



Birch Bay Water and Sewer District

Serving the Greater Birch Bay Area Since 1968

7096 POINT WHITEHORN ROAD
BIRCH BAY, WA 98230-9675
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COMMISSIONERS

Don Montfort
Jeff Benner
Fred Reid

GENERAL MANAGER

Dan Eisses

Nitrogen Optimization Report – 2025

Question Number 1a

Permit Section S5.C.2.b.i – Discharge Evaluation

BBWSD WWTP - EFFLUENT DMR TIN (mg/l) Annual Comparison												
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
January	Average		14.74	22.01	17.46	21.27	22.65	17.18	14.05	9.47	8.91	11.22
February	Average		18.41	17.28	18.00	15.81	21.73	19.52	16.61	10.18	8.92	11.65
March	Average		22.73	17.90	22.56	23.24	26.50	16.31	27.19	9.04	9.70	10.81
April	Average		18.62	20.23	19.14	22.33	20.57	27.78	29.29	10.42	10.81	12.59
May	Average		23.82	26.59	28.82	23.04	25.54	25.10	34.81	11.31	8.87	10.88
June	Average		26.05	28.22	29.73	31.07	32.59	22.94	11.97	11.66	14.50	10.35
July	Average		29.04	34.28	37.00	33.79	36.10	27.62	12.85	14.78	15.62	12.77
August	Average	28.75	36.93	28.08	35.25	38.40	33.14	29.20	13.05	14.30	14.25	14.69
September	Average	38.95	16.37	27.16	41.96	32.13	33.14	33.97	12.04	14.84	12.55	12.04
October	Average	25.65	25.86	30.93	27.93	21.92	27.51	32.41	11.34	12.84	11.72	10.18
November	Average	12.43	17.01	17.20	27.39	23.80	23.56	20.70	8.68	10.18	11.03	8.33
December	Average	19.64	24.23	16.36	20.93	21.45	22.68	14.92	8.38	8.90	9.00	8.47
Overall Average		25.08	22.82	23.85	27.18	25.69	27.60	23.97	16.33	11.49	11.40	11.19



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WWTP - EFFLUENT DMR TIN (Lbs/mo) Annual Comparison

Monthly TIN (lbs) based on flows/TIN averaged on sample days

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
January		5,129	4,774	4,207	5,116	6,266	5,526	5,509	2,768	2,426	3,802
February		3,504	4,112	3,161	3,860	4,553	6,225	5,042	1,902	1,824	2,596
March		3,861	4,197	4,800	4,555	5,031	4,563	5,488	2,277	2,158	2,266
April		4,225	3,978	5,292	4,633	5,196	4,979	4,955	2,123	2,314	2,152
May		4,169	4,544	7,772	4,332	4,652	4,372	5,710	2,276	1,668	2,237
June		4,061	4,625	5,311	5,161	5,591	4,371	1,950	2,230	2,404	2,133
July	4,966	5,518	6,523	7,978	7,009	6,637	5,856	2,212	2,843	2,914	2,334
August	5,337	6,540	4,973	5,751	6,587	6,035	5,361	2,033	2,491	2,458	2,656
September	7,095	3,187	6,157	6,530	4,847	5,116	5,293	1,878	2,096	1,833	2,190
October	4,125	3,938	4,718	3,870	3,814	4,624	5,027	1,997	1,738	2,007	2,219
November	3,008	4,077	6,412	4,338	4,118	3,622	6,467	2,196	2,061	2,166	2,255
December	4,138	5,588	4,052	4,578	4,385	5,074	3,275	2,625	2,663	2,587	2,712
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Average LBS	4,778	4,483	4,922	5,299	4,868	5,200	5,110	3,466	2,289	2,230	2,463
Total Calendar Year LBS	28,668	53,798	59,066	63,588	58,417	62,396	61,317	41,593	27,468	26,757	29,553

2024 Influent TIN total: 80,900 LBS

2024 TIN removal rate: **63.5%**