	951	143.0	11.7	121.4	144.1	28.2	0.24	1.70	948.0	155.0	12.3	128.8	151.7	31.4	0.55	0.81		928.0
<b>St Dev</b>	2.7	0.24	15.60	2.59	2.94	0.04	0.17	12.8	2.34	0.37	19.04	4.85	3.10	0.05	0.51	14.26	1.84	1.39	21.95	5.58	3.98	0.14	0.18		15.23

Blank days have less than 18 hours of valid data due to unit shut downs or analyzer outage/maintenance.  
 According to standard guidelines used by Metro Vancouver Air Quality Policy and Environment Division, a minimum of 18 hours of valid data is required to generate a valid 24hr average.