

**Total Dustfall Results for Wildwood Landfill**

Results are expressed as mg / 100 cm<sup>2</sup> / 30 days

Date	#1	#2	#3	#4	TB
2006	41	41	75	23	18
Jul 2007	25	22	40/29	10	ND
Aug 2007	39	29/30	33	11	4
Sep 2007	29	27	85/76	26	13
Jul 2008	37	46/38	33	24	9
Aug 2008	30	33/36	17	22	1
Sep 2008	41	44/31	30	22	7
Jul 2009	22	24	24	8 <sup>1</sup>	ND
Aug 2009	17	21/16	16	20	ND
Sep 2009	see note 2	10/7	11	10	ND
Jul 2010	39	23	15/20	9	ND
Aug 2010	34	17/13	30	7	ND
Sep 2010 <sup>2</sup>	13	ND	ND	ND	ND
Jul 2011	19	10/29	14	23	ND
Aug 2011	85	6/ND	25	13	ND
Sep 2011	18	NA <sup>3</sup>	12	ND	ND
Jul 2012	39	13/17	21	17	ND
Aug 2012	26	25/41	25	18	ND
Sep 2012	79	43/32	26	13	15
Jul 2013	31	48	37/45	111 <sup>5</sup>	ND
Aug 2013	21/22	ND	18	23	ND
Sep 2013	25	ND / ND	32	45	13
Jul 2014	35	120	37	29/34	26
July Fixed <sup>6</sup>	11	ND	ND	ND/11	ND
Aug 2014	28/ND	9	10	28	30
Sep 2014	ND	ND/ND	ND	ND	ND
Jul 2015	51	15	44/25	24	55
Aug 2015	81/24	18	27	44	ND
Sep 2015	14	9	ND	ND/ND	15
Jul 2016	111	see note 7	106	103/108	64
Jul 2016 <sup>8</sup>	50		45	42/47	NA
Aug 2016 <sup>9</sup>	49/132	29	159	92	ND
Sep 2016 <sup>10</sup>	NA	62	63	52	62
Jul 2017	34	21	17/31	12	ND
Aug 2017 <sup>11</sup>	106	104	105	93/75	85
Sep 2017	30/37	25	41	13	ND
Jul 2018	41	10	63/25	32	33
Aug 2018	15	12	14/22	16	ND
Sep 2018 <sup>12</sup>	86/45	141	53	149	22
Jul 2019 <sup>13</sup>	143	174	166/141	189	153
Aug 2019 <sup>13</sup>	70	29	78	162/179	41
Sep 2019 <sup>13</sup>	172/53	87	199	56	36
Jul 2020 <sup>14</sup>	52	64	ND/63	62	ND
Aug 2020 <sup>14</sup>	49	68	68	61/69	ND
Sep 2020 <sup>14</sup>	54/47	49	66	88	ND

TB = Trip Blank and ND = NonDetect

BC Objectives for Total Dustfall were **87.6** (other) and **52.5** (residential) until December 2016, when MOE abandoned objectives for dustfall.

Duplicates values are shown as run1/run2.

- Only a small portion of the sample was available for testing due to losses which occurred during shipping. Result is presented as a best estimate.
- About one-third into the sampling, a bird body was found in container #1. The body was removed from the container and sampling was resumed. However, the sample is considered compromised and the resultant measured value, 120 mg / 100 cm<sup>2</sup> / 30 days, is not considered valid.
- The rainfall in September 2010 was 98.4 mm compared to the 30-year average rainfall of 40.2 (July), 44.6 (August) and 55.5 mm (September). Results from Sept 2010 sampling thus reflect dust suppression by rainfall.
- The tripod for the #2 monitor (Sept 2011) was knocked over just prior to completing the test. Neither the sample nor the duplicate are available.
- On July 23, during construction, a load of gravel was placed next to dustfall monitor #4. The following day the monitor was moved about 25 feet. The high reading likely resulted from the placement of the gravel.
- July 2014 results are unusual in two regards. First, the trip blank is very high, and second the #2 monitor is very high. While unusual, these high numbers are not a concern, given the "fixed" fraction for all samples is very low. The fixed fraction is the maximum portion of the total dustfall that could be due to flyash.
- The July 2016 results for monitor #2 are not available due to a bird landing in the sample jar.
- The July 2016 result for *the trip blank*, a jar which is never even opened at the landfill, was elevated due to the large amount of water (containing copper sulphate) added to prevent the jar from drying out. Because the same amount of copper sulphate solution was also added to the samples, results for the samples are also provided with a blank correction, as shown in the second line. Note that the blank-corrected results, which should be considered the true final results, are all below the threshold for residential.
- During August 2016, Telus work in the area near the landfill involved digging/drilling some new holes for poles and anchor blocks, tree trimming, dropping, and removal, concrete placement for anchor blocks, and the installation of a new line. It is not known how this work may have contributed to the numbers this month.
- During September 2016, two sample bottles (from sites #1 and #2 duplicate) were found knocked off the tripods at the end of the sampling round, presumably by a bear. In addition, results for the dissolved fraction of the trip blank (59) indicate the dustfall measured in the samples likely came from the copper sulphate solution.
- August 2017 results for all of the monitors are put into question by the very high Trip Blank results.
- Brush clearing activities near the dustfall collection jars in September 2018 likely contributed to the higher measured levels this month.
- The results for July and August 2019 are biased high due to an error made in preparing the algacide solution at the consultant's laboratory. A miscalculation of the solid CuSO<sub>4</sub> reagent weight resulted in a higher concentration of solids in the solution initially added to the sample jars when they were deployed to the field. Some of the same solution may have unknowingly been added to the jars in September as well.
- Due to a total mill curtailment, no landfilling activities occurred from