

6 August 2021

Request for Official Information responded to under the Local Government and Official Information and Meetings Act 1987 (LGOIMA) – reference: 2122-17

I refer to your information request we received on 22 July 2021 for the following:

Can you please provide the daily Fluoride dosage levels from Jan 2009 through to the current date?

As requested, please see **attached** fluoride data.

Yours sincerely



Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Summary of Fluoride Monthly Results - January 2009 - May 2021

The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination of water and wastewater. - Washington D.C. : American Public Health Association, 23rd Edition 2017. Section 4500-F C.

The Drinking Water standards of New Zealand 2005(Revised 2018), MAV (maximum allowable value) 1.5 mg/L. The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons is 0.7 - 1.0 mg/L

S4 = BW35, both are the Waikanae Water Treatment plant

Date	Log No.	Site	Result mg/L	95%Confidence mg/L
7-Jan-09	090119	S4	1.02	+ or - 0.02
14-Jan-09	090253	S4	0.88	+ or - 0.02
21-Jan-09	090403	S4	1.02	+ or - 0.02
28-Jan-09	090501	S4	0.87	+ or - 0.02
4-Feb-09	090676	S4	1.01	+ or - 0.02
11-Feb-09	090810	S4	1.00	+ or - 0.02
18-Feb-09	091007	S4	0.76	+ or - 0.02
25-Feb-09	091150	S4	0.61	+ or - 0.02
4-Mar-09	091290	S4	0.89	+ or - 0.02
11-Mar-09	091425	S4	1.00	+ or - 0.02
18-Mar-09	091548	S4	0.95	+ or - 0.02
25-Mar-09	091685	S4	1.03	+ or - 0.02
1-Apr-09	091782	S4	1.02	+ or - 0.02
8-Apr-09	092038	S4	0.99	+ or - 0.02
15-Apr-09	092039	S4	0.99	+ or - 0.02
22-Apr-09	092162	S4	1.02	+ or - 0.02
28-Apr-09	092276	S4	1.00	+ or - 0.02
6-May-09	092427	S4	0.99	+ or - 0.02
13-May-09	092563	S4	0.97	+ or - 0.02
20-May-09	092741	S4	0.93	+ or - 0.02
27-May-09	092807	S4	0.96	+ or - 0.02
3-Jun-09	092925	S4	1.06	+ or - 0.02
10-Jun-09	093021	S4	1.01	+ or - 0.02
17-Jun-09	093141	S4	0.72	+ or - 0.02
24-Jun-09	093274	S4	1.01	+ or - 0.02
1-Jul-09	093386	S4	0.70	+ or - 0.02
8-Jul-09	093494	S4	1.29	+ or - 0.02
15-Jul-09	093627	S4	0.98	+ or - 0.02
22-Jul-09	093747	S4	0.95	+ or - 0.02
29-Jul-09	093865	S4	0.95	+ or - 0.02
5-Aug-09	093980	S4	1.01	+ or - 0.02
12-Aug-09	094117	S4	0.99	+ or - 0.02
19-Aug-09	094207	S4	1.01	+ or - 0.02
26-Aug-09	094320	S4	0.99	+ or - 0.02
2-Sep-09	094443	S4	1.01	+ or - 0.02
9-Sep-09	094533	S4	0.95	+ or - 0.02
16-Sep-09	094699	S4	0.98	+ or - 0.02
23-Sep-09	094804	S4	1.00	+ or - 0.02

30-Sep-09	094931	S4	0.97	+ or - 0.02
7-Oct-09	095056	S4	1.02	+ or - 0.02
14-Oct-09	095211	S4	0.98	+ or - 0.02
21-Oct-09	095320	S4	0.98	+ or - 0.02
28-Oct-09	095439	S4	0.99	+ or - 0.02
4-Nov-09	095550	S4	0.95	+ or - 0.02
11-Nov-09	095695	S4	0.93	+ or - 0.02
18-Nov-09	095822	S4	0.91	+ or - 0.02
25-Nov-09	096028	S4	0.92	+ or - 0.02
2-Dec-09	096134	S4	0.93	+ or - 0.02
9-Dec-09	096322	S4	0.95	+ or - 0.02
16-Dec-09	096439	S4	0.95	+ or - 0.02
23-Dec-09	096600	S4	0.94	+ or - 0.02
30-Dec-09	096740	S4	0.96	+ or - 0.02
6-Jan-10	100104	S4	0.95	+ or - 0.02
13-Jan-10	100242	S4	0.98	+ or - 0.02
20-Jan-10	100411	S4	0.97	+ or - 0.02
27-Jan-10	100503	S4	0.95	+ or - 0.02
3-Feb-10	100664	S4	0.95	+ or - 0.02
10-Feb-10	100800	S4	0.95	+ or - 0.02
17-Feb-10	100957	S4	0.93	+ or - 0.02
24-Feb-10	101073	S4	0.95	+ or - 0.02
3-Mar-10	101220	S4	0.95	+ or - 0.02
10-Mar-10	101360	S4	0.97	+ or - 0.02
17-Mar-10	101499	S4	0.98	+ or - 0.02
24-Mar-10	101605	S4	0.98	+ or - 0.02
31-Mar-10	101760	S4	0.99	+ or - 0.02
7-Apr-10	101842	S4	0.98	+ or - 0.02
14-Apr-10	102000	S4	1.02	+ or - 0.02
21-Apr-10	102144	S4	1.01	+ or - 0.02
28-Apr-10	102251	S4	1.01	+ or - 0.02
5-May-10	102360	S4	0.98	+ or - 0.02
12-May-10	102458	S4	0.99	+ or - 0.02
19-May-10	102589	S4	0.99	+ or - 0.02
26-May-10	102733	S4	0.97	+ or - 0.02
2-Jun-10	102859	S4	0.99	+ or - 0.02
9-Jun-10	102988	S4	0.96	+ or - 0.02
16-Jun-10	103106	S4	0.96	+ or - 0.02
23-Jun-10	103202	S4	0.98	+ or - 0.02
30-Jun-10	103310	S4	0.98	+ or - 0.02
7-Jul-10	103442	S4	1.01	+ or - 0.02
14-Jul-10	103565	S4	0.96	+ or - 0.02
21-Jul-10	103706	S4	0.98	+ or - 0.02
28-Jul-10	103843	S4	0.94	+ or - 0.02
4-Aug-10	104031	S4	0.93	+ or - 0.02
11-Aug-10	104108	S4	0.94	+ or - 0.02
18-Aug-10	104236	S4	0.92	+ or - 0.02
25-Aug-10	104356	S4	0.93	+ or - 0.02
1-Sep-10	104479	S4	0.90	+ or - 0.02

8-Sep-10	104584	S4	0.70	+ or - 0.02
15-Sep-10	104765	S4	0.69	+ or - 0.02
22-Sep-10	104939	S4	0.68	+ or - 0.02
29-Sep-10	105087	S4	0.69	+ or - 0.02
6-Oct-10	105228	S4	0.73	+ or - 0.02
13-Oct-10	105389	S4	0.72	+ or - 0.02
20-Oct-10	105498	S4	0.72	+ or - 0.02
27-Oct-10	105636	S4	0.74	+ or - 0.02
3-Nov-10	105758	S4	0.72	+ or - 0.02
10-Nov-10	105921	S4	0.74	+ or - 0.02
17-Nov-10	106062	S4	0.73	+ or - 0.02
24-Nov-10	106183	S4	0.74	+ or - 0.02
1-Dec-10	106350	S4	0.76	+ or - 0.02
8-Dec-10	106508	S4	0.77	+ or - 0.02
15-Dec-10	106637	S4	0.76	+ or - 0.02
22-Dec-10	106852	S4	0.72	+ or - 0.02
29-Dec-10	106952	S4	0.74	+ or - 0.02
5-Jan-11	110074	S4	0.76	+ or - 0.02
12-Jan-11	110247	S4	0.78	+ or - 0.02
19-Jan-11	110397	S4	0.78	+ or - 0.02
26-Jan-11	110521	S4	0.75	+ or - 0.02
2-Feb-11	110680	S4	0.75	+ or - 0.02
9-Feb-11	110816	S4	0.72	+ or - 0.02
16-Feb-11	110994	S4	0.76	+ or - 0.02
23-Feb-11	111117	S4	0.77	+ or - 0.02
2-Mar-11	111323	S4	0.77	+ or - 0.02
9-Mar-11	111439	S4	0.74	+ or - 0.02
16-Mar-11	111594	S4	0.77	+ or - 0.02
23-Mar-11	111698	S4	0.76	+ or - 0.02
30-Mar-11	111844	S4	0.73	+ or - 0.02
6-Apr-11	111969	S4	0.72	+ or - 0.02
13-Apr-11	112101	S4	0.73	+ or - 0.02
20-Apr-11	112210	S4	0.73	+ or - 0.02
27-Apr-11	112347	S4	0.69	+ or - 0.02
4-May-11	112431	S4	0.74	+ or - 0.02
11-May-11	112595	S4	0.72	+ or - 0.02
18-May-11	112679	S4	0.70	+ or - 0.02
25-May-11	112800	S4	0.74	+ or - 0.02
1-Jun-11	112926	S4	0.71	+ or - 0.02
8-Jun-11	113044	S4	0.70	+ or - 0.02
15-Jun-11	113136	S4	0.70	+ or - 0.02
22-Jun-11	113255	S4	0.68	+ or - 0.02
29-Jun-11	113376	S4	0.70	+ or - 0.02
6-Jul-11	113495	S4	0.73	+ or - 0.02
13-Jul-11	113622	S4	0.70	+ or - 0.02
20-Jul-11	113776	S4	0.72	+ or - 0.02
27-Jul-11	113889	S4	0.73	+ or - 0.02
3-Aug-11	113993	S4	0.73	+ or - 0.02
10-Aug-11	114104	S4	0.73	+ or - 0.02
17-Aug-11	114229	S4	0.74	+ or - 0.02

24-Aug-11	114357	S4	0.74	+ or - 0.02
31-Aug-11	114446	S4	0.74	+ or - 0.02
7-Sep-11	114561	S4	0.72	+ or - 0.02
14-Sep-11	114678	S4	0.69	+ or - 0.02
21-Sep-11	114804	S4	0.69	+ or - 0.02
28-Sep-11	114918	S4	0.69	+ or - 0.02
5-Oct-11	115020	S4	0.71	+ or - 0.02
12-Oct-11	115134	S4	0.72	+ or - 0.02
19-Oct-11	115261	S4	0.71	+ or - 0.02
26-Oct-11	115369	S4	0.73	+ or - 0.02
2-Nov-11	115470	S4	0.65	+ or - 0.02
9-Nov-11	115575	S4	0.70	+ or - 0.02
16-Nov-11	115704	S4	0.71	+ or - 0.02
23-Nov-11	115843	S4	0.71	+ or - 0.02
30-Nov-11	115969	S4	0.73	+ or - 0.02
7-Dec-11	116205	S4	0.73	+ or - 0.02
14-Dec-11	116266	S4	0.68	+ or - 0.02
21-Dec-11	116433	S4	0.72	+ or - 0.02
28-Dec-11	116529	S4	0.71	+ or - 0.02
4-Jan-12	120056	S4	0.67	+ or - 0.02
11-Jan-12	120196	S4	0.68	+ or - 0.02
18-Jan-12	120330	S4	0.72	+ or - 0.02
25-Jan-12	120460	S4	0.72	+ or - 0.02
1-Feb-12	120589	S4	0.71	+ or - 0.02
8-Feb-12	120713	S4	0.69	+ or - 0.02
15-Feb-12	120847	S4	0.71	+ or - 0.02
22-Feb-12	120949	S4	0.69	+ or - 0.02
29-Feb-12	121130	S4	0.69	+ or - 0.02
7-Mar-12	121275	S4	0.67	+ or - 0.02
14-Mar-12	121395	S4	0.67	+ or - 0.02
21-Mar-12	121522	S4	0.68	+ or - 0.02
28-Mar-12	121669	S4	0.66	+ or - 0.02
4-Apr-12	121792	S4	0.70	+ or - 0.02
11-Apr-12	121881	S4	0.70	+ or - 0.02
18-Apr-12	122014	S4	0.70	+ or - 0.02
25-Apr-12	122113	S4	0.70	+ or - 0.02
2-May-12	122230	S4	0.69	+ or - 0.02
9-May-12	122334	S4	0.69	+ or - 0.02
16-May-12	122488	S4	0.68	+ or - 0.02
23-May-12	122597	S4	0.69	+ or - 0.02
30-May-12	122700	S4	0.69	+ or - 0.02
6-Jun-12	122804	S4	0.69	+ or - 0.02
13-Jun-12	122941	S4	0.68	+ or - 0.02
20-Jun-12	123054	S4	0.69	+ or - 0.02
27-Jun-12	123142	S4	0.65	+ or - 0.02
4-Jul-12	123253	S4	0.68	+ or - 0.02
11-Jul-12	123364	S4	0.68	+ or - 0.02
18-Jul-12	123512	S4	0.65	+ or - 0.02
25-Jul-12	123784	S4	0.68	+ or - 0.02

1-Aug-12	123710	S4	0.69	+ or - 0.02
8-Aug-12	123788	S4	0.69	+ or - 0.02
15-Aug-12	123921	S4	0.67	+ or - 0.02
22-Aug-12	124006	S4	0.69	+ or - 0.02
29-Aug-12	124101	S4	0.67	+ or - 0.02
5-Sep-12	124182	S4	0.69	+ or - 0.02
12-Sep-12	124298	S4	0.57	+ or - 0.02
19-Sep-12	124419	S4	0.67	+ or - 0.02
26-Sep-12	124477	S4	0.67	+ or - 0.02
3-Oct-12	124587	S4	0.69	+ or - 0.02
10-Oct-12	124701	S4	0.70	+ or - 0.02
17-Oct-12	124843	S4	0.41	+ or - 0.02
24-Oct-12	124900	S4	0.69	+ or - 0.02
31-Oct-12	125001	S4	0.71	+ or - 0.02
7-Nov-12	125108	S4	0.70	+ or - 0.02
14-Nov-12	125228	S4	0.69	+ or - 0.02
21-Nov-12	125327	S4	0.69	+ or - 0.02
28-Nov-12	125453	S4	0.09	+ or - 0.02
5-Dec-12	125550	S4	0.69	+ or - 0.02
12-Dec-12	125701	S4	0.70	+ or - 0.02
19-Dec-12	125793	S4	0.71	+ or - 0.02
26-Dec-12	125931	S4	0.73	+ or - 0.02
2-Jan-13	130053	S4	0.69	+ or - 0.02
9-Jan-13	130193	S4	0.74	+ or - 0.02
16-Jan-13	130294	S4	0.66	+ or - 0.02
23-Jan-13	130453	S4	0.72	+ or - 0.02
30-Jan-13	130545	S4	0.74	+ or - 0.02
6-Feb-13	130707	S4	0.69	+ or - 0.02
13-Feb-13	130812	S4	0.71	+ or - 0.02
20-Feb-13	130936	S4	0.73	+ or - 0.02
27-Feb-13	131047	S4	0.74	+ or - 0.02
6-Mar-13	131139	S4	0.71	+ or - 0.02
13-Mar-13	131292	S4	0.72	+ or - 0.02
20-Mar-13	131393	S4	0.66	+ or - 0.02
27-Mar-13	131548	S4	0.69	+ or - 0.02
3-Apr-13	131634	S4	0.71	+ or - 0.02
10-Apr-13	131735	S4	0.69	+ or - 0.02
17-Apr-13	131860	S4	0.67	+ or - 0.02
24-Apr-13	131949	S4	0.67	+ or - 0.02
1-May-13	132068	S4	0.67	+ or - 0.02
8-May-13	132148	S4	0.63	+ or - 0.02
15-May-13	132359	S4	0.64	+ or - 0.02
22-May-13	132362	S4	0.65	+ or - 0.02
29-May-13	132493	S4	0.63	+ or - 0.02
5-Jun-13	132570	S4	0.65	+ or - 0.02
12-Jun-13	132666	S4	0.67	+ or - 0.02
19-Jun-13	132764	S4	0.64	+ or - 0.02
26-Jun-13	132867	S4	0.72	+ or - 0.02
3-Jul-13	132974	S4	0.69	+ or - 0.02
10-Jul-13	133068	S4	0.68	+ or - 0.02

17-Jul-13	133163	S4	0.67	+ or - 0.02
24-Jul-13	133279	S4	0.67	+ or - 0.02
31-Jul-13	133379	S4	0.69	+ or - 0.02
7-Aug-13	133931	S4	0.68	+ or - 0.02
14-Aug-13	133611	S4	0.64	+ or - 0.02
21-Aug-13	133707	S4	0.65	+ or - 0.02
28-Aug-13	133824	S4	0.66	+ or - 0.02
4-Sep-13	133930	S4	0.69	+ or - 0.02
11-Sep-13	134021	S4	0.68	+ or - 0.02
18-Sep-13	134118	S4	0.68	+ or - 0.02
25-Sep-13	314207	S4	0.64	+ or - 0.02
2-Oct-13	134309	S4	0.72	+ or - 0.02
9-Oct-13	134420	S4	0.69	+ or - 0.02
16-Oct-13	134531	S4	0.64	+ or - 0.02
23-Oct-13	134648	S4	0.64	+ or - 0.02
30-Oct-13	134728	S4	0.69	+ or - 0.02
6-Nov-13	134848	S4	0.69	+ or - 0.02
13-Nov-13	134946	S4	0.71	+ or - 0.02
20-Nov-13	135071	S4	0.73	+ or - 0.02
27-Nov-13	135204	S4	0.72	+ or - 0.02
4-Dec-13	135322	S4	0.70	+ or - 0.02
11-Dec-13	135486	S4	0.69	+ or - 0.02
18-Dec-13	135596	S4	0.79	+ or - 0.02
25-Dec-13	135789	S4	0.74	+ or - 0.02
1-Jan-14	140009	BW35	0.73	+ or - 0.02
8-Jan-14	140116	BW35	0.67	+ or - 0.02
15-Jan-14	140230	BW35	0.69	+ or - 0.02
22-Jan-14	140320	BW35	0.71	+ or - 0.02
29-Jan-14	140459	BW35	0.70	+ or - 0.02
5-Feb-14	140612	BW35	0.76	+ or - 0.02
12-Feb-14	140727	BW35	0.71	+ or - 0.02
19-Feb-14	140840	BW35	0.72	+ or - 0.02
26-Feb-14	140953	BW35	0.75	+ or - 0.02
5-Mar-14	141073	BW35	0.71	+ or - 0.02
12-Mar-14	141179	BW35	0.74	+ or - 0.02
19-Mar-14	141297	BW35	0.68	+ or - 0.02
26-Mar-14	141405	BW35	0.71	+ or - 0.02
2-Apr-14	141504	BW35	0.69	+ or - 0.02
9-Apr-14	141606	BW35	0.74	+ or - 0.02
16-Apr-14	141712	BW35	0.69	+ or - 0.02
23-Apr-14	141811	BW35	0.71	+ or - 0.02
30-Apr-14	141926	BW35	0.66	+ or - 0.02
7-May-14	142032	BW35	0.66	+ or - 0.02
14-May-14	142127	BW35	0.69	+ or - 0.02
21-May-14	142240	BW35	0.72	+ or - 0.02
28-May-14	142353	BW35	0.71	+ or - 0.02
4-Jun-14	142426	BW35	0.69	+ or - 0.02
11-Jun-14	142859	BW35	0.64	+ or - 0.02
18-Jun-14	142659	BW35	0.67	+ or - 0.02
25-Jun-14	142730	BW35	0.67	+ or - 0.02

2-Jul-14	142848	BW35	0.65	+ or - 0.02
9-Jul-14	142942	BW35	0.67	+ or - 0.02
16-Jul-14	143044	BW35	0.66	+ or - 0.02
23-Jul-14	143140	BW35	0.66	+ or - 0.02
30-Jul-14	143233	BW35	0.67	+ or - 0.02
6-Aug-14	143340	BW35	0.66	+ or - 0.02
13-Aug-14	143467	BW35	0.67	+ or - 0.02
20-Aug-14	143578	BW35	0.67	+ or - 0.02
27-Aug-14	143660	BW35	0.67	+ or - 0.02
3-Sep-14	143756	BW35	0.72	+ or - 0.02
10-Sep-14	143861	BW35	0.78	+ or - 0.02
17-Sep-14	143957	BW35	0.70	+ or - 0.02
24-Sep-14	144053	BW35	0.64	+ or - 0.02
1-Oct-14	144161	BW35	0.65	+ or - 0.02
8-Oct-14	114255	BW35	0.13	+ or - 0.02
15-Oct-14	144387	BW35	0.08	+ or - 0.02
22-Oct-14	144472	BW35	0.08	+ or - 0.02
29-Oct-14	144544	BW35	0.04	+ or - 0.02
5-Nov-14	144630	BW35	0.07	+ or - 0.02
12-Nov-14	144749	BW35	0.08	+ or - 0.02
19-Nov-14	144859	BW35	0.06	+ or - 0.02
26-Nov-14	145010	BW35	0.07	+ or - 0.02
3-Dec-14	145124	BW35	0.07	+ or - 0.02
10-Dec-14	145252	BW35	0.07	+ or - 0.02
17-Dec-14	145393	BW35	0.07	+ or - 0.02
24-Dec-14	145521	BW35	0.56	+ or - 0.02
31-Dec-14	145616	BW35	0.62	+ or - 0.02
7-Jan-15	150092	BW35	0.72	+ or - 0.02
14-Jan-15	150204	BW35	0.72	+ or - 0.02
21-Jan-15	150302	BW35	0.58	+ or - 0.02
28-Jan-15	150438	BW35	0.70	+ or - 0.02
4-Feb-15	150564	BW35	0.67	+ or - 0.02
11-Feb-15	150663	BW35	0.68	+ or - 0.02
18-Feb-15	150845	BW35	0.71	+ or - 0.02
25-Feb-15	150992	BW35	0.72	+ or - 0.02
4-Mar-15	151100	BW35	0.74	+ or - 0.02
11-Mar-15	151246	BW35	0.69	+ or - 0.02
18-Mar-15	151354	BW35	0.67	+ or - 0.02
25-Mar-15	151485	BW35	0.72	+ or - 0.02
1-Apr-15	151594	BW35	0.66	+ or - 0.02
8-Apr-15	151664	BW35	0.75	+ or - 0.02
15-Apr-15	151772	BW35	0.67	+ or - 0.02
22-Apr-15	151881	BW35	0.64	+ or - 0.02
29-Apr-15	151968	BW35	0.65	+ or - 0.02
6-May-15	152070	BW35	0.67	+ or - 0.02
13-May-15	152169	BW35	0.66	+ or - 0.02
20-May-15	152294	BW35	0.69	+ or - 0.02
27-May-15	152383	BW35	0.69	+ or - 0.02
3-Jun-15	152472	BW35	0.68	+ or - 0.02
10-Jun-15	152556	BW35	0.75	+ or - 0.02

17-Jun-15	152664	BW35	0.69	+ or - 0.02
24-Jun-15	152772	BW35	0.66	+ or - 0.02
8-Jul-15	152982	BW35	0.68	+ or - 0.02
15-Jul-15	153103	BW35	0.69	+ or - 0.02
22-Jul-15	153220	BW35	0.68	+ or - 0.02
29-Jul-15	153348	BW35	0.64	+ or - 0.02
5-Aug-15	153431	BW35	0.66	+ or - 0.02
12-Aug-15	153542	BW35	0.67	+ or - 0.02
19-Aug-15	153635	BW35	0.67	+ or - 0.02
26-Aug-15	153740	BW35	0.65	+ or - 0.02
2-Sep-15	153857	BW35	0.69	+ or - 0.02
9-Sep-15	153956	BW35	0.70	+ or - 0.02
16-Sep-15	154067	BW35	0.67	+ or - 0.02
23-Sep-15	154153	BW35	0.66	+ or - 0.02
30-Sep-15	154250	BW35	0.72	+ or - 0.02
7-Oct-15	154339	BW35	0.65	+ or - 0.02
14-Oct-15	154445	BW35	0.67	+ or - 0.02
21-Oct-15	154551	BW35	0.67	+ or - 0.02
28-Oct-15	154639	BW35	0.67	+ or - 0.02
4-Nov-15	154742	BW35	0.63	+ or - 0.02
11-Nov-15	154859	BW35	0.67	+ or - 0.02
18-Nov-15	154964	BW35	0.64	+ or - 0.02
25-Nov-15	155082	BW35	0.66	+ or - 0.02
2-Dec-15	155211	BW35	0.54	+ or - 0.02
9-Dec-15	155324	BW35	0.67	+ or - 0.02
16-Dec-15	155446	BW35	0.68	+ or - 0.02
23-Dec-15	155576	BW35	0.68	+ or - 0.02
30-Dec-15	155671	BW35	0.71	+ or - 0.02
6-Jan-16	160061	BW35	0.68	+ or - 0.02
13-Jan-16	160203	BW35	0.68	+ or - 0.02
20-Jan-16	160330	BW35	0.70	+ or - 0.02
27-Jan-16	160437	BW35	0.22*	+ or - 0.02
3-Feb-16	160554	BW35	0.09	+ or - 0.02
10-Feb-16	160660	BW35	0.11	+ or - 0.02
17-Feb-16	160769	BW35	0.09	+ or - 0.02
24-Feb-16	160897	BW35	0.69	+ or - 0.02
2-Mar-16	161055	BW35	0.70	+ or - 0.02
9-Mar-16	161186	BW35	0.70	+ or - 0.02
16-Mar-16	161289	BW35	0.71	+ or - 0.02
23-Mar-16	161416	BW35	0.69	+ or - 0.02
30-Mar-16	161534	BW35	0.69	+ or - 0.02
6-Apr-16	161679	BW35	0.70	+ or - 0.02
13-Apr-16	161792	BW35	0.67	+ or - 0.02
20-Apr-16	161871	BW35	0.69	+ or - 0.02
27-Apr-16	161970	BW35	0.69	+ or - 0.02
4-May-16	162135	BW35	0.68	+ or - 0.02
11-May-16	162238	BW35	0.70	+ or - 0.02
18-May-16	162342	BW35	0.68	+ or - 0.02
25-May-16	162450	BW35	0.68	+ or - 0.02

1-Jun-16	162540	BW35	0.59	+ or - 0.02
8-Jun-16	162648	BW35	0.66	+ or - 0.02
15-Jun-16	162759	BW35	0.65	+ or - 0.02
22-Jun-16	162862	BW35	0.66	+ or - 0.02
29-Jun-16	162964	BW35	0.63	+ or - 0.02
6-Jul-16	163070	BW35	0.64	+ or - 0.02
13-Jul-16	163156	BW35	0.63	+ or - 0.02
20-Jul-16	163241	BW35	0.62	+ or - 0.02
27-Jul-16	163494	BW35	0.61	+ or - 0.02
3-Aug-16	163473	BW35	0.65	+ or - 0.02
10-Aug-16	163567	BW35	0.63	+ or - 0.02
17-Aug-16	163638	BW35	0.64	+ or - 0.02
24-Aug-16	163741	BW35	0.65	+ or - 0.02
31-Aug-16	163835	BW35	0.66	+ or - 0.02
7-Sep-16	163920	BW35	0.67	+ or - 0.02
14-Sep-16	164025	BW35	0.68	+ or - 0.02
21-Sep-16	164146	BW35	0.66	+ or - 0.02
28-Sep-16	164245	BW35	0.68	+ or - 0.02
5-Oct-16	164341	BW35	0.68	+ or - 0.02
12-Oct-16	164452	BW35	0.66	+ or - 0.02
19-Oct-16	164534	BW35	0.68	+ or - 0.02
26-Oct-16	164662	BW35	0.67	+ or - 0.02
2-Nov-16	164791	BW35	0.66	+ or - 0.02
9-Nov-16	164894	BW35	0.66	+ or - 0.02
16-Nov-16	165023	BW35	0.63	+ or - 0.02
23-Nov-16	165106	BW35	0.66	+ or - 0.02
30-Nov-16	165220	BW35	0.68	+ or - 0.02
7-Dec-16	165349	BW35	0.68	+ or - 0.02
14-Dec-16	165458	BW35	0.67	+ or - 0.02
21-Dec-16	165621	BW35	0.67	+ or - 0.02
28-Dec-16	165790	BW35	0.69	+ or - 0.02
4-Jan-17	170039	BW35	0.67	+ or - 0.02
11-Jan-17	170175	BW35	0.70	+ or - 0.02
18-Jan-17	170298	BW35	0.69	+ or - 0.02
25-Jan-17	170409	BW35	0.68	+ or - 0.02
1-Feb-17	170553	BW35	0.67	+ or - 0.02
8-Feb-17	170689	BW35	0.66	+ or - 0.02
15-Feb-17	170841	BW35	0.65	+ or - 0.02
22-Feb-17	170979	BW35	0.65	+ or - 0.02
1-Mar-17	171110	BW35	0.68	+ or - 0.02
8-Mar-17	171267	BW35	0.67	+ or - 0.02
15-Mar-17	171398	BW35	0.65	+ or - 0.02
22-Mar-17	171546	BW35	0.67	+ or - 0.02
29-Mar-17	171685	BW35	0.65	+ or - 0.02
5-Apr-17	171818	BW35	0.65	+ or - 0.02
12-Apr-17	171943	BW35	0.66	+ or - 0.02
19-Apr-17	172025	BW35	0.65	+ or - 0.02
26-Apr-17	172193	BW35	0.67	+ or - 0.02
3-May-17	172259	BW35	0.66	+ or - 0.02
10-May-17	172381	BW35	0.66	+ or - 0.02

17-May-17	172509	BW35	0.66	+ or - 0.02
24-May-17	172639	BW35	0.65	+ or - 0.02
31-May-17	172730	BW35	0.62	+ or - 0.02
7-Jun-17	172852	BW35	0.63	+ or - 0.02
14-Jun-17	172953	BW35	0.64	+ or - 0.02
21-Jun-17	173051	BW35	0.64	+ or - 0.02
28-Jun-17	173189	BW35	0.64	+ or - 0.02
5-Jul-17	173309	BW35	0.66	+ or - 0.02
12-Jul-17	173398	BW35	0.65	+ or - 0.02
19-Jul-17	173485	BW35	0.62	+ or - 0.02
26-Jul-17	173600	BW35	0.64	+ or - 0.02
2-Aug-17	173719	BW35	0.63	+ or - 0.02
9-Aug-17	173787	BW35	0.68	+ or - 0.02
16-Aug-17	173876	BW35	0.66	+ or - 0.02
23-Aug-17	173999	BW35	0.67	+ or - 0.02
30-Aug-17	174109	BW35	0.69	+ or - 0.02
6-Sep-17	174214	BW35	0.70	+ or - 0.02
13-Sep-17	174307	BW35	0.69	+ or - 0.02
20-Sep-17	174409	BW35	0.69	+ or - 0.02
27-Sep-17	174522	BW35	0.70	+ or - 0.02
4-Oct-17	174645	BW35	0.67	+ or - 0.02
11-Oct-17	174745	BW35	0.70	+ or - 0.02
18-Oct-17	174841	BW35	0.65	+ or - 0.02
25-Oct-17	174948	BW35	0.68	+ or - 0.02
1-Nov-17	175058	BW35	0.23	+ or - 0.02
8-Nov-17	175162	BW35	0.65	+ or - 0.02
15-Nov-17	175281	BW35	0.69	+ or - 0.02
22-Nov-17	175384	BW35	0.56	+ or - 0.02
29-Nov-17	175480	BW35	0.73	+ or - 0.02
6-Dec-17	175605	BW35	0.72	+ or - 0.02
13-Dec-17	175753	BW35	0.71	+ or - 0.02
20-Dec-17	175936	BW35	0.72	+ or - 0.02
27-Dec-17	176127	BW35	0.69	+ or - 0.02
3-Jan-18	180044	BW35	0.70	+ or - 0.02
10-Jan-18	180162	BW35	0.69	+ or - 0.02
17-Jan-18	180256	BW35	0.69	+ or - 0.02
24-Jan-18	180416	BW35	0.68	+ or - 0.02
31-Jan-18	180567	BW35	0.71	+ or - 0.02
7-Feb-18	180727	BW35	0.68	+ or - 0.02
14-Feb-18	180839	BW35	0.64	+ or - 0.02
21-Feb-18	180978	BW35	0.63	+ or - 0.02
28-Feb-18	181118	BW35	0.62	+ or - 0.02
7-Mar-18	181251	BW35	0.62	+ or - 0.02
14-Mar-18	181406	BW35	0.16	+ or - 0.02
21-Mar-18	181549	BW35	0.09	+ or - 0.02
28-Mar-18	181701	BW35	0.08	+ or - 0.02
4-Apr-18	181774	BW35	0.50	+ or - 0.02
11-Apr-18	181885	BW35	0.65	+ or - 0.02
18-Apr-18	181999	BW35	0.66	+ or - 0.02

25-Apr-18	182115	BW35	0.69	+ or - 0.02
2-May-18	182214	BW35	0.65	+ or - 0.02
9-May-18	182349	BW35	0.68	+ or - 0.02
16-May-01	182430	BW35	0.69	+ or - 0.02
23-May-18	182567	BW35	0.68	+ or - 0.02
30-May-18	182661	BW35	0.68	+ or - 0.02
6-Jun-18	182749	BW35	0.74	+ or - 0.02
13-Jun-18	182834	BW35	0.73	+ or - 0.02
20-Jun-18	182932	BW35	0.70	+ or - 0.02
27-Jun-18	183130	BW35	0.72	+ or - 0.02
4-Jul-18	183189	BW35	0.73	+ or - 0.02
11-Jul-18	183302	BW35	0.68	+ or - 0.02
18-Jul-18	183387	BW35	0.73	+ or - 0.02
25-Jul-18	183499	BW35	0.71	+ or - 0.02
1-Aug-18	183587	BW35	0.73	+ or - 0.02
8-Aug-18	183701	BW35	0.75	+ or - 0.02
15-Aug-18	183791	BW35	0.77	+ or - 0.02
22-Aug-18	183893	BW35	0.76	+ or - 0.02
29-Aug-18	184043	BW35	0.74	+ or - 0.02
5-Sep-18	184126	BW35	0.73	+ or - 0.02
12-Sep-18	184224	BW35	0.73	+ or - 0.02
19-Sep-18	184337	BW35	0.74	+ or - 0.02
26-Sep-18	184421	BW35	0.76	+ or - 0.02
3-Oct-18	184556	BW35	0.74	+ or - 0.02
10-Oct-18	184643	BW35	0.73	+ or - 0.02
17-Oct-18	184740	BW35	0.72	+ or - 0.02
24-Oct-18	184829	BW35	0.73	+ or - 0.02
31-Oct-18	184951	BW35	0.71	+ or - 0.02
7-Nov-18	185047	BW35	0.72	+ or - 0.02
14-Nov-18	185149	BW35	0.70	+ or - 0.02
21-Nov-18	185262	BW35	0.50	+ or - 0.02
28-Nov-18	185364	BW35	0.11	+ or - 0.02
5-Dec-18	185505	BW35	0.72	+ or - 0.02
12-Dec-18	185752	BW35	0.30	+ or - 0.02
19-Dec-18	175821	BW35	0.78	+ or - 0.02
26-Dec-18	185918	BW35	0.79	+ or - 0.02
2-Jan-19	190013	BW35	0.46	+ or - 0.02
9-Jan-19	190119	BW35	0.29	+ or - 0.02
16-Jan-19	190240	BW35	0.48	+ or - 0.02
23-Jan-19	190335	BW35	0.69	+ or - 0.02
30-Jan-19	190468	BW35	0.72	+ or - 0.02
6-Feb-19	190013	BW35	0.61	+ or - 0.02
13-Feb-19	190119	BW35	0.55	+ or - 0.02
20-Feb-19	190240	BW35	0.62	+ or - 0.02
27-Feb-19	190335	BW35	0.12	+ or - 0.02
6-Mar-19	191036	BW35	0.12	+ or - 0.02
13-Mar-19	191156	BW35	0.09	+ or - 0.02
20-Mar-19	191305	BW35	0.09	+ or - 0.02
27-Mar-19	191409	BW35	0.09	+ or - 0.02

3-Apr-19	191525	BW35	0.07	+ or - 0.02
10-Apr-19	191636	BW35	0.08	+ or - 0.02
17-Apr-19	191747	BW35	0.08	+ or - 0.02
24-Apr-19	181849	BW35	0.08	+ or - 0.02
1-May-19	191963	BW35	0.07	+ or - 0.02
8-May-19	192065	BW35	0.08	+ or - 0.02
15-May-19	192243	BW35	0.64	+ or - 0.02
22-May-19	192313	BW35	0.68	+ or - 0.02
29-May-19	192392	BW35	0.68	+ or - 0.02
5-Jun-19	192476	BW35	0.67	+ or - 0.02
12-Jun-19	192551	BW35	0.66	+ or - 0.02
19-Jun-19	192644	BW35	0.66	+ or - 0.02
26-Jun-19	192748	BW35	0.66	+ or - 0.02
3-Jul-19	192859	BW35	0.49	+ or - 0.02
10-Jul-19	192971	BW35	0.20	+ or - 0.02
17-Jul-19	193062	BW35	0.12	+ or - 0.02
24-Jul-19	193168	BW35	0.12	+ or - 0.02
31-Jul-19	193285	BW35	0.13	+ or - 0.02
7-Aug-19	193391	BW35	0.54	+ or - 0.02
14-Aug-19	193484	BW35	0.56	+ or - 0.02
21-Aug-19	193596	BW35	0.57	+ or - 0.02
28-Aug-19	193701	BW35	0.62	+ or - 0.02
4-Sep-19	193814	BW35	0.62	+ or - 0.02
11-Sep-19	193919	BW35	0.66	+ or - 0.02
18-Sep-19	193996	BW35	0.67	+ or - 0.02
25-Sep-19	194095	BW35	0.54	+ or - 0.02
2-Oct-19	194215	BW35	0.60	+ or - 0.02
9-Oct-19	194717	BW35	0.50	+ or - 0.02
16-Oct-19	194394	BW35	0.56	+ or - 0.02
23-Oct-19	194494	BW35	0.58	+ or - 0.02
30-Oct-19	194580	BW35	0.63	+ or - 0.02
6-Nov-19	194721	BW35	0.45	+ or - 0.02
13-Nov-19	194811	BW35	0.23	+ or - 0.02
20-Nov-19	194938	BW35	0.20	+ or - 0.02
27-Nov-19	195083	BW35	0.24	+ or - 0.02
4-Dec-19	195197	BW35	0.24	+ or - 0.02
11-Dec-19	195345	BW35	0.21	+ or - 0.02
18-Dec-19	195484	BW35	0.34	+ or - 0.02
25-Dec-19	195614	BW35	0.35	+ or - 0.02
1-Jan-20	200009	BW35	0.14	+ or - 0.02
8-Jan-20	200098	BW35	0.09	+ or - 0.02
15-Jan-20	200203	BW35	0.08	+ or - 0.02
22-Jan-20	200298	BW35	0.09	+ or - 0.02
27-Jan-20	200444	BW35	0.09	+ or - 0.02
5-Feb-20	200551	BW35	0.10	+ or - 0.02
12-Feb-20	200668	BW35	0.09	+ or - 0.02
19-Feb-20	200842	BW35	0.09	+ or - 0.02
26-Feb-20	200943	BW35	0.09	+ or - 0.02
4-Mar-20	201060	BW35	0.09	+ or - 0.02
11-Mar-20	201180	BW35	0.08	+ or - 0.02

18-Mar-20	201282	BW35	0.08	+ or - 0.02
25-Mar-20	201383	BW35	0.07	+ or - 0.02
1-Apr-20	201456	BW35	0.07	+ or - 0.02
8-Apr-20	201647	BW35	0.08	+ or - 0.02
15-Apr-20	201622	BW35	0.08	+ or - 0.02
22-Apr-20	201697	BW35	0.08	+ or - 0.02
29-Apr-20	201780	BW35	0.08	+ or - 0.02
6-May-20	201902	BW35	0.05	+ or - 0.02
13-May-20	201962	BW35	0.06	+ or - 0.02
21-May-20	202071	BW35	0.07	+ or - 0.02
29-May-20	202211	BW35	0.06	+ or - 0.02
3-Jun-20	202258	BW35	0.07	+ or - 0.02
10-Jun-20	202355	BW35	0.06	+ or - 0.02
17-Jun-20	202459	BW35	0.07	+ or - 0.02
24-Jun-20	202580	BW35	0.06	+ or - 0.02
1-Jul-20	202684	BW35	0.06	+ or - 0.02
8-Jul-20	202771	BW35	0.06	+ or - 0.02
15-Jul-20	202865	BW35	0.05	+ or - 0.02
22-Jul-20	202973	BW35	0.06	+ or - 0.02
29-Jul-20	203081	BW35	0.06	+ or - 0.02
5-Aug-20	203169	BW35	0.08	+ or - 0.02
12-Aug-20	203243	BW35	0.08	+ or - 0.02
20-Aug-20	203360	BW35	0.08	+ or - 0.02
26-Aug-20	203465	BW35	0.06	+ or - 0.02
2-Sep-20	203567	BW35	0.07	+ or - 0.02
9-Sep-20	203674	BW35	0.05	+ or - 0.02
16-Sep-20	203754	BW35	0.07	+ or - 0.02
23-Sep-20	203872	BW35	0.06	+ or - 0.02
30-Sep-20	203996	BW35	0.05	+ or - 0.02
7-Oct-20	204077	BW35	0.49	+ or - 0.02
14-Oct-20	204155	BW35	0.51	+ or - 0.02
21-Oct-20	204249	BW35	0.54	+ or - 0.02
28-Oct-20	204332	BW35	0.53	+ or - 0.02
4-Nov-20	204444	BW35	0.65	+ or - 0.02
11-Nov-20	204552	BW35	0.62	+ or - 0.02
18-Nov-20	204662	BW35	0.62	+ or - 0.02
25-Nov-20	204762	BW35	0.63	+ or - 0.02
3-Dec-20	204926	BW35	0.61	+ or - 0.02
9-Dec-20	205030	BW35	0.61	+ or - 0.02
16-Dec-20	205194	BW35	0.62	+ or - 0.02
23-Dec-20	205329	BW35	0.63	+ or - 0.02
30-Dec-20	205419	BW35	0.61	+ or - 0.02
7-Jan-21	210098	BW35	0.56	+ or - 0.02
13-Jan-21	210169	BW35	0.57	+ or - 0.02
20-Jan-21	210302	BW35	0.55	+ or - 0.02
27-Jan-21	210420	BW35	0.55	+ or - 0.02
3-Feb-21	210551	BW35	0.58	+ or - 0.02
10-Feb-21	210651	BW35	0.56	+ or - 0.02
17-Feb-21	510758	BW35	0.57	+ or - 0.02

24-Feb-21	210873	BW35	0.58	+ or - 0.02
3-Mar-21	211013	BW35	0.63	+ or - 0.02
10-Mar-21	211122	BW35	0.63	+ or - 0.02
17-Mar-21	211225	BW35	0.63	+ or - 0.02
24-Mar-21	211338	BW35	0.64	+ or - 0.02
31-Mar-21	211466	BW35	0.64	+ or - 0.02
7-Apr-21	211558	BW35	0.67	+ or - 0.02
14-Apr-21	211642	BW35	0.66	+ or - 0.02
21-Apr-21	211752	BW35	0.65	+ or - 0.02
28-Apr-21	211848	BW35	0.66	+ or - 0.02
5-May-21	211964	BW35-4cb	0.66	+ or - 0.02
12-May-21	212056	BW35-5cb	0.64	+ or - 0.02
19-May-21	212158	BW35-6cb	0.62	+ or - 0.02
26-May-21	212274	BW35-7cb	0.64	+ or - 0.02