

## Attachment B: Waiheke rainfall data

Rainfall data from January 2002 to 31 July 2019 has been analysed to provide the results shown in the table below.

Year	Days of rainfall in year	Total yearly rainfall (mm)	Days of rainfall 1 Jan to 31 July each year	Total rainfall from 1 Jan to 31 July	Potential activations per year and details		
					No. per year	Longest single period plan would have been activate	When that period occurred
2002	170	927	95	588	2	82 days	3 Feb - 25 Apr
2003	163	1,129	91	722	2	115 days	7 Oct - 30 Jan
2004	179	1,147	97	713	1	110 days	28 Jan - 17 May
2005	160	921	87	530	3	74 days	11 Nov – 24 Jan
2006	164	1,088	95	704	1	63 days	21 Feb – 24 Apr
2007	157	965	89	596	2	47 days	20 May – 5 Jul
2008	185	1,156	101	732	2	40 days	14 Jan – 22 Feb
2009	174	934	108	560	4	109 days	31 Mar – 17 Jul
2010	162	1,077	86	545	2	90 days	20 Feb – 20 May
2011	178	1,316	108	933	2	22 days	23 Nov – 14 Dec
2012	152	946	86	612	2	47 days	1 Feb – 18 Mar
2013	135	1,073	72	548	4	95 days	15 Jan – 19 Apr
2014	163	972	82	506	1	48 days	28 Feb – 16 Apr
2015	153	815	92	468	3	107 days	21 Jan – 7 May
2016	170	1,220	98	725	3	78 days	22 Oct – 7 Jan
2017	176	1,506	103	1,208	1	71 days	7 Dec – 16 Feb
2018	189	1,496	120	1,003	0	27 days	8 Dec 17 – 3 Jan
2019 (to 31 Jul)			85	493	1	57 days	3 Feb – 31 Mar
Averages for full years	166	1,099	94	677	2		

The table above shows that the lowest yearly rainfall occurred in 2015 whilst the greatest occurred in 2017. The period from November to December 2017 only produced 36 millimetres of rainfall which is low.

The rainfall to 31 July 2019 is lower than the average period and this is also reflected in Watercare advice to be careful with water use on the Auckland Isthmus as rainfall is lower than normal.