

**state
of
the
air**
2020

technical
appendix

2019 BC Lung State of the Air Report -- Technical Appendix

Data Source:

B.C. Ministry of Environment and Climate Change Strategy, Metro Vancouver, Prince Rupert Port Authority

Units:

All data presented in ppb except PM_{2.5}, which is presented in micrograms per cubic metre

Monitoring sites:

Monitoring is often conducted to address various objectives that may include measuring concentrations representative of: community exposure, industrial impacts, background concentrations, etc. For the State of Air Report, monitoring sites immediately adjacent to industrial facilities were not included unless these sites were also near areas of high population density.

Data completeness:

Data completeness criteria have been relaxed relative to previous reports to enable reporting of data from more stations.

In this report, a valid day has data for at least 18 hours (75%).

A valid year has data for at least 60% of days in each quarter and 75% of of hours over an entire year, with the following exceptions.

For peak (4th highest) 8-hour ozone levels, a valid 8-hour period has data for at least 6 hours, a valid day has data for at least 18 hours, and a valid year has at least 75% of days in the second and third quarters (April 1 to September 30).

For peak (1-hour) SO₂ and NO₂ levels, a valid daily maximum includes those days where less than 18 hours are available in a day but the maximum concentration exceeds the objective level.

Annual mean PM_{2.5} levels are based on the annual mean of daily PM_{2.5} concentrations.

Where data completeness requirements are not met, only number of hours per year, maximum value and number of exceedances are shown.

Collocated monitors:

Where more than one PM_{2.5} monitor is operating at a single site, data are shown for the monitor currently considered the primary reporting monitor and/or the monitor reporting a complete year of data.

A common example is the collocation of new FEM instruments alongside the TEOM instruments. This is done primarily for testing purposes, to ensure satisfactory FEM performance prior to establishing the FEM instrument as the primary reporting monitor and decommissioning the older TEOM instrument.

Disclaimer:

While the information in these data summaries are believed to be accurate, the data summaries are provided as is without any warranty, and may be subject to change as changes to the underlying database occur.

Disclaimer (Metro Vancouver data):

1. Permission is granted to produce or reproduce these data, or any substantial part of them, for personal, non-commercial, educational and informational purposes only, provided that the data are not modified or altered and provided that this disclaimer notice is included in any such production or reproduction.
2. While the information in these data is believed to be accurate, these data and all of the information contained therein are provided "as is" without warranty of any kind, whether express or implied. All implied warranties, including, without limitation, implied warranties of merchantability and fitness for a particular purpose, are expressly disclaimed by Metro Vancouver. Metro Vancouver reserves the right to update data files from time to time and will not be held responsible for the validity of the archives maintained by other parties. It is the user's responsibility to ensure that the data is up-to-date and to follow-up with Metro Vancouver should any questions related to the data arise.
3. The information provided in these data is intended for educational and informational purposes only. These data are not intended to endorse or recommend any particular product, material or service provider nor is it intended as a substitute for engineering, legal or other professional advice. Such advice should be sought from qualified professionals.

2019 Fine Particulate Matter

Site	Year	No. Valid Hrs	Annual Avg	Percentiles (1h)					Max 1h	No. Valid Days	24h Average			% of Valid Days Per Quarter			
				25th	50th	75th	98th	99th			Annual Avg	Annual 98th Percentile*	Annual Max	Q1	Q2	Q3	Q4
Abbotsford-Airport	2019	8675	5.76	2.64	4.51	7.22	19.92	24.41	144.54	362.00	5.75	16.37	22.34	96.7%	100.0%	100.0%	100.0%
Abbotsford-Mill Lake	2019	8675	5.43	2.51	4.24	6.79	18.40	23.39	178.28	362.00	5.44	13.80	28.34	100.0%	96.7%	100.0%	100.0%
Agassiz	2019	8601	5.35	2.90	4.58	6.77	15.43	17.73	44.19	358.00	5.33	13.00	16.34	96.7%	96.7%	100.0%	98.9%
Burnaby South	2019	8449	5.10	2.42	4.18	6.68	15.66	18.36	146.94	351.00	5.09	11.76	17.78	100.0%	100.0%	89.1%	95.7%
Burnaby-Kensington	2019	8594	4.51	2.17	3.81	5.97	13.62	15.71	27.02	358.00	4.51	9.85	12.07	97.8%	100.0%	97.8%	96.7%
Burns Lake	2019	8514	8.60	2.49	5.58	11.57	34.93	41.12	108.75	354.00	8.60	22.47	36.64	100.0%	100.0%	97.8%	90.2%
Campbell River	2019	8346	6.45	2.83	5.02	7.95	24.80	29.93	96.60	352.00	6.42	15.42	20.35	93.3%	100.0%	92.4%	100.0%
Castlegar	2019	8089	6.71	2.76	5.09	9.00	22.70	26.86	76.96	337.00	6.72	17.79	26.11	72.2%	96.7%	100.0%	100.0%
Chilliwack	2019	8535	6.30	2.77	5.13	8.44	19.61	22.29	60.20	352.00	6.27	14.73	18.94	98.9%	94.5%	95.7%	96.7%
Colwood	2019	7111	.	.	.	.	.	.	.	298.00	.	.	16.06	98.9%	95.6%	98.9%	33.7%
Courtenay	2019	8627	7.73	3.00	5.00	9.00	38.00	43.00	85.00	359.00	7.74	24.42	30.04	97.8%	95.6%	100.0%	100.0%
Cranbrook Muriel Baxter	2019	7716	5.29	0.64	2.48	6.73	29.03	33.59	81.69	315.00	5.28	13.50	36.03	91.1%	90.1%	65.2%	98.9%
Crofton Elementary	2019	4934	.	.	.	.	.	.	.	201.00	.	.	18.70	.	80.2%	53.3%	85.9%
Crofton-Substation	2019	8673	5.57	3.00	5.00	7.00	17.00	19.28	168.00	365.00	5.58	13.00	17.67	100.0%	100.0%	100.0%	100.0%
Duncan-College St	2019	8640	7.73	3.00	6.00	10.00	29.00	35.00	66.00	361.00	7.74	21.67	33.92	100.0%	95.6%	100.0%	100.0%
Duncan-Deykin	2019	8686	7.18	3.00	6.00	10.00	22.00	25.15	214.00	362.00	7.18	17.88	26.83	100.0%	97.8%	98.9%	100.0%
Fort St. John	2019	6298	.	.	.	.	.	.	.	260.00	.	.	38.64	97.8%	95.6%	63.0%	29.3%
Golden	2019	8722	8.54	2.98	5.55	10.24	37.70	45.94	130.41	364.00	8.56	23.22	54.04	100.0%	98.9%	100.0%	100.0%
Grand Forks	2019	8697	8.94	3.42	6.15	11.06	35.73	42.66	84.96	362.00	8.93	24.45	30.88	100.0%	100.0%	100.0%	96.7%
Harmac	2019	8673	8.34	3.00	6.00	11.00	36.00	45.00	137.00	364.00	8.34	25.54	37.67	100.0%	100.0%	98.9%	100.0%
Hope	2019	8476	4.81	2.51	4.11	6.25	13.58	15.86	61.88	351.00	4.80	9.98	15.56	98.9%	98.9%	97.8%	89.1%
Horseshoe Bay	2019	8298	3.93	1.92	3.30	5.21	11.62	13.77	84.58	339.00	3.91	9.35	20.36	90.0%	86.8%	94.6%	100.0%
Houston	2019	8621	10.55	2.62	5.68	11.59	61.60	74.42	131.11	359.00	10.56	30.78	44.78	100.0%	93.4%	100.0%	100.0%
Kamloops-Fed. Bldg.	2019	8644	7.40	3.69	6.09	9.90	20.75	23.19	46.47	355.00	7.43	16.86	20.67	100.0%	94.5%	97.8%	96.7%
Kelowna-College	2019	3847	.	.	.	.	.	.	.	159.00	.	.	13.33	100.0%	75.8%	.	.
Kelowna-KLO Road	2019	2639	.	.	.	.	.	.	.	110.00	.	.	18.64	.	.	20.7%	98.9%
Kitimat-Haisla	2019	7836	4.04	1.00	3.00	6.00	15.00	19.00	55.00	329.00	4.03	10.54	16.83	100.0%	100.0%	94.6%	66.3%
Kitimat-Riverlodge	2019	8582	4.53	2.00	4.00	6.00	16.00	20.00	153.00	359.00	4.53	10.79	24.08	100.0%	98.9%	94.6%	100.0%
Kitimat-Whitesail	2019	8617	4.39	2.00	4.00	6.00	14.00	19.00	65.00	360.00	4.39	10.29	19.88	100.0%	100.0%	94.6%	100.0%
Langdale	2019	8333	3.45	0.00	2.00	5.00	15.00	17.00	32.00	359.00	3.42	9.42	11.29	96.7%	98.9%	100.0%	97.8%
Langley	2019	8593	5.77	2.29	4.07	6.89	23.52	29.02	112.28	357.00	5.77	18.01	26.50	98.9%	100.0%	97.8%	94.6%
Lavington	2019	3048	.	.	.	.	.	.	.	126.00	.	.	20.68	100.0%	39.6%	.	.
Mission	2019	8647	5.87	2.18	4.27	7.65	21.83	27.93	104.11	359.00	5.86	17.24	27.30	98.9%	100.0%	94.6%	100.0%
N. Vancouver-2nd Narrows	2019	8359	6.93	3.68	5.85	8.90	20.56	22.65	45.78	347.00	6.94	14.74	18.99	100.0%	98.9%	98.9%	82.6%
N. Vancouver-Mahon Park	2019	8606	4.47	2.26	3.82	5.89	13.40	15.79	43.70	355.00	4.49	11.07	14.07	98.9%	98.9%	93.5%	97.8%
Nanaimo	2019	8583	3.97	1.00	3.00	6.00	14.00	16.00	186.00	358.00	3.96	10.42	43.88	100.0%	95.6%	96.7%	100.0%

2019 Fine Particulate Matter

Site	Year	No. Valid Hrs	Annual Avg	Percentiles (1h)					Max 1h	No. Valid Days	24h Average			% of Valid Days Per Quarter			
				25th	50th	75th	98th	99th			Annual Avg	Annual 98th Percentile*	Annual Max	Q1	Q2	Q3	Q4
New Westminster	2019	8731	6.34	3.56	5.37	7.99	18.22	21.61	71.87	364.00	6.34	13.62	21.17	100.0%	100.0%	98.9%	100.0%
North Delta	2019	7883	5.71	3.03	4.84	7.48	16.38	19.11	53.31	323.00	5.72	12.93	17.26	93.3%	74.7%	91.3%	94.6%
Pitt Meadows	2019	8620	5.17	2.17	4.35	7.00	16.27	19.16	55.09	360.00	5.17	13.07	21.77	97.8%	100.0%	96.7%	100.0%
Port Alberni-Elem. School	2019	7932	8.72	4.00	6.00	10.01	32.98	37.99	170.91	329.00	8.75	23.50	29.00	100.0%	98.9%	62.0%	100.0%
Port Moody	2019	8644	4.89	2.29	4.11	6.52	14.16	17.31	190.04	361.00	4.91	9.88	15.95	100.0%	100.0%	95.7%	100.0%
Powell River-J Thomson	2019	8054	2.07	0.30	1.36	2.82	9.47	12.53	66.00	336.00	2.07	5.69	9.47	72.2%	100.0%	95.7%	100.0%
Prince George-Plaza 400	2019	4614	.	.	.	.	.	.	.	192.00	.	.	35.01	100.0%	98.9%	13.0%	.
Prince Rupert Fairview	2019	8649	3.23	1.27	2.50	4.34	10.83	13.47	30.29	360.00	3.23	9.07	13.68	100.0%	100.0%	98.9%	95.7%
Quesnel	2019	8737	8.92	3.02	6.45	12.15	33.38	38.97	144.60	364.00	8.93	25.64	35.25	100.0%	98.9%	100.0%	100.0%
Richmond South	2019	8655	5.88	2.88	4.73	7.46	18.81	24.20	84.38	360.00	5.89	15.51	28.93	97.8%	100.0%	97.8%	98.9%
Richmond-Airport	2019	8657	5.21	2.45	4.15	6.65	17.15	20.12	71.53	360.00	5.20	13.68	21.94	98.9%	98.9%	98.9%	97.8%
Smithers	2019	7873	8.52	2.91	5.44	10.56	35.13	41.73	161.19	323.00	8.52	22.21	30.29	65.6%	94.5%	94.6%	98.9%
Squamish	2019	8527	4.80	2.00	4.00	7.00	15.00	17.00	44.00	359.00	4.79	11.13	15.88	98.9%	94.5%	100.0%	100.0%
Surrey	2019	8639	5.76	2.99	4.80	7.29	17.08	19.82	61.38	359.00	5.76	13.25	19.34	96.7%	100.0%	97.8%	98.9%
Terrace	2019	8652	5.92	2.14	3.75	6.98	27.19	34.70	121.42	359.00	5.94	16.17	25.82	100.0%	98.9%	100.0%	94.6%
Tsawwassen	2019	8635	4.34	2.27	3.46	5.38	14.09	16.58	48.38	358.00	4.35	11.09	18.46	98.9%	97.8%	95.7%	100.0%
Valemount	2019	2873	.	.	.	.	.	.	.	118.00	.	.	31.11	30.0%	91.2%	.	8.7%
Vancouver-Clark Dr	2019	8718	7.20	3.88	5.94	8.78	22.14	25.85	179.69	364.00	7.20	18.19	46.19	100.0%	100.0%	98.9%	100.0%
Vanderhoof	2019	6973	.	.	.	.	.	.	.	289.00	.	.	41.04	95.6%	42.9%	80.4%	97.8%
Vernon	2019	8574	7.97	3.66	6.24	10.84	23.54	25.76	78.30	356.00	7.95	18.88	28.66	98.9%	97.8%	97.8%	95.7%
Victoria	2019	8653	6.75	3.00	6.00	8.00	24.00	31.00	110.00	361.00	6.75	16.71	26.13	100.0%	95.6%	100.0%	100.0%
Whistler	2019	8425	4.91	1.00	4.00	6.00	22.00	27.00	73.00	354.00	4.90	14.88	22.21	98.9%	89.0%	100.0%	100.0%
Williams Lake	2019	8652	7.08	2.36	4.87	9.57	26.38	30.77	70.68	358.00	7.10	18.07	21.40	98.9%	93.4%	100.0%	100.0%
*Percentile of 24h average concentrations based on approach outlined in "Guidance Document on Achievement Determination. Canadian Ambient Air Quality Standards for Fine Particulate Matter and Ozone" at:																	
https://www.ccme.ca/files/Resources/air/aqms/pn_1483_gdad_eng.pdf																	

Summary 2019 Ozone

Site	Year	No. Valid Hrs	Annual Avg.	Percentiles (1h)					1h Max	Daily 8h Max		No. Days >63 ppb	% of Valid Days Per Quarter				
				25th	50th	75th	98th	99th		Annual Max	Annual 4th Highest		Q1	Q2	Q3	Q4	Q2+Q3
Vancouver-Dwtn	2019	8656	10.11	2.46	8.01	16.04	30.54	33.21	52.66	38.96	34.42	0.00	97.8	100.0	97.8	96.7	98.9
Vancouver-Clark Dr	2019	8602	11.49	1.18	9.13	19.27	35.64	38.21	47.07	40.82	38.39	0.00	98.9	100.0	100.0	92.4	100.0
North Vancouver Second Narrows	2019	8702	13.60	5.32	12.39	20.14	35.92	38.49	47.50	42.47	39.70	0.00	100.0	98.9	98.9	100.0	98.9
Terrace	2019	7468	17.78	9.22	18.27	25.49	37.83	39.21	49.25	45.61	40.33	0.00	65.6	87.9	94.6	100.0	91.3
Burnaby South	2019	8592	16.97	7.95	16.85	25.07	38.61	40.78	47.15	42.41	41.15	0.00	97.8	97.8	94.6	98.9	96.2
New Westminster	2019	8507	12.62	1.48	9.52	21.34	39.45	41.39	52.81	48.15	41.94	0.00	97.8	98.9	88.0	97.8	93.4
Burnaby-Kensington	2019	8689	17.28	8.20	16.86	25.29	40.13	41.85	52.20	45.16	42.52	0.00	94.4	100.0	100.0	100.0	100.0
Richmond-Airport	2019	8704	16.37	4.64	16.05	25.86	40.38	42.57	52.90	44.02	43.20	0.00	98.9	98.9	98.9	98.9	98.9
Port Moody	2019	8710	13.03	2.72	10.74	20.57	40.15	42.16	56.06	48.91	43.22	0.00	97.8	100.0	100.0	100.0	100.0
North Delta	2019	8588	17.53	7.77	17.41	25.96	40.92	43.12	51.20	45.35	43.95	0.00	96.7	90.1	98.9	100.0	94.5
N. Vancouver-Mahon Park	2019	8689	17.16	7.20	16.67	26.01	40.55	42.87	55.52	50.17	44.22	0.00	98.9	100.0	96.7	100.0	98.4
Victoria-Topaz	2019	8342	19.57	10.45	19.79	27.82	41.75	43.39	49.43	45.90	44.28	0.00	98.9	97.8	97.8	98.9	97.8
Richmond South	2019	8728	16.51	2.93	15.99	27.02	42.16	44.02	55.16	48.30	44.65	0.00	98.9	100.0	100.0	100.0	100.0
Tsawwassen	2019	8651	21.78	13.54	22.69	30.34	42.45	44.04	55.63	46.97	45.11	0.00	97.8	97.8	96.7	98.9	97.3
Smithers	2019	7867	13.45	2.35	10.81	21.61	41.61	43.94	52.29	48.06	45.17	0.00	74.4	90.1	97.8	97.8	94.0
Burnaby-Mtn	2019	8410	25.45	19.00	25.59	32.57	43.46	44.90	59.76	50.74	45.36	0.00	91.1	90.1	98.9	100.0	94.5
Prince Rupert Fairview	2019	8682	20.81	11.01	20.91	30.03	43.13	44.64	49.70	47.45	45.60	0.00	95.6	100.0	96.7	98.9	98.4
Nanaimo	2019	8302	22.34	14.89	22.49	30.02	41.59	43.59	51.22	46.90	45.97	0.00	98.9	98.9	94.6	98.9	96.7
Squamish	2019	8494	17.06	6.40	15.37	26.55	43.70	45.56	56.24	48.84	46.17	0.00	85.6	100.0	100.0	97.8	100.0
Coquitlam	2019	8716	16.32	5.59	15.05	24.65	42.99	45.13	60.94	53.14	46.19	0.00	98.9	100.0	98.9	98.9	99.5
Pitt Meadows	2019	8691	16.84	4.40	16.41	26.68	43.68	45.62	59.40	52.41	46.45	0.00	97.8	100.0	100.0	98.9	100.0
Abbotsford-Mill Lake	2019	8725	19.09	8.30	18.28	28.78	44.66	46.28	64.08	53.96	47.14	0.00	98.9	100.0	100.0	100.0	100.0
Langley	2019	8705	19.97	9.33	19.78	29.67	45.07	46.78	58.40	53.80	47.43	0.00	98.9	98.9	100.0	98.9	99.5
Quesnel	2019	8358	14.33	3.92	12.07	22.66	42.61	45.83	57.11	55.30	48.01	0.00	100.0	91.2	98.9	98.9	95.1
Surrey	2019	8703	20.31	10.50	20.32	29.27	45.60	47.46	55.84	52.19	48.04	0.00	96.7	100.0	100.0	98.9	100.0
Courtenay	2019	8297	19.56	8.21	19.40	29.20	43.86	46.12	55.21	51.10	48.20	0.00	97.8	96.7	95.7	100.0	96.2
Abbotsford-Airport	2019	8613	20.09	9.49	19.44	29.91	45.12	47.11	63.78	55.59	48.29	0.00	95.6	98.9	100.0	100.0	99.5
Duncan	2019	8339	17.65	5.22	16.27	28.19	45.08	47.30	60.57	53.28	48.53	0.00	98.9	98.9	97.8	96.7	98.4
Whistler	2019	8520	21.35	10.35	20.49	31.68	46.58	48.16	56.20	51.93	49.11	0.00	98.9	98.9	95.7	87.0	97.3
Castlegar	2019	8260	19.93	9.81	18.22	28.38	45.50	48.05	57.16	51.89	49.14	0.00	97.8	98.9	91.3	100.0	95.1
Kamloops-Fed. Bldg.	2019	8358	19.64	8.68	19.15	29.44	44.88	47.35	55.63	51.63	49.27	0.00	100.0	96.7	96.7	100.0	96.7
Colwood	2019	8280	21.70	11.30	22.15	30.93	45.98	48.21	60.98	51.69	49.95	0.00	95.6	98.9	100.0	98.9	99.5
Maple Ridge	2019	8726	18.84	7.94	18.42	28.10	45.34	47.51	62.39	56.29	50.24	0.00	98.9	100.0	100.0	100.0	100.0
Chilliwack	2019	8688	18.84	7.00	17.98	29.17	45.39	47.37	70.31	59.21	51.12	0.00	98.9	100.0	100.0	95.7	100.0

Summary 2019 Ozone

Site	Year	No. Valid Hrs	Annual Avg.	Percentiles (1h)					Daily 8h Max			No. Days >63 ppb	% of Valid Days Per Quarter				
				25th	50th	75th	98th	99th	1h Max	Annual Max	Annual 4th Highest		Q1	Q2	Q3	Q4	Q2+Q3
Agassiz	2019	8725	18.85	8.04	18.06	28.57	44.45	46.04	69.31	53.73	51.16	0.00	98.9	100.0	100.0	100.0	100.0
Williams Lake	2019	7983	19.63	8.28	18.93	28.59	47.44	49.44	58.77	54.17	51.24	0.00	80.0	92.3	98.9	100.0	95.6
Prince George-Plaza 400	2019	8369	18.56	6.65	17.87	27.94	45.20	47.95	62.89	54.78	51.47	0.00	100.0	95.6	100.0	98.9	97.8
Farmington	2019	8368	25.15	16.97	25.77	33.62	47.12	49.52	60.74	54.70	51.85	0.00	98.9	97.8	98.9	97.8	98.4
Vernon	2019	8328	19.21	7.63	17.74	29.33	46.00	47.51	57.34	54.56	51.98	0.00	97.8	97.8	95.7	98.9	96.7
Fort St. John	2019	7548	23.53	15.07	23.28	31.22	47.25	49.71	67.56	56.43	52.08	0.00	98.9	81.3	95.7	79.3	88.5
Mission	2019	8701	20.75	11.41	20.25	29.53	44.82	47.13	70.02	56.85	52.11	0.00	96.7	100.0	98.9	98.9	99.5
Taylor-Townsite	2019	8289	21.09	10.59	20.91	30.16	47.75	49.77	61.17	57.77	52.48	0.00	98.9	95.6	95.7	95.7	95.6
Hope	2019	8716	18.82	6.84	17.67	29.34	45.87	48.46	72.04	56.59	52.99	0.00	98.9	100.0	100.0	100.0	100.0
Cranbrook	2019	7719	25.46	16.57	25.53	33.94	48.26	50.52	58.27	55.10	<u>53.01</u>	0.00	97.8	94.5	71.7	98.9	83.1
Kelowna-College	2019	3485	28.31	.	.	.	.	.	.	.	.	.	100.0	67.0	.	.	33.3
Kelowna-KLO Road	2019	2520	14.01	.	.	.	.	.	.	.	.	.	.	.	20.7	96.7	10.4
Kitimat-Whitesail	2019	4189	14.94	.	.	.	.	.	.	.	.	.	.	.	93.5	96.7	47.0

Summary 2019 Sulfur Dioxide

Site	Year	No. Valid Hrs	Annual Avg	Percentiles (1h)					Max	No. Valid Days	Percentiles (D1HM)*			No. of Days		% of Valid Days Per Quarter			
				25th	50th	75th	98th	99th			97.5th	98th	99th	>75 ppb	>70 ppb	Q1	Q2	Q3	Q4
Abbotsford-Airport	2019	8352	0.20	0.07	0.13	0.25	0.84	1.21	5.22	360	2.4	2.6	3.1	0	0	96.7	100.0	100.0	97.8
Abbotsford-Mill Lake	2019	8711	0.15	0.04	0.09	0.16	0.88	1.29	6.40	364	2.7	2.8	3.4	0	0	100.0	98.9	100.0	100.0
Bessborough	2019	8069	0.36	0.10	0.19	0.36	1.75	2.75	30.07	350	13	16.8	20.9	0	0	91.1	94.5	98.9	98.9
Burnaby North	2019	8705	0.49	0.14	0.31	0.62	2.26	2.99	8.52	362	4.8	5	6	0	0	96.7	100.0	100.0	100.0
Burnaby South	2019	8241	0.34	0.11	0.20	0.41	1.68	2.09	19.36	357	3.6	3.6	4.5	0	0	97.8	100.0	94.6	98.9
Burnaby-Capitol Park	2019	8738	0.52	0.07	0.16	0.42	3.74	7.07	53.14	365	20.1	22.6	28.7	0	0	100.0	100.0	100.0	100.0
Burnaby-Kensington	2019	8661	0.38	0.13	0.26	0.51	1.56	2.01	12.18	361	4.2	4.3	6.3	0	0	95.6	100.0	100.0	100.0
Castlegar	2019	8356	1.64	0.04	0.12	0.84	16.12	21.63	40.93	363	32.6	33.6	39.5	0	0	97.8	100.0	100.0	100.0
Chilliwack	2019	8364	0.14	0.05	0.10	0.18	0.60	0.87	4.77	364	1.4	1.8	2.7	0	0	98.9	100.0	100.0	100.0
Farmington	2019	8248	0.28	0.08	0.15	0.30	1.41	2.09	44.54	355	4.3	4.9	10.5	0	0	98.9	98.9	98.9	92.4
Fort St. John	2019	7139	0.32	0.14	0.21	0.32	1.59	2.12	10.15	304	3.6	4.3	5.4	0	0	83.3	71.4	98.9	79.3
Kamloops-Fed. Bldg.	2019	8361	0.23	0.09	0.17	0.28	0.93	1.22	11.07	362	2.5	2.7	4.3	0	0	100.0	98.9	97.8	100.0
Kelowna-College	2019	1582	.	.	.	.	.	.	.	68	.	.	.	.	.	75.6	.	.	.
Kelowna-KLO Road	2019	2534	.	.	.	.	.	.	.	109	.	.	.	.	.	.	.	20.7	97.8
Kitimat Haul Road	2019	8299	4.55	0.17	0.61	4.14	37.61	46.59	86.98	360	71.3	73	81.6	5	9	100.0	97.8	100.0	96.7
Kitimat-Haisla	2019	8335	0.26	0.04	0.08	0.14	2.40	4.09	72.84	365	11.5	14.3	17.9	0	1	100.0	100.0	100.0	100.0
Kitimat-Riverlodge	2019	8328	0.51	0.06	0.13	0.25	4.93	8.51	66.56	363	25.6	31.5	39	0	0	98.9	98.9	100.0	100.0
Kitimat-Whitesail	2019	8320	0.37	0.07	0.12	0.18	3.39	5.58	43.65	362	15	18.2	21.7	0	0	98.9	98.9	98.9	100.0
Langdale	2019	7171	0.64	0.20	0.37	0.72	3.32	4.31	13.42	307	7.4	7.7	9.4	0	0	96.7	83.5	96.7	59.8
Langley	2019	8605	0.17	0.06	0.09	0.17	1.03	1.39	7.45	359	3	3.1	3.7	0	0	98.9	100.0	100.0	94.6
N. Vancouver-Mahon Park	2019	8659	0.25	0.06	0.14	0.30	1.24	1.65	8.86	358	3.1	3.1	4.2	0	0	98.9	100.0	93.5	100.0
North Vancouver Second Narrows	2019	8694	0.28	0.08	0.17	0.37	1.17	1.42	5.69	362	2.3	2.4	3.3	0	0	98.9	98.9	98.9	100.0
Pitt Meadows	2019	8328	0.37	0.12	0.22	0.43	1.73	2.19	6.97	362	3.1	3.6	4.7	0	0	96.7	100.0	100.0	100.0
Port Moody	2019	8446	0.27	0.04	0.11	0.28	1.75	2.09	4.81	362	3	3.1	3.9	0	0	98.9	97.8	100.0	100.0
Prince George-Plaza 400	2019	7817	1.16	0.14	0.36	0.99	8.77	12.96	43.52	338	25.3	28.5	31.2	0	0	93.3	76.9	100.0	100.0
Prince Rupert-Fairview	2019	8686	0.27	0.11	0.22	0.37	0.88	1.00	2.56	361	1.4	1.4	1.6	0	0	96.7	100.0	98.9	100.0
Quesnel	2019	8248	0.41	0.20	0.32	0.47	1.43	2.00	20.35	356	6	6.3	9.6	0	0	94.4	97.8	100.0	97.8
Richmond South	2019	8627	0.26	0.06	0.15	0.34	1.23	1.44	4.84	365	2.3	2.5	3	0	0	100.0	100.0	100.0	100.0
Richmond-Airport	2019	8324	0.37	0.11	0.24	0.50	1.51	1.85	6.90	364	2.8	2.9	3	0	0	98.9	100.0	100.0	100.0
Squamish	2019	7680	0.28	0.12	0.21	0.34	1.08	1.32	7.33	330	3.6	4.9	5.8	0	0	80.0	97.8	95.7	88.0
Taylor-S. Hill	2019	8367	0.40	0.06	0.12	0.28	2.89	4.68	61.36	365	12.1	16.7	26.4	0	0	100.0	100.0	100.0	100.0
Taylor-Townsite	2019	8371	0.95	0.08	0.18	0.47	9.21	17.07	76.80	365	49.6	50.6	57.8	1	3	100.0	100.0	100.0	100.0
Terrace	2019	7642	0.48	0.11	0.23	0.59	2.48	2.92	7.45	326	4.2	4.4	5.3	0	0	100.0	68.1	90.2	98.9
Trail-Birchbank	2019	7924	5.33	0.22	0.65	5.41	38.78	46.97	176.56	343	72.6	77.6	93.8	8	11	97.8	85.7	90.2	100.0

Summary 2019 Sulfur Dioxide

Site	Year	No. Valid Hrs	Annual Avg	Percentiles (1h)					Max	No. Valid Days	Percentiles (D1HM)*			No. of Days		% of Valid Days Per Quarter			
				25th	50th	75th	98th	99th			97.5th	98th	99th	>75 ppb	>70 ppb	Q1	Q2	Q3	Q4
Trail-Butler Park	2019	7923	7.49	0.37	1.67	6.58	61.94	80.33	195.17	345	122.8	131.3	147	73	78	96.7	86.8	90.2	100.0
Trail-Columbia Gardens Airport	2019	8363	3.25	0.18	0.49	2.95	23.40	29.91	71.47	365	47.9	54.1	59	0	1	100.0	100.0	100.0	100.0
Tsawwassen	2019	8494	0.17	0.02	0.08	0.22	0.90	1.25	4.82	358	2.5	2.5	3.6	0	0	94.4	97.8	100.0	100.0
Vancouver-Clark Dr	2019	8505	0.41	0.15	0.30	0.54	1.51	1.82	7.13	359	3.1	3.1	4.1	0	0	100.0	100.0	100.0	93.5
Vancouver-Dwtn	2019	8725	0.31	0.12	0.23	0.40	1.18	1.41	5.07	364	2.1	2.2	2.7	0	0	98.9	100.0	100.0	100.0
Vancouver-Pandora	2019	8730	0.59	0.23	0.42	0.75	2.29	2.91	11.97	364	4.5	4.8	6.6	0	0	98.9	100.0	100.0	100.0
Victoria-James Bay	2019	8320	0.10	0.02	0.06	0.10	0.60	0.80	3.13	347	1.7	2.2	2.5	0	0	87.8	92.3	100.0	100.0
Victoria-Topaz	2019	8344	0.28	0.08	0.15	0.35	1.41	1.90	7.01	364	3.6	4	5.6	0	0	100.0	98.9	100.0	100.0
Williams Lake	2019	79	.	.	.	.	.	.	.	3	.	.	.	.	.	3.3	.	.	.