Appendix D – Water Quality Standard Results

Table 1. 7DADMax Temperatures in water year 2025. Cells bolded and shaded in green pass the state standard.

Watershed	Site	Waterbody	7DADMax (°C)
Samish Bay	**11**	**Upper Samish River**	**14.08**
	8	Swede Creek	19.07
	6	Friday Creek	22.40
	4	**Upper Thomas Creek**	**16.78**
	3	Lower Thomas Creek	21.69
	32	Lower Samish River	20.88
	39	Colony Creek	--[1]
Middle Skagit	**24**	**Mannser Creek**	**14.08**
	22	Upper Coal Creek	17.80
	21	Lower Coal Creek	18.30
	20	Upper Hansen Creek	--[2]
	19	Lower Hansen Creek	--[1]
Nookachamps	18	Lake Creek	19.25
	17	Upper Nookachamps Creek	24.97
	15	Middle Nookachamps Creek	22.13
	16	Upper East Fork Nookachamps Creek	22.12
	13	Lower East Fork Nookachamps Creek	22.10
	12	Lower Nookachamps Creek	24.15
Lower Skagit	51	Upper Carpenter Creek	--[1]
	42	Lower Carpenter Creek	--[1]
	48	Fisher Creek	16.14
	41	Maddox Creek/Big Ditch	--[2]
Skagit River	30	Skagit River near Hamilton	17.25
	45	North Fork Skagit River	--[1]

[1] Incomplete or quality issues with dataset.
[2] Logger was lost or was unable to be retrieved.

Table 2. Minimum and mean dissolved oxygen (DO) concentrations in water year 2025. Cells shaded green pass the state standard. Please see the Methods section in the Annual Report for a further description of the DO state standard.

Watershed	Site	Watercourse	Min. DO (mg/L)	Min. DO (% sat.)	Mean DO (mg/L)	Mean DO (% sat.)
Samish Bay	11	Upper Samish River	6.49	61.9	8.5	73.0
	8	Swede Creek	8.77	86.4	11.05	96.1
	6	Friday Creek	9.43	96.5	11.50	103.2
	4	Upper Thomas Creek	8.61	84.6	11.33	97.8
	3	Lower Thomas Creek	1.02	10.7	7.07	61.9
	32	Lower Samish River	9.11	88.3	11.01	97.5
	39	Colony Creek	7.89	78.5	10.83	93.2
	38	North Edison Drainage	0.09	1.1	7.79	89.9
	36	Edison Slough	4.83	43.6	11.87	136.3
	37	South Edison Drainage	1.56	14.2	6.64	72.7
	33	Alice Bay Drainage	2.40	22.4	9.08	101.9
Padilla Bay	49	Middle Joe Leary Slough	0.32	3.4	4.29	39.4
	50	Lower Joe Leary Slough	4.13	32.2	6.38	62.5
	34	No Name Slough	0.61	7.8	6.80	61.1
	52	Little Indian Slough	2.20	20.9	4.83	43.4
	40	Big Indian Slough	5.78	52.7	8.57	70.2
	47	Swinomish Channel*	6.21	68.0	8.49	88.1
Middle Skagit	25	Red Cabin Creek	11.19	94.0	12.10	100.5
	24	Mannser Creek	4.83	42.0	7.35	63.1
	23	Wiseman Creek	10.26	98.0	12.11	101.9
	22	Upper Coal Creek	10.27	93.9	11.99	102.1
	21	Lower Coal Creek	8.59	78.8	11.33	94.8
	20	Upper Hansen Creek	9.57	94.6	11.37	97.9
	19	Lower Hansen Creek	6.51	67.0	9.63	82.8
Nookachamps	18	Lake Creek	8.82	87.9	11.60	100.3
	17	Upper Nookachamps Creek	4.37	45.6	9.94	90.9
	15	Middle Nookachamps Creek	0.31	3.1	7.63	65.2
	16	Upper East Fork Nookachamps Creek	9.55	97.8	11.78	103.4
	13	Lower East Fork Nookachamps Creek	2.17	22.5	7.36	63.5
	12	Lower Nookachamps Creek	5.00	52.5	8.78	78.7
Lower Skagit	51	Upper Carpenter Creek	0.53	5.3	8.85	74.4
	42	Lower Carpenter Creek	5.20	45.3	8.78	78.2
	48	Fisher Creek	9.49	92.4	11.47	98.1
	43	Wiley Slough	0.27	3.0	4.17	39.4
	41	Maddox Creek/Big Ditch	0.74	8.7	7.17	66.9
	44	Sullivan Slough	1.72	16.8	5.04	47.6
Skagit River	30	Skagit River near Hamilton	8.31	76.2	11.02	95.1
	29	Skagit River near Mount Vernon	9.33	69.7	11.26	98.1
	45	North Fork Skagit River	9.25	85.7	11.30	98.5
	46	South Fork Skagit River	8.86	86.9	11.04	97.0

*The marine site is ranked as “Excellent” based on these results.

Table 3. *E. coli* results for water year 2025. Cells shaded dark green pass the state standard a geomean less 100 MPN/100 mL and less than 10% of the results are greater than 320 MPN/100 mL. The light green shading meets one of the two requirements.

Watershed	Site	Watercourse	n	Geometric Mean (MPN/100 mL)	Percentage > 320 MPN/100 mL
Samish Bay	11	Upper Samish River	26	16	0
	8	Swede Creek	25	50	12
	6	Friday Creek	26	33	4
	4	Upper Thomas Creek	26	247	40
	3	Lower Thomas Creek	26	61	4
	32	Lower Samish River	26	44	4
	39	Colony Creek	26	58	25
	38	North Edison Drainage	26	133	36
	36	Edison Slough	26	72	24
	37	South Edison Drainage	26	398	64
	33	Alice Bay Drainage	26	25	8
Padilla Bay	49	Middle Joe Leary Slough	26	80	24
	50	Lower Joe Leary Slough	26	111	12
	34	No Name Slough	25	81	15
	52	Little Indian Slough	24	94	19
	40	Big Indian Slough	26	114	33
	47	Swinomish Channel*	26	8	0
Middle Skagit	25	Red Cabin Creek	17	7	0
	24	Mannser Creek	26	19	0
	23	Wiseman Creek	24	17	9
	22	Upper Coal Creek	26	12	8
	21	Lower Coal Creek	20	80	38
	20	Upper Hansen Creek	26	45	16
	19	Lower Hansen Creek	22	48	0
Nookachamps	18	Lake Creek	26	32	8
	17	Upper Nookachamps Creek	26	13	4
	15	Middle Nookachamps Creek	26	20	0
	16	Upper East Fork Nookachamps Creek	26	23	0
	13	Lower East Fork Nookachamps Creek	26	48	4
	12	Lower Nookachamps Creek	26	71	12
Lower Skagit	51	Upper Carpenter Creek	26	79	12
	42	Lower Carpenter Creek	26	39	4
	48	Fisher Creek	26	43	4
	43	Wiley Slough	26	95	12
	41	Maddox Creek/Big Ditch	26	108	27
	44	Sullivan Slough	26	63	15
Skagit River	30	Skagit River near Hamilton	26	8	0
	29	Skagit River near Mount Vernon	26	19	4
	45	North Fork Skagit River	26	11	0
	46	South Fork Skagit River	26	11	8

*****Marine sites do not have an *E. coli* water quality standard.

Table 4. Fecal coliform results for water year 2025. Cells shaded dark green pass the former state standard of a geomean less 100 MPN and less than 10% of the results are greater than 200 MPN. The light green shading meets one of the two requirements.

Watershed	Site	Watercourse	n	Geometric Mean (MPN/100 mL)	Percentage > 200 MPN/100 mL
Samish Bay	11	Upper Samish River	26	18	0
	8	Swede Creek	25	67	20
	6	Friday Creek	26	39	8
	4	Upper Thomas Creek	26	270	48
	3	Lower Thomas Creek	26	90	32
	32	Lower Samish River	26	56	8
	39	Colony Creek	26	65	29
	38	North Edison Drainage	26	241	60
	36	Edison Slough	26	97	32
	37	South Edison Drainage	26	527	72
	33	Alice Bay Drainage	26	43	12
Padilla Bay	49	Middle Joe Leary Slough	26	118	36
	50	Lower Joe Leary Slough	26	188	44
	34	No Name Slough	25	101	38
	52	Little Indian Slough	24	159	35
	40	Big Indian Slough	26	140	56
	47	Swinomish Channel*	26	10	12
Middle Skagit	25	Red Cabin Creek	26	8	0
	24	Mannser Creek	24	22	0
	23	Wiseman Creek	26	21	14
	22	Upper Coal Creek	20	16	12
	21	Lower Coal Creek	26	102	48
	20	Upper Hansen Creek	22	52	24
	19	Lower Hansen Creek	26	70	10
Nookachamps	18	Lake Creek	26	43	15
	17	Upper Nookachamps Creek	26	16	4
	15	Middle Nookachamps Creek	26	29	4
	16	Upper East Fork Nookachamps Creek	26	28	8
	13	Lower East Fork Nookachamps Creek	26	74	19
	12	Lower Nookachamps Creek	26	96	35
Lower Skagit	51	Upper Carpenter Creek	26	115	19
	42	Lower Carpenter Creek	26	69	12
	48	Fisher Creek	26	73	23
	43	Wiley Slough	26	166	46
	41	Maddox Creek/Big Ditch	26	142	42
	44	Sullivan Slough	26	98	31
Skagit River	30	Skagit River near Hamilton	26	10	0
	29	Skagit River near Mount Vernon	26	21	4
	45	North Fork Skagit River	26	13	0
	46	South Fork Skagit River	26	13	8

* For marine sites, the former fecal coliform standard requires a geomean less than 14 MPN/100mL, with no more than 10% of the results greater than 43 MPN/100mL.