North Chuckanut Bay Drainage Area

Water Quality Status: Fecal Coliform Bacteria

December 2017

Background: Clean water is a valuable resource; it is essential for human health and for the health of fish, shellfish, wildlife, and livestock. To protect water quality, WA state has criteria for bacteria levels in both fresh and marine waters.



- 1) Animal waste from livestock, domestic pets, and wildlife
- 2) Human sewage from failing septic systems, leaking sewer lines or cross-connections between sewer and stormwater systems

Routine Monitoring: Whatcom County Public Works (WCPW) has monitored fecal coliform bacterial in the North Chuckanut Bay drainage area since February 2015.



North Chuckanut Bay Drainage Area Comparison of Bacteria Levels to Health Standards

Refer to the map on page 1 for site locations.





North Chuckanut Bay Drainage Area 13-Month Historical Fecal Coliform Bacteria Data

This table provides the individual results at each station for the past thirteen months. For the *freshwater samples,* results in light orange exceed 100 FC/100mL, results in dark orange exceed 1000 FC/100mL. For the *marine samples,* results in light orange exceed 14 FC/100mL, results in dark orange exceed 100 FC/100mL.

	Rainfal	Stations	Freshwater Samples							Marine Samples				
Date	24-Hr	72-Hr	CB1	CB2a	CB3	CB4	CB5	CB6	CB7	CM1	CM2	CM3	CM4	CM5
12/27/16	0.13	0.04	10	38	28	32	54	220	NS	NS	NS	NS	NS	NS
1/31/17	0	0.02	2	9	12	17	2	22	NS	NS	NS	NS	NS	NS
2/27/17	0.09	0.50	22	5	9	15	2	92	160	11	13	4.5	23	17
3/14/17	0.49	0.55	17	14	28	38	15	151	100	2	2	4.5	7.8	NS
3/29/17	0.53	0.39	86	27	48	45	71	370	NS	NS	NS	NS	NS	NS
4/17/17	NR	0.60	22	9	14	4	10	12	108	7.8	23	7.8	13	11
4/24/17	trace	trace	7	10	17	10	10	14	ND	2	NS	70	4	1.7
5/9/17	0	trace	33	10	17	17	17	33	NS	NS	NS	NS	NS	NS
5/23/17	0	0	38	14	15	12	68	80	NS	NS	NS	NS	NS	NS
6/15/17	0.2	0.01	30	100	106	60	135	LF	SC	SC	SC	SC	SC	SC
6/29/17	0	0	20	60	62	56	108	ST	2	33	540	33	14	7.8
7/17/17	0	0	D	19	52	35	D	NS	10200	5	240	8	2	2
7/31/17	0	0	D	18	5	2	D	D	737	8	79	2	2	2
8/10/17	0	0	D	30	88	20	D	D	40	17	1,600	33	2	22
8/23/17	0	0	D	35	92	17	D	D	112	13	110	8	7	7
9/12/17	0	0.23	D	14	7	12	D	D	27	5	33	2	2	8
9/27/17	0	0.03	D	2	2	10	D	D	17	2	2	2	2	5
10/11/17	0.14	0.05	D	ND	4	2	D	5	33	2	2	2	2	2
10/25/17	0.17	0.05	4	19	4	7	D	19	333	1.7	33	1.7	11	1.7
11/8/17	0	0	4	4	10	15	23	96	2	5	33	11	2	4
11/29/17	trace	0.49	2	4	5	12	14	14	7	33	14	27	33	13
12/11/17	0.00	0.00	2	2	2	4	2	2	2	2	13	2	2	2

D- Dry, ST- Stagnant, LF- Low Flow, IS- Improper Sampling, NS -Not Sampled, S-No Staff, ND- Non-Detect, SC-Small Craft Advisory

Gray box indicated an event where no sample was collected for varying reasons.

Rainfall measured in inches.