

NELHA Water Quality Laboratory

Well 9 Data Table

1/23/2009 - 12/31/2025

Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ ⁺ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W9	-22.86	1/23/09	1145	-8.50	0.09 Low	2.24 70	59.0 826	1.03 14.4	340 9561	20.4	7.90	22.65	12,537	6.21	5.75	
W9	-22.86	2/23/09	1355	-9.11	0.09 Ebb	1.88 58	58.8 824	0.15 2.1	367 10305	20.4	7.75	22.61	12,515	6.17	2.91	
W9	-22.86	3/13/09	1354	-9.36	0.09 Flood	1.93 60	13.5 189	0.13 1.8	274 7700	20.8	7.81	22.36	12,377	6.33	0.30	
W9	-22.86	4/20/09	1058	-9.32	0.21 Flood	2.91 90	55.6 778	0.36 5.0	272 7648	19.3	7.71	22.58	12,499	6.58	0.41	
W9	-22.86	5/21/09	1352	-9.35	0.55 Flood	2.34 72	52.8 740	0.19 2.7	506 14206	18.1	7.90	23.00	12,731	6.57	1.30	
W9	-22.86	6/16/09	1030	-9.14	0.40 Flood	1.45 45	29.1 407	0.27 3.8	93 2611	17.8	7.22	22.65		6.20	0.09	
W9	-22.86	7/13/09	1343	-9.15	0.21 Low	2.17 67	51.3 719	0.51 7.1	100 2795	17.6	7.91	22.82	12,631	6.18	0.23	
W9	-22.86	8/18/09	1333	-8.99	0.61 Flood	2.42 75	55.0 771	0.59 8.2	321 9023	17.8	7.80	22.78	12,609	6.47	0.18	
W9	-22.86	9/21/09	1220	-9.17	0.15 Low	2.52 78	54.6 765	0.61 8.6	185 5207	18.0	8.38	22.63	12,526	6.36	0.18	
W9	-22.86	10/19/09	1457	-9.26	0.21 Flood	1.57 49	31.9 447	0.32 4.5	115 3224	18.0	8.16	22.87	12,659	5.92	0.25	
W9	-22.86	11/16/09	1212	-9.30	0.09 Low	2.60 80	48.9 686	0.92 12.9	359 10093	18.4	7.93	23.08	12,775	5.86	0.12	
W9	-22.86	12/7/09	1045	-9.03	0.46 Ebb	2.29 71	53.3 747	0.94 13.2	359 10088	18.9	7.85	23.13	12,803	5.65	0.42	
W9	-22.86	1/5/10	815	-8.94	0.49 High	2.23 69	45.9 643	1.86 26.0	355 9975	18.9	7.58	23.17	12,825	5.47	0.12	
W9	-22.86	2/1/10	1018	-9.04	0.12 Ebb	2.52 78	56.6 793	0.57 8.0	316 8862	18.9	7.94	22.95	12,703	5.94	0.39	
W9	-22.86	3/9/10	951	-9.32	0.12 Flood	2.42 75	50.9 713	0.71 10.0	376 10563	18.9	7.92	23.04	12,753	5.79	0.18	
W9	-22.86	4/6/10	918	-9.33	0.12 Flood	2.94 91	54.5 763	1.57 22.0	381 10706	19.9	7.88	23.21	12,847	6.22	0.50	
W9	-22.86	5/11/10	936	-9.39	0.00 Flood	2.13 66	49.9 699	1.43 20.0	304 8545	19.1	7.99	22.93	12,692	6.67	0.21	
W9	-22.86	6/15/10	1035	-9.36	0.06 Ebb	2.26 70	56.5 792	0.43 6.0	402 11277	19.7	7.93	22.91	12,681	6.30	0.13	
W9	-22.86	7/13/10	948	-9.31	0.06 Ebb	2.23 69	53.0 743	0.57 8.0	391 10975	19.5	7.90	22.81	12,626	6.10	0.28	
W9	-22.86	8/3/10	940	-9.03	0.49 Flood	2.39 74	55.3 774	0.62 8.7	393 11036	19.7	7.91	23.04	12,753	6.01	0.94	
W9	-22.86	9/14/10	939	-8.92	0.58 High	2.26 70	54.4 762	0.28 3.9	404 11335	19.4	7.87	22.95	12,703	6.32	0.44	
W9	-22.86	10/12/10	945	-8.86	0.58 Ebb	2.20 68	51.5 721	0.34 4.8	406 11410	19.4	7.88	23.00	12,731	6.02	0.38	
W9	-22.86	11/16/10	913	-9.12	0.02 Flood	2.20 68	53.8 754	0.13 1.8	396 11119	19.5	7.88	22.94	12,698	6.10	0.27	
W9	-22.86	12/14/10	936	-9.07	0.34 Flood	2.20 68	52.9 741	0.32 4.5	402 11288	19.4	7.88	22.78	12,609	6.01	0.61	
W9	-22.86	1/4/11	938	-9.09	0.12 Ebb	2.23 69	50.5 708	0.22 3.1	371 10411	19.3	7.81	22.60	12,510	6.03	0.84	
W9	-22.86	4/5/11	1013	-9.26	-0.06 Low	2.32 72	48.9 685	0.10 1.4	352 9888	19.8	7.76	22.80	12,620	5.07	0.27	
W9	-22.86	7/12/11	929	-9.44	0.37 Flood	2.20 68	50.3 705	0.06 0.8	390 10958	19.4	7.84	22.81	12,626	5.73	0.26	
W9	-22.86	10/11/11	948	-9.18	0.12 Low	2.32 72	52.2 731	0.18 2.5	378 10619	19.2	7.81	23.06	12,764	6.48	0.42	
W9	-22.86	1/10/12	947	-9.11	0.21 Ebb	2.13 66	52.0 728	0.41 5.7	369 10358	18.9	7.88	23.00	12,731	6.55	0.61	
W9	-22.86	5/1/12	1004	-9.22	0.18 Flood	2.29 71	46.3 648	0.18 2.5	373 10485	18.8	7.88	23.42	12,964	5.93	0.09	
W9	-22.86	7/18/12	919	-9.34	0.00 Low	2.23 69	50.2 703	0.48 6.7	382 10736	17.8	7.92	23.31	12,903	6.33	0.18	
W9	-22.86	10/16/12	1000	-9.15	0.18 Ebb	2.20 68	51.3 718	0.13 1.8	379 10654	18.0	7.85	23.36	12,930	5.95	0.04	
W9	-22.86	1/8/13	1022	-9.20	0.12 Flood	2.49 77	53.8 753	1.65 23.1	428 12016	17.9	7.83	23.27	12,881	6.17	0.06	
W9	-22.86	4/9/13	956	-9.37	-0.09 Low	2.49 77	49.5 693	0.21 2.9	374 10491	18.2	7.87	23.69	13,113	0.86	0.06	
W9	-22.86	7/17/13	1017	-9.17	0.49 Flood	2.13 66	45.6 639	0.29 4.1	373 10469	17.9	7.79	23.41	12,958	5.66	0.22	

NELHA Water Quality Laboratory

Well 9 Data Table

1/23/2000 - 12/31/2025

Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ ⁺ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W9	-22.86	10/15/13	945	-9.20	0.27 Flood	2.16 67	50.0 700	0.34 4.8	367 10304	17.9	7.83	23.56	13,041	6.12	0.25	
W9	-22.86	1/15/14	922	-9.15	0.15 Ebb	2.49 77	51.0 715	0.64 9.0	361 10138	17.9	7.89	23.32	12,908	6.12	0.02	
W9	-22.86	4/29/14	1037	-9.45	0.00 Flood	2.23 69	49.9 699	0.36 5.1	359 10074	18.1	7.85	23.21	12,847	6.61	0.02	
W9	-22.86	7/29/14	1012	-9.25	0.12 Ebb	2.36 73	49.3 691	0.14 2.0	368 10331	17.8	7.80	22.14	12,255	6.37	0.04	
W9	-22.86	11/5/14	1013	-9.17	0.12 Low	2.68 83	61.3 859	0.11 1.5	351 9866	17.8	7.87	22.88	12,665	7.36	0.04	
W9	-22.86	2/11/15	915	-9.09	0.24 Ebb	3.49 108	82.6 1156	0.50 7.0	445 12508	17.4	7.81	22.96	12,709	7.00	0.10	
W9	-22.86	5/19/15	1436	-9.23	0.48 Flood	2.60 81	64.1 897	0.59 8.3	338 9480	17.3	7.90	22.70	12,565	7.17	0.02	
W9	-22.86	7/21/15	1123	-9.16	0.24 Ebb	2.62 81	68.4 958	0.34 4.7	344 9655	17.4	7.80	23.47	12,991	7.20	0.04	
W9	-22.86	11/9/15	933	-9.10	0.13 Low	3.03 94	71.2 997	0.35 4.9	346 9720	17.0	7.76	22.33	12,360	7.88	0.08	
W9	-22.86	1/26/16	1544	-9.29	0.35 Flood	2.80 87	78.2 1096	0.21 3.0	348 9778	16.9	7.66	22.67	12,548	7.03	0.08	
W9	-22.86	4/21/16	1010	-9.32	0.00 Flood	3.01 93	84.6 1184	0.79 11.1	339 9507	16.9	7.67	22.37	12,382	7.82	0.10	
W9	-22.86	7/20/16	1445	-9.19	0.35 Flood	2.64 82	63.2 885	0.29 4.1	302 8482	16.7	7.79	22.24	12,310	6.77	0.03	
W9	-22.86	11/7/16	1340	-8.95	0.30 Ebb	2.77 86	66.5 931	0.10 1.4	339 9515	16.5	7.69	22.54	12,476	8.35	0.07	
W9	-22.86	3/22/17	1359	-9.10	0.15 Ebb	2.93 91	71.3 998	0.14 1.9	375 10530	16.6	7.69	22.38	12,388	7.82	0.10	
W9	-22.86	4/13/17	1010	-9.22	-0.05 Low	2.78 86	71.2 997	0.27 3.8	372 10438	16.6	7.80	22.39	12,393	6.35	0.14	
W9	-22.86	8/4/17	951	-9.19	0.10 Flood	2.81 87	60.6 848	0.06 0.9	364 10225	16.4	7.83	22.78	12,609	7.98	0.11	
W9	-22.86	10/18/17	1557	-8.91	0.50 Ebb	2.87 89	73.5 1030	0.81 11.4	342 9607	16.0	7.82	22.44	12,421	7.69	0.11	
W9	-22.86	1/17/18	1047	-9.08	0.16 Ebb	2.75 85	72.9 1021	0.33 4.6	352 9880	16.0	7.75	22.49	12,449	8.39	0.05	
W9	-22.86	5/9/18	1131	-9.21	0.30 High	2.85 88	77.6 1087	0.55 7.7	351 9847	16.0	7.74	22.97	12,714	7.74	0.05	
W9	-22.86	8/13/18	1710	-8.96	0.64 Flood	2.76 85	64.4 902	0.30 4.2	364 10221	17.2	7.76	22.87	12,659	7.08	0.09	
W9	-22.86	10/24/18	1041	-9.15	0.20 Flood	2.68 83	71.2 997	0.07 1.0	338 9482	17.4	7.71	22.52	12,465	5.92	0.10	
W9	-22.86	2/7/19	1222	-9.12	0.07 Low	2.97 92	97.8 1370	0.17 2.4	352 9892	16.4	7.56	22.91	12,681	8.11	0.05	
W9	-22.86	5/15/19	1241	-9.21	0.45 Flood	2.90 90	63.8 894	0.04 0.6	351 9863	16.2	7.61	23.35	12,925	7.14	0.05	
W9	-22.86	8/28/19	1016	-9.25	0.15 Flood	2.85 88	59.0 826	0.27 3.8	350 9830	16.2	7.78	23.01	12,737	6.60	0.11	
W9	-22.86	10/10/19	1450	-8.91	0.58 High	2.73 85	55.5 777	0.29 4.0	332 9320	16.7	7.90	22.24	12,310	7.42	0.08	
W9	-22.86	1/31/20	1407	-9.23	0.07 Low	2.92 91	64.3 900	-0.41 -5.7	338 9482	16.8	7.84	24.80	13,727	6.29	0.02	
W9	-22.86	6/2/20	1515	-8.84	0.55 High	2.45 76	55.3 774	0.12 1.7	343 9622	17.1	7.84	23.85	13,202	5.89	0.09	
W9	-22.86	8/18/20	1322	-9.22	0.50 Flood	2.32 72	55.3 774	0.29 4.1	355 9973	17.2	7.77	21.94	12,144	5.78	0.05	
W9	-22.86	12/9/20	1121	-8.92	0.50 High	2.53 78	55.6 779	0.13 1.8	351 9862	17.4	7.80	23.50	13,008	6.00	0.22	
W9	-22.86	2/17/21	1355	-9.18	0.02 Low	2.31 72	53.0 742	0.18 2.5	355 9973	17.5	7.79	23.26	12,875	5.82	0.07	
W9	-22.86	4/14/21	925	-9.20	-0.02 Low	2.24 69	59.7 836	0.13 1.8	349 9804	17.6	7.73	23.18	12,831	6.21	0.14	
W9	-22.86	7/6/21	1121	-9.26	0.35 Flood	2.50 77	57.0 798	0.05 0.7	341 9576	18.0	7.71	23.21	12,847	6.04	0.24	
W9	-22.86	11/5/21	1252	-9.20	0.25 Flood	2.40 74	55.7 780	0.21 2.9	357 10030	19.2	7.64	23.11	12,792	6.04	0.14	
W9	-22.86	2/4/22	1153	-9.16	0.03 Low	3.30 102	61.6 863	0.05 0.7	409 11496	17.8	7.77	22.78	12,609	5.94	0.21	
W9	-22.86	4/20/22	930	-9.32	0.02 Low	1.93 60	52.3 732	-0.01 -0.2	367 10304	17.9	7.75	22.99	12,726	6.00	0.07	

NELHA Water Quality Laboratory

Well 9 Data Table

1/23/2020 - 12/31/2025

Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W9	-22.86	7/12/22	938	-9.48	-0.10 Low	2.31 72	50.8 711	-0.38 -5.3	373 10469	17.9	7.78	22.71	12,571	5.65	0.04	
W9	-22.86	11/21/22	1347	-9.08	0.47 High	2.11 65	52.8 740	0.04 0.5	327 9171	18.0	7.81	22.74	12,587	5.91	0.33	
W9	-22.86	1/25/23	1134	-9.11	0.15 Ebb	2.41 75	59.7 836	0.07 1.0	365 10264	17.9	7.71	22.68	12,554	6.08	0.21	
W9	-22.86	4/25/23	1122	-9.38	0.02 Low	2.45 76	56.1 786	0.06 0.8	347 9734	17.9	7.74	23.03	12,748	6.01	0.14	
W9	-22.86	8/14/23	1138	-9.22	0.20 Flood	2.21 69	48.0 672	-0.07 -1.0	360 10108	18.0	7.78	22.55	12,482	5.76	0.15	
W9	-22.86	11/15/23	1005	-8.94	0.30 Ebb	2.03 63	48.8 684	0.11 1.5	494 13861	18.1	7.85	22.35	12,371	5.75	0.19	171.1
W9	-22.86	1/23/24	1349	-9.14	0.87 High	1.88 58	49.2 690	0.21 3.0	346 9716	18.2	7.82	22.26	12,321	5.51	0.14	160.4
W9	-22.86	5/3/24	939	-9.25	0.13 Flood	1.68 52	47.7 669	0.00 0.0	343 9623	18.4	7.80	22.67	12,548	5.62	0.87	185.1
W9	-22.86	7/30/24	1312	-9.02	0.63 High	1.77 55	50.2 703	-0.12 -1.7	331 9291	18.8	7.94	22.82	12,631	5.67	0.26	128.9
W9	-22.86	12/10/24	1242	-8.98	0.47 High	1.82 56	50.1 702	0.23 3.2	336 9450	19.5	7.90	23.04	12,753	5.74	0.12	170.0
W9	-22.86	1/9/25	1042	-9.10	0.30 High	1.91 59	52.6 736	0.46 6.5	339 9518	19.6	7.90	22.71	12,571	5.58	0.13	150.2
W9	-22.86	5/13/25	1019	-9.26	-0.08 Low	1.77 55	42.9 601	0.13 1.8	494 13865	19.7	7.84	22.96	12,709	4.85	0.16	199.0
W9	-22.86	7/30/25	1038	-8.94	0.25 Ebb	1.81 56	37.0 519	0.16 2.2	338 9493	19.6	7.85	23.23	12,858	4.61	0.39	224.7
W9	-22.86	12/17/25	1056	-9.11	0.25 Flood	2.05 64	38.1 533	0.00 0.0	897 25194	19.3	7.82	22.54	12,476	4.78	0.16	181.7
Mean				-9.16	0.24	2.39 74	55.74 781	0.34 4.7	358 10060	18.1	7.82	22.90	12,675	6.26	0.31	174.6
Std. Dev.				0.16	0.21	0.39 12	11.87 166	0.39 5.4	88 2465	1.2	0.13	0.42	236	0.98	0.70	27.8
Maximum				-8.50	0.87	3.49 108	97.84 1370	1.86 26.0	897 25194	20.8	8.38	24.80	13,727	8.39	5.75	224.7
Minimum				-9.48	-0.10	1.45 45	13.49 189	-0.41 -5.7	93 2611	16.0	7.22	21.94	12,144	0.86	0.02	128.9
n				84	84	84 84	84 84	84 84	84 84	84	84	84	83	84	84	9