

CLALLAM COUNTY WATER RESOURCES DATABASE

Summary of Fecal Coliform Sampling Data From: 1/1/05 To: 3/12/09 -- All projects

Watershed: All Watersheds

Summary statistics and "nominal" WA Dept. of Ecology (DOE) water-quality category are shown for all sites with samples during the selected time period. *WQ category is "nominal" because DOE ultimately determines the proper "reporting period" for a given data set; other exceptions are noted below.*

(To calculate geometric means, values of 0 and <2 are both treated as 1. Only data passing all QC tests are included in this report.)

For detailed fecal data or other stream-related data, contact Streamkeepers of Clallam County at 360-417-2281 or streamkeepers@co.clallam.wa.us

BACKGROUND: Fecal coliform bacteria indicate the likely presence of pollutants harmful to fish, wildlife, and humans.

State water-quality violation thresholds for fecal coliform (WAC 173-201A-030) are set according to water-body classification as follows:

Class AA freshwater: geometric mean is > 50 colonies per 100 mL or more than 10% of samples greater than 100

Class A freshwater: geometric mean is > 100 colonies per 100 mL or more than 10% of samples greater than 200

The state geometric-mean standard requires ≥ 5 samples per year, and Streamkeepers samples quarterly, so the state geometric-mean standard does not apply to Streamkeepers data. However, Streamkeepers has found the %-above standard to be consistently more sensitive than the geometric-mean standard, so the latter becomes irrelevant. Therefore, in the table below, "nominal" state WQ category is determined using the %-above standard only:

- **Category 5, "Impaired" [303(d) list]:** Exceedances must be ≥ 2 in number, representing >10% of the total samples in the reporting period.

NOTE: Category 5 sites must eventually have an EPA-approved Total Maximum Daily Load ("TMDL") cleanup plan, and are then placed in Category 4.

- **Category 2, "Of Concern":** One exceedance representing >10% of the total samples in the reporting period (no minimum number of samples).

- **Category 1, "Meets Listed Standards":** Must be ≥ 10 samples in the reporting period with <10% exceedances.

NOTE: To meet state Category 1 criteria, a site cannot have an Impaired listing for any other parameter. We do not consider other parameters in this report.

- **NA (Category 3):** Data available are insufficient to meet any of the above categories.

Site Name	Watershed	Description	Sampling dates within time period:		# of samples	Fecal coliform colonies per 100mL -- geometric mean	Samples with counts above:				Nominal State WQ Category	Rep-QC checks done?
			First:	Last:			100 (Class AA)		200 (Class A)			
						#	%	#	%			
<u>Bagley</u>												
Bagley 0.0		Bagley ~200' u/s of mouth	5/23/2006	10/14/2008	11	12	0	0			1	No
Bagley 0.7		Bagley d/s of Discovery Trail bridge	2/2/2005	1/29/2009	17	19	1	5.9			1	No
Bagley 1.4		Bagley u/s of HWY 101 and James Page Rd	5/15/2007	1/29/2009	8	18	0	0			NA	No
<u>Bell</u>												
Bell 0.1		Bell ~320 ft. d/s of Schmuck Rd	2/2/2005	1/29/2009	9	16	1	11.1			2	No
<u>Bogachiel</u>												
Bogachiel 15.0		Bogachiel @ Bogachiel State Park d/s of 101 Bridge	1/24/2008	8/4/2008	3	6	0	0			NA	No
Bogachiel 15.0a		Bogachiel SC d/s Bogachiel State Park in side channel	4/21/2008	9/2/2008	4	3	0	0			NA	No
Bogachiel 15.2		Bogachiel St. Pk U/S (CCWF), d/s of HWY 101	10/18/2007	1/26/2009	8	8	0	0			NA	No

Site Name	Watershed Description	Sampling dates within time period:		# of sam- ples	Fecal coliform colonies per 100mL -- geo- metric mean	Samples with counts above:				Nominal State WQ Category	Rep- QC checks done?
		First:	Last:			100 (Class AA)		200 (Class A)			
						#	%	#	%		
Mill 2.1	Mill Creek d/s of Russell Rd	10/18/2007	1/26/2009	9	42	4	44.4			5	No
Mill 3.0	Mill d/s of Hwy 101 & Trailer Park	1/24/2008	1/26/2009	8	17	0	0			NA	No
Mill 3.6	Mill @ Sportsman's Club Rd, ~60' past gate	10/18/2007	1/26/2009	9	12	1	11.1			2	No
<u>Calawah</u>											
Calawah SF 2.2	Calawah SF d/s of Klahanie Campground below campsite #1	10/18/2007	9/2/2008	7	7	0	0			NA	No
Calawah SF 2.4	Calawah SF u/s of Klahanie Campground E of Campsite #17	10/18/2007	9/2/2008	7	4	0	0			NA	No
Elk 0.2	Elk Corner Rd. to end, then cut NW to creek	11/8/2005	1/26/2009	9	12	2	22.2			5	No
Elk 0.2a	Elk Corner Rd. just u/s of elk trail	8/4/2008	1/26/2009	3	19	1	33.3			2	No
Elk 0.8	Elk @Calawah Way bridge	4/6/2005	1/26/2009	13	13	2	15.4			5	No
Elk 1.1	Elk (Calawah) @ 1900 Calawah Way	5/15/2007	1/26/2009	8	10	0	0			NA	No
<u>Cassalery</u>											
Cassalery 0.6	Cassalery @ Jamestown Rd.	2/2/2005	10/14/2008	16	93	7	43.8			5	No
Cassalery 1.6	Cassalery @ Clary Lane	5/15/2007	10/14/2008	7	78	4	57.1			5	No
<u>Dry</u>											
Dry 0.0a	Dry Cr input - Transfer station outfall nr mouth	1/26/2009	1/26/2009	1	1	0	0			NA	No
Dry 0.1	Dry Cr @ d/s end of Transfer Station	2/1/2006	1/26/2009	4	3	0	0			NA	No
Dry 0.8	Dry Cr d/s of fork at Kacee Way, u/s of falls	8/18/2005	1/26/2009	14	17	1	7.1			1	No
Dry 2.2	Dry Cr @ 2844 W. Edgewood Dr.	10/30/2007	1/26/2009	6	19	0	0			NA	No
Dry WF 1.2	Dry W Fork @2830 W. Edgewood Dr	1/26/2009	1/26/2009	1	10	0	0			NA	No
<u>Ennis</u>											
Ennis 0.1	Ennis @ PA treatment plant	2/2/2005	1/26/2009	16	19			1	6.2	1	No
Ennis 0.4	Ennis just u/s of White Cr. Mouth	10/22/2007	1/26/2009	6	9			0	0	NA	No
Ennis 1.0	Ennis ~150' u/s of Hwy 101 culvert	2/2/2005	1/26/2009	16	4			1	6.2	1	No

Site Name	Watershed Description	Sampling dates within time period:		# of sam- ples	Fecal coliform colonies per 100mL -- geo- metric mean	Samples with counts above:				Nominal State WQ Category	Rep- QC checks done?
		First:	Last:			100 (Class AA)		200 (Class A)			
						#	%	#	%		
Ennis 1.7	Ennis ~400ft d/s of power line clearing	8/23/2007	1/26/2009	7	3			0	0	NA	No
Ennis 1.7a	Ennis nr 1.7, d/s of LB trib (runoff ditch)	1/28/2008	1/28/2008	1	2			0	0	NA	No
White 0.0	White (Ennis) near mouth	4/5/2005	1/26/2009	16	45			2	12.5	5	No
White 0.3	White (Ennis) u/s of 101	2/2/2005	1/26/2009	16	15			0	0	1	No
White 0.8	White (Ennis) @ college trail	2/2/2005	1/26/2009	14	6			0	0	1	No
<u>Indian</u>											
Indian 0.1	Indian d/s of LK Aldwell Trailer Park @ turn out	1/26/2009	1/26/2009	1	1			0	0	NA	No
Indian 0.3	Indian 23' u/s of depth gauge @ Lk Aldwell Rd bridge	10/31/2005	1/26/2009	13	5			0	0	1	No
Indian 5.0	Indian Crk @ DOE gage site @101 bridge nr South Shore Rd	2/1/2006	1/26/2009	13	2			0	0	1	No
<u>Jimmycomelately</u>											
Jimmycomelately 0.2a	JCL u/s of Hwy 101 - restored channel	2/2/2005	2/2/2005	1	3			0	0	NA	No
<u>Johnson</u>											
Johnson 0.0	Johnson u/s of Marina	2/2/2005	1/29/2009	9	20			1	11.1	2	No
<u>Lees</u>											
Lees 0.1	Lees d/s of E. Hidden Way	2/2/2005	1/29/2009	18	25			1	5.6	1	No
Lees 0.6	Lees d/s of Hwy 101	10/22/2007	10/14/2008	5	59			1	20	2	No
Lees 0.8	Lees d/s of Leighland Av	10/22/2007	1/29/2009	8	100			2	25	5	No
Lees 1.0	Lees u/s of convergence with EF behind Lees Creek Mobil Hr Pk	7/7/2008	7/7/2008	1	122			0	0	NA	No
Lees 1.1	Lees d/s of Marden Rd, d/s of out fall pool	7/7/2008	1/29/2009	3	50			0	0	NA	No
Lees 1.1a	Lees d/s of Marden Rd, sampled from culvert outfall	7/7/2008	10/14/2008	2	31			0	0	NA	No
Lees 3.3	Lees d/s of Monroe Rd culvert	7/7/2008	1/29/2009	4	32			1	25	2	No
Lees EF 0.1	Lees EF d/s of Marden Rd	7/7/2008	7/7/2008	1	172			0	0	NA	No
Lees EF 0.4	Lees EF u/s of Pearce Rd culvert	7/7/2008	1/29/2009	4	70			1	25	2	No

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						#	%	#	%		
Lees EF 1.2	Lees E Fork u/s of Garling Rd	5/27/2008	10/14/2008	3	47			1	33.3	2	No
Lees EF 2.4	Lees EF @ 697 Draper Rd (Johannes' property) u/s of driveway bridge	10/14/2008	10/14/2008	1	20			0	0	NA	No
Lees EF 2.6	Lees EF u/s of 506 Draper Rd	10/14/2008	1/29/2009	2	597			1	50	2	No
<u>McDonald</u>											
McDonald 03.1	McDonald u/s of Hwy 101	8/4/2008	1/29/2009	3	6	0	0			NA	No
<u>Morse</u>											
Morse 0.3	Morse @ 4 Seasons Ranch	2/2/2005	1/29/2009	17	5	0	0			1	No
Morse 1.1a	Morse input @Wal-Mart hill storm drainage	2/2/2005	1/29/2009	14	5	1	7.1			1	No
<u>PA Harbor</u>											
PA Harbor @ Peabody	PA Harbor @ Peabody mouth	10/23/2006	1/26/2009	5	48			0	0	NA	No
PA Harbor @ Valley	PA Harbor @ Valley mouth	10/23/2006	10/23/2006	1	80			0	0	NA	No
<u>Peabody</u>											
Peabody 0.0	Peabody @ mouth	2/2/2005	4/22/2008	9	46			2	22.2	5	No
Peabody 0.2	Peabody @ 2nd St, above final culvert	2/2/2005	1/26/2009	17	64			3	17.6	5	No
Peabody 0.2a	Peabody input - storm pipe d/s of RV park office	2/2/2005	1/26/2009	17	98			6	35.3	5	No
Peabody 0.2b	Peabody u/s of drain pipe @ RV Park office	4/5/2005	9/11/2006	3	72			1	33.3	2	No
Peabody 0.3	Peabody d/s of trailer park laundry	2/2/2005	1/26/2009	15	55			3	20	5	No
Peabody 0.4	Peabody @u/s end of Peabody St culvert	10/31/2005	1/26/2009	14	35			2	14.3	5	No
Peabody 0.4a	Peabody input - storm pipe inside culvert @ Peabody St.	4/5/2005	1/26/2009	15	46			3	20	5	No
Peabody 0.5	Peabody u/s of Peabody St	4/5/2005	4/5/2005	1	10			0	0	NA	No
Peabody 0.9	Peabody u/s of 8 St.	2/2/2005	2/1/2006	5	35			0	0	NA	No
Peabody 1.2a	Peabody input - storm pipe u/s of Lauridsen Blvd	4/5/2005	1/26/2009	14	44			2	14.3	5	No
Peabody 1.4	Peabody @ ONP Visitor Ctr	2/2/2005	1/26/2009	17	3			0	0	1	No

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						#	%	#	%		
Peabody 2.9	Peabody 10' u/s of Coyote Run Ln	4/5/2005	1/26/2009	16	2			0	0	1	No
Peabody 3.0	Peabody 20' u/s of WDFW #0246	4/5/2005	1/26/2009	14	2			0	0	1	No
<u>Siebert</u>											
Siebert 0.6	Siebert @ 225 Gehrke Rd	2/2/2005	1/29/2009	17	11	1	5.9			1	No
<u>Sol Duc</u>											
Bear (Sol Duc) 0.1	Bear u/s of Hwy 101	4/6/2005	1/26/2009	12	7	0	0			1	No
Lake 0.0	Lake @ mouth	11/8/2005	11/8/2005	1	1	0	0			NA	No
Lake 0.5	Lake d/s of Hwy 101	4/6/2005	1/26/2009	9	8	0	0			NA	No
Lake 0.6	Lake ~300' u/s of Hwy 101	5/15/2007	10/18/2007	3	4	0	0			NA	No
Lake 1.6	Lake @ Bloedel Blvd	9/11/2006	1/26/2009	10	7	0	0			1	No
Sol Duc 32.3	Sol Duc @Tumbling Rapids Campground d/s of west-most campsite	10/18/2007	9/2/2008	7	3	0	0			NA	No
Sol Duc 32.4	Sol Duc @ Tumbling Rapids Campground u/s of east-most campsite	10/18/2007	9/2/2008	7	2	0	0			NA	No
Sol Duc 35.9	Sol Duc @ Bear Creek State Park along Justin Wolfe Trail	10/18/2007	9/2/2008	6	4	0	0			NA	No
Sol Duc 36.0	Sol Duc @ Bear Creek State Park end of east-most trail	10/18/2007	9/2/2008	6	5	0	0			NA	No
Sol Duc 45.2	Sol Duc @ Klahowya Campground d/s of SW-most campsite	5/27/2008	9/2/2008	4	4	0	0			NA	No
Sol Duc 45.5	Sol Duc @ Klahowya Campground u/s of NE-most campsite	5/27/2008	9/2/2008	4	2	0	0			NA	No
<u>Tumwater</u>											
Tumwater 0.0	Tumwater d/s of Marine Dr	10/22/2007	1/26/2009	7	21			0	0	NA	No
Tumwater 0.1	Tumwater u/s of Marine Dr, d/s of LB stormwater drain input	2/2/2005	1/26/2009	17	43			2	11.8	5	No
Tumwater 0.7	Tumwater betw. 10 & 11 St. d/s of inflow pipe 0.7a	8/18/2005	2/1/2006	3	2			0	0	NA	No
Tumwater 0.7a	Storm pipe into Tumwater nr 10 St. 250' d/s of 0.8	4/5/2005	1/26/2009	14	1			0	0	1	No
Tumwater 0.8	Tumwater nr. 11 St., d/s of storm outflow channel	2/2/2005	1/26/2009	16	25			0	0	1	No
Tumwater 0.8b	Tumwater input - outflow channel from storm pipe @ 11 St.	2/2/2005	10/23/2006	6	71			1	16.7	2	No

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						#	%	#	%		
Tumwater 0.8c	Tumwater input - pool below storm pipe @ 11 St.	5/25/2006	1/26/2009	11	54			2	18.2	5	No
Tumwater 0.8d	Tumwater input - storm pipe into Tumwater @ 11 St.	2/2/2005	1/26/2009	14	12			1	7.1	1	No
Tumwater 0.8e	Tumwater u/s of 11 St. storm outfall	2/2/2005	1/26/2009	16	26			0	0	1	No
Tumwater 1.4	Tumwater d/s of 101 culvert	8/23/2007	8/26/2008	5	24			0	0	NA	No
Tumwater 1.5	Tumwater creek u/s of HWY 101 culvert	4/22/2008	1/26/2009	5	18			0	0	NA	No
Tumwater 4.4	Tumwater u/s of 3142 Black Diamond Rd	4/5/2005	1/26/2009	16	4			0	0	1	No
<u>Valley</u>											
Valley 0.0	Valley @ estuary pedestrian bridge	2/2/2005	1/26/2009	15	60			5	33.3	5	No
Valley 0.4	Valley @ 6th St, u/s of final culvert 220ft	2/2/2005	1/26/2009	16	29			2	12.5	5	No
Valley 0.6	Valley @ 904 power pole	8/18/2005	8/18/2005	1	46			0	0	NA	No
Valley 1.0	Valley @ "flatbed" bridge @ 14th St	2/2/2005	1/26/2009	16	14			1	6.2	1	No
Valley 1.2	Valley d/s of Hwy 101	5/25/2006	1/22/2007	4	26			0	0	NA	No
Valley 1.4	Valley ~600' u/s of Hwy 101 where trail nears stream	5/15/2007	1/26/2009	8	7			0	0	NA	No