

2018 Ketchikan BEACH Monitoring

Analytical Data Results

Sample Date	Knudson Cove		Beacon Hill		S Pt Higgins		Shull		Sunset		S Refuge Cove		Thomas Basin		Seaport		Rotary		Mountain Point		Herring Cove	
	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc	FC	Enteroc
17-May	28 (26)	2595 (2603)	3	183	5	31	3	30	3	20	5	74	1	10	<1	<1	<1 [pool]	20 [pool]	8 [cultural food]	10 [cultural food]	2	31
22-May	144	341	26	30	84	61	132	20	48	63	64	95	81	51	51	10	39 (17) [pool]	30 (20) [pool]	46 [cultural food]	106 [cultural food]	94	30
31-May	26	20	66	<10	48 (56)	60 (70)	27	<10	51	<10	49	<10	12	41	33	<10	23 [pool]	10 [pool]	21 [cultural food]	20 [cultural food]	9	<10
6-Jun	15	<10	15	<10	31	<10	22 (29)	41 (30)	11	<10	18	41	139	173	13	30	36 [pool]	30 [pool]	103 [cultural food]	121 [cultural food]	123	109
14-Jun	11	<10	46	<10	65	410	118	144	31	31	33	10	19	20	16	10	169 [pool]	145 [pool]	9 [cultural food]	<10 [cultural food]	32 (28)	10 (<10)
20-Jun	6	<10	5	<10	8	<10	6	<10	4	10	6	<10	9	<10	3	20	13 [beach]	10 [beach]	15 (11) [surprise beach]	<10 (<10) [surprise beach]	67	<10
27-Jun	17	<10	13	71	22	<10	15	20	12	<10	10	20	19	10	8 (8)	<10 (<10)	26 [beach]	10 [beach]	23 [surprise beach]	<10 [surprise beach]	13	<10
2-Jul	9	74	10	<10	11	<10	26	<10	21 (17)	<10 (<10)	15	<10	41	<10	3	<10	8 [beach]	<10 [beach]	9 [surprise beach]	<10 [surprise beach]	18	10
12-Jul	18	20	9	41	136	350	14	<10	28	<10	22 (26)	<10 (10)	37	30	5	10	8 [beach]	<10 [beach]	3 [surprise beach]	<10 [surprise beach]	33	41
18-Jul	2	20	3	<10	2	<10	5	20	5	<10	7	<10	19	52	3	>10	4 [beach]	10 [beach]	2 [surprise beach]	<10 [surprise beach]	32 (31)	20 (30)
26-Jul	32	20	50	52	236	134	4	<10	67	61	22 (19)	20 (31)	23	52	6	<10	13 [beach]	<10 [beach]	9 [surprise beach]	<10 [surprise beach]	45	<10
1-Aug	6	20	10	<10	33	30	12 (9)	<10 (<10)	8	10	1	20	21 (24)	63 (52)	5	<10	5 [beach]	10 [beach]	5 [surprise beach]	51 [surprise beach]	18	20
9-Aug	8	10	30	10	168	241	119	727	93	187	53	97	CONF	2755	26	52	131 [pool]	336 [pool]	43 [cultural food]	51 [cultural food]	210	201
16-Aug	3 (2)	<10 (10)	7	10	5	<10	16	181	13	<10	3	<10	14	74	5	<10	9 [pool]	10 [pool]	4 [cultural food]	10 [cultural food]	81	31
23-Aug	94	86	6	10	19	31	13	10	81	41	16	10	59	496	<10	<10	24 [pool]	31 [pool]	<10 (<10) [cultural food]	<10 (<10) [cultural food]	246	156
30-Aug	3	<10	2	10	3	10	25	<10	8	10	88	<10	49	350	4	10	4 (6) [pool]	10 (<10) [pool]	4 [cultural food]	40 [cultural food]	56	20
5-Sep	42 (37)	173 (131)	10	<10	3	<10	49	10	23	10	55	<10	72	528	5	10	3 [pool]	<10 [pool]	118 [cultural food]	414 [cultural food]	318	457
12-Sep	3	<10	26	10	28	279	33	20	50	<10	25	41	26	130	63	<10	25 [pool]	309 [pool]	98 (90) [cultural food]	183 (181) [cultural food]	213	414

18 AAC 70 Alaska Water Quality Standards (amended as of April 6, 2018) - (14) Bacteria, For Marine Water Uses

(B) Water Recreation (i) contact recreation	In a 30-day period, the geometric mean of samples may not exceed 35 enterococci CFU/100 ml, and not more than 10% of the samples may exceed a STV of 130 enterococci CFU/100 ml.
(B) Water Recreation (ii) secondary recreation	In a 30-day period, the geometric mean of samples may not exceed 200 fecal coliform/100 ml, and not more than 10% of the samples may exceed 400 fecal coliform/100 ml.
(D) Harvesting for Consumption of Raw Mollusks or Other Raw	The geometric mean of samples may not exceed 14 fecal coliform/100 ml; and not more than 10% of the samples may exceed; 31 CFU per 100 ml for a membrane filtration test.

Tides focus is on either side of low tide, using ebb and flow stages

FC = fecal coliform bacteria

Enteroc = enterococci

() shows duplicate results

[] shows alternating monitoring locations; Rotary - Pool or Beach, and Mountain Point - SurpriseBeach or Cultural Foods locations.

CFU - colony forming units

MPN - most probable number

STV - statistical threshold value

CONF - Confluent Growth