

NELHA Water Quality Laboratory

Well 10A Data Table

1/21/2009 - 6/30/2025

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)
W10A	-12.19	1/21/09	1104	-2.97	0.12 Flood	3.03 94	65.5 917	0.14 1.9	252 7090	21.6	7.68	25.09	13,888	5.16	1.70	
W10A	-12.19	2/24/09	1224	-2.46	0.09 Flood	3.05 95	51.4 720	0.15 2.1	257 7224	21.6	7.65	26.03	14,408	5.06	3.03	
W10A	-12.19	3/13/09	1539	-2.23	0.37 Flood	2.62 81	32.8 460	0.13 1.8	198 5561	21.2	7.64	25.31	14,010	4.79	0.42	
W10A	-12.19	4/20/09	1551	-2.23	0.37 Flood	3.38 105	39.8 557	0.35 4.9	183 5145	22.5	7.67	25.86	14,314	5.01	15.1	
W10A	-12.19	5/27/09	840	-2.37	0.12 Ebb	3.11 96	42.0 588	0.13 1.8	377 10600	21.1	7.83	26.89	14,884	4.40	0.53	
W10A	-12.19	6/18/09	915	-2.31	0.21 Flood	2.19 68	31.6 443	0.31 4.3	158 4426	21.3	7.72	27.58		5.11	0.81	
W10A	-12.19	7/14/09	953	-2.16	0.43 High	2.82 87	40.3 564	0.62 8.7	137 3854	21.3	7.79	27.53	15,239	5.04	0.35	
W10A	-12.19	8/19/09	814	-2.44	0.03 Ebb	2.82 88	41.6 582	0.98 13.7	164 4619	21.6	7.83	28.64	15,853	4.83	0.21	
W10A	-12.19	9/22/09	817	-1.97	0.58 Ebb	2.20 68	26.7 374	0.50 7.0	112 3140	20.9	8.20	27.42	15,178	4.49	0.13	
W10A	-12.19	10/19/09	1543	-2.30	0.27 Flood	4.25 132	46.4 650	0.67 9.4	87 2450	20.7	7.91	27.36	15,144	4.93	3.98	
W10A	-12.19	11/17/09	1350	-2.49	0.15 Flood	3.33 103	44.1 618	0.85 11.9	149 4177	20.6	7.59	27.33	15,128	4.82	0.16	
W10A	-12.19	12/7/09	1458	-2.55	0.09 Ebb	3.45 107	54.4 762	1.01 14.2	254 7136	20.9	7.64	26.63	14,740	4.88	0.04	
W10A	-12.19	1/5/10	1323	-2.43	0.09 Ebb	2.94 91	45.0 630	1.07 15.0	245 6891	21.1	7.67	26.55	14,696	4.25	1.62	
W10A	-12.19	2/1/10	1451	-2.36	0.00 Flood	3.71 115	56.0 785	0.57 8.0	224 6288	21.1	7.68	26.36	14,591	4.49	1.44	
W10A	-12.19	3/9/10	1354	-2.41	0.15 High	4.20 130	53.0 742	0.64 9.0	269 7553	22.0	7.70	25.54	14,137	4.84	5.89	
W10A	-12.19	4/6/10	1138	-2.38	0.15 High	4.23 131	48.4 678	1.07 15.0	259 7283	20.6	7.68	26.28	14,547	4.84	0.30	
W10A	-12.19	5/11/10	1210	-2.17	0.30 Flood	3.55 110	45.7 640	0.79 11.0	233 6544	21.2	7.81	27.17	15,039	4.72	0.28	
W10A	-12.19	6/15/10	1338	-2.38	0.09 Flood	3.23 100	43.6 611	0.36 5.0	236 6626	20.6	7.74	26.99	14,940	4.29	0.17	
W10A	-12.19	7/13/10	1206	-2.50	0.09 Flood	3.81 118	50.6 709	0.21 3.0	265 7437	20.6	7.67	27.26	15,089	4.18	0.10	
W10A	-12.19	8/3/10	1202	-2.03	0.55 High	4.29 133	54.3 761	0.71 10.0	245 6883	20.9	7.66	27.84	15,410	4.09	0.20	
W10A	-12.19	9/14/10	1202	-1.98	0.52 Ebb	4.29 133	51.3 718	0.74 10.3	256 7201	20.6	7.62	27.62	15,288	3.58	0.24	
W10A	-12.19	10/12/10	1214	-2.11	0.40 Ebb	4.23 131	54.5 764	0.10 1.4	250 7013	20.9	7.61	27.72	15,344	4.49	0.09	
W10A	-12.19	11/16/10	1126	-2.06	0.37 Flood	3.78 117	58.1 814	0.19 2.6	229 6445	21.6	7.67	27.77	15,371	4.93	0.12	
W10A	-12.19	12/14/10	1205	-2.11	0.30 Ebb	4.55 141	60.1 842	0.23 3.2	251 7038	21.0	7.66	26.65	14,751	4.47	0.28	
W10A	-12.19	1/4/11	1154	-2.39	0.03 Low	4.29 133	58.5 819	0.48 6.7	270 7592	20.8	7.50	25.60	14,170	3.32	0.18	
W10A	-12.19	4/5/11	1217	-2.37	0.00 Flood	3.94 122	39.5 553	0.03 0.4	232 6520	21.2	7.64	26.39	14,608	2.36	0.19	
W10A	-12.19	7/12/11	1152	-2.23	0.43 Flood	4.33 134	51.3 718	0.09 1.3	270 7584	20.8	7.50	27.10	15,001	2.47	0.47	
W10A	-12.19	10/10/11	1426	-2.03	0.43 Flood	3.94 122	53.9 755	0.13 1.8	275 7726	19.8	7.55	26.82	14,846	3.99	0.35	
W10A	-12.19	1/10/12	1213	-2.50	0.00 Low	3.78 117	54.8 768	0.13 1.8	249 7000	20.5	7.39	26.35	14,585	2.53	0.42	
W10A	-12.19	5/1/12	1227	-2.05	0.40 Flood	3.39 105	47.9 671	0.08 1.1	228 6403	20.5	7.75	28.60	15,831	4.84	0.20	
W10A	-12.19	7/18/12	1114	-2.45	0.21 Flood	2.91 90	46.9 657	0.34 4.7	209 5873	20.5	7.81	25.54	14,137	5.69	0.23	
W10A	-12.19	10/16/12	1204	-2.37	0.09 Low	2.84 88	47.0 658	0.31 4.4	214 6000	20.6	7.68	28.84	15,964	4.92	0.33	
W10A	-12.19	1/8/13	1230	-2.24	0.18 Flood	3.39 105	53.1 744	0.52 7.3	271 7625	20.5	7.58	27.61	15,283	4.31	0.67	
W10A	-12.19	4/9/13	1422	-2.12	0.43 Flood	4.81 149	48.9 685	0.36 5.1	270 7573	19.0	7.51	26.71	14,785	3.80	2.41	
W10A	-12.19	7/17/13	1422	-1.96	0.58 Ebb	3.78 117	51.5 721	0.16 2.3	256 7203	19.0	7.50	27.23	15,073	5.07	0.54	

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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)
W10A	-12.19	10/15/13	1153	-2.10	0.46 Flood	3.52 109	49.3 691	0.41 5.7	244 6840	19.9	7.47	28.45	15,748	3.99	0.59	
W10A	-12.19	1/15/14	1148	-2.43	0.00 Low	4.20 130	69.6 975	0.44 6.1	260 7303	18.6	7.49	26.60	14,724	4.68	0.73	
W10A	-12.19	4/29/14	1415	-2.21	0.40 Flood	3.55 110	59.3 831	0.55 7.7	245 6878	18.0	7.46	27.10	15,001	5.57	0.11	
W10A	-12.19	7/29/14	1224	-2.38	0.12 Flood	2.71 84	39.1 547	0.29 4.0	158 4441	22.4	7.59	30.58	16,927	4.70	0.71	
W10A	-12.19	11/5/14	1220	-2.17	0.15 Flood	3.45 107	50.5 708	0.15 2.1	207 5819	21.6	7.57	28.25	15,637	3.32	0.72	
W10A	-12.19	2/10/15	1229	-2.25	0.24 High	5.01 155	55.3 775	0.49 6.8	267 7491	19.7	7.44	26.76	14,812	4.07	0.36	
W10A	-12.19	5/19/15	1212	-2.53	0.00 Flood	2.65 82	40.4 565	0.60 8.4	170 4763	23.3	7.87	28.52	15,787	4.84	0.24	
W10A	-12.19	7/21/15	1435	-2.36	0.18 Flood	4.33 134	55.1 772	0.57 8.0	225 6332	22.1	7.47	28.06	15,532	2.71	0.88	
W10A	-12.19	11/9/15	1314	-2.03	0.42 Flood	4.58 142	58.7 822	0.17 2.4	220 6175	21.3	7.34	27.14	15,023	4.34	0.34	
W10A	-12.19	1/26/16	1220	-2.47	0.08 Low	3.69 114	66.6 934	0.06 0.8	203 5692	21.6	7.14	28.33	15,681	1.16	0.05	
W10A	-12.19	4/21/16	1439	-1.98	0.55 High	4.22 131	54.1 758	0.36 5.0	211 5918	21.1	7.21	27.96	15,477	2.76	0.07	
W10A	-12.19	7/26/16	1100	-2.05	0.40 Flood	4.38 136	46.1 646	0.24 3.4	235 6612	20.5	7.30	26.64	14,746	3.83	0.49	
W10A	-12.19	11/10/16	1356	-1.93	0.50 Ebb	3.47 107	43.6 610	0.18 2.5	197 5536	21.7	7.27	27.98	15,488	3.49	0.50	
W10A	-12.19	3/22/17	1649	-2.22	0.07 Low	3.40 105	49.2 690	0.32 4.5	203 5691	21.2	7.23	29.07	16,091	2.70	2.34	
W10A	-12.19	4/13/17	1128	-2.39	-0.05 Low	3.21 100	57.1 799	0.31 4.4	180 5048	21.5	7.26	29.93	16,567	1.49	0.25	
W10A	-12.19	8/4/17	1425	-1.72	0.62 High	3.71 115	37.4 524	0.09 1.2	221 6196	21.4	7.50	28.87	15,980	4.17	1.02	
W10A	-12.19	10/19/17	1114	-2.28	0.20 Flood	4.07 126	60.0 840	1.40 19.6	220 6167	21.1	7.38	27.34	15,133	3.98	0.49	
W10A	-12.19	1/17/18	1457	-2.25	0.35 High	3.35 104	64.9 909	0.36 5.0	198 5548	21.3	7.15	28.47	15,759	1.90	0.25	
W10A	-12.19	5/10/18	1434	-2.05	0.35 ebb	4.02 125	55.3 774	0.22 3.1	213 5971	20.6	7.42	30.05	16,633	4.10	0.37	
W10A	-12.19	8/29/18	1649	-1.93	0.52 Flood	3.75 116	51.4 721	0.29 4.1	224 6295	21.6	7.47	27.32	15,122	3.90	1.21	
W10A	-12.19	10/25/18	1135	-2.31	0.20 Flood	3.97 123	58.4 818	0.03 0.4	162 4536	22.8	7.32	30.02	16,617	2.21	0.77	
W10A	-12.19	2/7/19	1512	-2.42	0.30 Flood	5.57 172	70.2 983	0.04 0.5	265 7453	19.6	7.25	26.46	14,646	4.31	0.22	
W10A	-12.19	5/16/19	1434	-1.95	0.45 Flood	4.83 150	51.3 718	0.11 1.5	204 5733	20.5	7.14	28.59	15,825	2.58	0.33	
W10A	-12.19	8/29/19	1039	-2.35	0.17 Flood	3.38 105	40.2 564	0.01 0.1	169 4750	24.1	7.23	29.91	16,556	0.40	0.71	
W10A	-12.19	10/10/19	1229	-1.97	0.55 High	3.65 113	40.3 564	0.60 8.4	167 4701	23.5	7.38	29.62	16,395	2.49	1.24	
W10A	-12.19	2/4/20	1534	-2.31	0.10 Ebb	3.86 120	64.2 900	-0.60 -8.4	175 4923	21.9	7.36	30.10	16,661	1.02	0.12	
W10A	-12.19	6/2/20	1137	-1.97	0.45 Flood	3.09 96	41.9 586	0.07 1.0	206 5796	21.5	7.64	28.92	16,008	4.11	0.52	
W10A	-12.19	8/19/20	1040	-2.35	0.10 Flood	2.93 91	53.4 748	1.56 21.8	168 4719	23.2	7.46	29.40	16,274	1.03	0.49	
W10A	-12.19	12/9/20	1017	-1.92	0.50 High	3.67 114	44.8 628	0.23 3.2	224 6277	21.7	7.54	28.47	15,759	4.02	1.06	
W10A	-12.19	2/17/21	1124	-2.21	0.10 Ebb	3.23 100	43.1 603	0.14 1.9	218 6112	22.0	7.56	28.08	15,543	4.35	0.20	
W10A	-12.19	4/14/21	1205	-2.43	0.00 Low	3.86 120	39.0 547	0.11 1.6	222 6242	22.4	7.40	28.00	15,499	3.29	0.25	
W10A	-12.19	7/7/21	1134	-2.27	0.40 Flood	3.98 123	49.0 686	0.08 1.1	244 6867	21.8	7.30	27.49	15,216	3.57	0.23	
W10A	-12.19	11/8/21	1222	-2.22	0.20 Low	3.78 117	45.5 638	0.26 3.7	244 6859	22.0	7.26	26.67	14,763	3.31	0.21	
W10A	-12.19	2/4/22	1223	-2.39	0.03 Low	5.76 178	42.5 595	0.12 1.7	281 7879	22.1	7.22	27.27	15,095	1.47	0.28	
W10A	-12.19	4/20/22	1155	-2.61	-0.07 Low	3.86 120	49.5 693	0.39 5.4	258 7232	21.6	7.20	26.32	14,569	2.71	0.26	

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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)
W10A	-12.19	7/12/22	1443	-1.98	0.79 High	3.76 116	59.8 838	-0.37 -5.2	264 7416	19.6	7.40	26.54	14,691	4.73	0.07	
W10A	-12.19	11/22/22	1129	-2.30	0.30 Flood	3.27 101	60.7 850	-0.01 -0.1	173 4852	21.9	7.15	29.59	16,379	2.83	0.91	
W10A	-12.19	1/26/23	1020	-2.10	0.25 Ebb	3.93 122	50.4 705	0.11 1.5	211 5928	20.8	7.32	27.74	15,355	2.93	0.07	
W10A	-12.19	4/25/23	1521	-2.39	0.13 Flood	4.08 126	60.9 853	0.12 1.7	259 7262	19.8	7.42	25.86	14,314	5.04	0.24	
W10A	-12.19	8/15/23	1052	-3.05	0.20 Flood	3.25 101	54.1 757	-0.05 -0.7	239 6718	20.0	7.42	26.79	14,829	5.16	0.30	
W10A	-12.19	11/15/23	1612	-2.84	0.33 High	3.01 93	56.9 797	-0.03 -0.4	165 4645	23.4	7.19	29.90	16,550	2.58	0.44	161.0
W10A	-12.19	1/23/24	1113	-3.01	0.55 Flood	2.73 85	61.8 865	0.06 0.9	155 4348	22.4	7.15	29.93	16,567	2.05	0.85	148.3
W10A	-12.19	5/7/24	1224	-2.88	0.30 Flood	3.89 120	53.8 753	0.04 0.5	229 6439	21.1	7.43	26.63	14,740	3.89	0.67	192.2
W10A	-12.19	7/31/24	1213	-2.57	0.67 High	3.72 115	53.6 750	0.16 2.2	223 6264	21.8	7.49	27.68	15,322	3.61	0.44	121.8
W10A	-12.19	12/10/24	1547	-2.97	0.10 Ebb	3.33 103	45.6 639	0.34 4.7	184 5163	21.2	7.36	28.81	15,947	3.80	0.28	160.5
W10A	-12.19	1/9/25	1515	-2.94	0.20 Ebb	2.54 79	55.7 781	0.49 6.9	149 4185	22.4	7.23	30.62	16,949	2.20	0.41	171.6
W10A	-12.19	5/14/25	1310	-3.37	0.20 Flood	3.65 113	52.9 740	0.06 0.9	229 6445	20.3	7.47	26.76	14,812	3.76	0.75	148.7
Mean				-2.32	0.26	3.66 113	50.64 709	0.33 4.6	220 6173	21.2	7.50	27.66	15,309	3.78	0.82	157.7
Std. Dev.				0.30	0.19	0.67 21	8.57 120	0.35 4.8	45 1258	1.1	0.21	1.32	734	1.19	1.82	21.8
Maximum				-1.72	0.79	5.76 178	70.19 983	1.56 21.8	377 10600	24.1	8.20	30.62	16,949	5.69	15.10	192.2
Minimum				-3.37	-0.07	2.19 68	26.70 374	-0.60 -8.4	87 2450	18.0	7.14	25.09	13,888	0.40	0.04	121.8
n				82	82	82 82	82 82	82 82	82 82	82	82	82	81	82	82	7