

NELHA Water Quality Laboratory

Well 12 Data Table

4/27/2009 - 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)
W12	-18.29	01/27/09	1024	-5.37	0.09 Ebb	1.64 51	20.1 282	0.14 1.9	146 4094	24.0	7.90	26.78	14,823	1.53	0.42	
W12	-18.29	02/24/09	1440	-5.32	0.24 Flood	1.40 43	20.4 286	0.15 2.1	319 8965	22.9	7.74	27.75	15,360	1.49	0.10	
W12	-18.29	03/16/09	1440	-5.56	0.06 Flood	1.23 38	13.1 184	0.13 1.8	233 6549	24.0	7.68	21.57	11,940	2.65	0.11	
W12	-18.29	04/22/09	922	-5.58	0.00 Flood	1.81 56	19.2 269	0.41 5.7	280 7867	24.6	7.64	26.68	14,768	1.69	1.81	
W12	-18.29	05/29/09	1324	-5.49	0.12 Low	1.55 48	17.8 249	0.19 2.7	482 13529	21.7	7.73	27.47	15,205	1.60	0.04	
W12	-18.29	06/19/09	1343	-4.89	0.70 High	1.78 55	17.9 251	0.45 6.3	218 6137	21.7	7.86	27.75	15,360	1.52	0.07	
W12	-18.29	07/31/09	1355	-4.90	0.64 High	1.79 55	17.2 241	0.39 5.5	226 6349	21.8	7.80	27.50	15,222	1.54	0.04	
W12	-18.29	08/20/09	1443	-4.91	0.61 Flood	1.82 56	17.3 242	1.12 15.7	287 8067	21.9	7.85	27.70	15,333	1.45	0.02	
W12	-18.29	09/24/09	1413	-5.30	0.30 Ebb	1.99 62	17.5 245	1.01 14.1	242 6800	21.8	8.30	27.79	15,382	1.57	0.05	
W12	-18.29	10/23/09	1606	-5.40	0.15 Low	1.88 58	17.2 241	0.74 10.4	169 4743	21.7	7.80	27.07	14,984	1.80	0.03	
W12	-18.29	11/17/09	1537	-5.51	0.21 Flood	2.40 74	17.2 241	0.86 12.1	283 7951	21.7	7.80	26.91	14,895	1.75	0.11	
W12	-18.29	12/08/09	1150	-5.23	0.37 Ebb	2.49 77	22.8 320	1.06 14.8	367 10317	22.1	7.75	26.40	14,613	1.67	0.02	
W12	-18.29	01/06/10	1121	-5.22	0.21 Ebb	2.23 69	19.1 267	0.71 10.0	333 9363	22.3	7.80	26.50	14,668	1.67	0.04	
W12	-18.29	02/01/10	1105	-5.33	0.00 Ebb	1.90 59	21.2 297	0.43 6.0	347 9736	22.2	7.87	27.02	14,956	2.03	0.10	
W12	-18.29	03/09/10	1058	-5.58	0.15 Flood	1.26 39	14.5 203	0.29 4.0	364 10231	23.2	7.81	26.31	14,563	1.91	0.09	
W12	-18.29	04/07/10	826	-5.50	0.09 Flood	2.20 68	20.4 286	1.36 19.0	341 9584	23.1	7.85	26.66	14,757	1.73	0.08	
W12	-18.29	05/12/10	1028	-5.53	0.06 Flood	1.58 49	17.4 244	1.57 22.0	328 9226	22.9	7.88	26.76	14,812	1.79	0.03	
W12	-18.29	06/15/10	1614	-5.24	0.46 Flood	1.42 44	14.5 203	0.57 8.0	298 8377	21.4	7.91	27.89	15,438	1.48	0.03	
W12	-18.29	7/13/10	1528	-4.96	0.46 Flood	1.61 50	17.9 251	0.01 0.1	363 10183	21.3	7.87	26.97	14,929	1.64	0.06	
W12	-18.29	8/3/10	1624	-5.15	0.30 Ebb	1.78 55	18.8 264	0.38 5.3	364 10236	21.4	7.86	26.71	14,785	1.68	0.04	
W12	-18.29	9/14/10	1630	-5.31	0.24 Low	1.65 51	16.6 233	0.71 10.0	345 9692	21.4	7.86	27.80	15,388	1.52	0.08	
W12	-18.29	10/12/10	1649	-5.27	0.18 Low	1.81 56	16.0 224	0.41 5.7	359 10095	21.4	7.86	27.33	15,128	1.70	0.33	
W12	-18.29	11/16/10	1531	-5.20	0.24 Ebb	1.74 54	19.1 268	0.06 0.9	377 10576	21.4	7.84	26.84	14,857	1.60	0.13	
W12	-18.29	12/14/10	1559	-5.39	0.06 Ebb	1.81 56	19.7 276	0.21 3.0	385 10806	21.4	7.84	26.46	14,646	1.59	0.08	
W12	-18.29	1/4/11	1540	-5.32	0.21 Flood	1.78 55	19.3 271	0.62 8.7	363 10191	21.3	7.76	26.12	14,458	1.68	0.09	
W12	-18.29	4/5/11	1552	-5.05	0.46 Flood	1.90 59	18.3 256	0.02 0.3	337 9473	21.3	7.70	26.41	14,619	1.39	0.07	
W12	-18.29	7/12/11	1556	-4.94	0.73 Ebb	1.68 52	17.2 241	0.09 1.2	334 9381	21.5	7.82	27.29	15,106	1.26	0.09	
W12	-18.29	10/11/11	1523	-5.10	0.43 High	1.65 51	17.2 241	0.22 3.1	339 9525	21.5	7.81	27.30	15,111	1.47	0.03	
W12	-18.29	1/10/12	1646	-5.32	0.24 Flood	1.49 46	17.1 239	0.14 1.9	322 9031	21.5	7.79	26.73	14,796	1.55	0.62	
W12	-18.29	5/1/12	1604	-5.18	0.30 Ebb	1.87 58	17.2 241	0.25 3.5	344 9675	21.4	7.80	27.87	15,427	1.40	0.05	
W12	-18.29	7/18/12	1454	-4.95	0.64 Flood	1.68 52	16.0 224	0.51 7.1	330 9260	21.6	7.92	28.04	15,521	1.49	0.07	
W12	-18.29	10/16/12	1446	-5.25	0.30 Flood	2.20 68	17.7 248	0.23 3.2	343 9630	21.4	7.82	27.29	15,106	1.50	0.10	
W12	-18.29	1/8/13	1545	-5.39	-0.03 Ebb	1.78 55	17.8 250	0.24 3.4	366 10268	21.4	7.77	27.43	15,183	1.48	2.25	
W12	-18.29	4/9/13	1525	-5.03	0.55 High	1.90 59	16.8 235	0.49 6.8	346 9721	21.4	7.82	27.19	15,050	1.37	0.04	
W12	-18.29	7/17/13	1644	-5.24	0.30 Ebb	1.68 52	17.4 244	1.52 21.3	334 9393	21.9	7.78	27.74	15,355	1.45	0.16	

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W12	-18.29	10/15/13	1512	-5.08	0.49 Ebb	1.65 51	17.0 238	0.26 3.6	327 9187	21.5	7.78	27.91	15,449	1.47	0.16	
W12	-18.29	1/15/14	1513	-5.34	0.15 Flood	1.90 59	17.6 247	0.33 4.6	336 9442	21.9	7.88	27.78	15,377	1.71	0.03	
W12	-18.29	4/29/14	1739	-4.95	0.61 High	1.68 52	18.1 253	0.45 6.3	337 9474	21.5	7.76	27.23	15,073	1.73	0.14	
W12	-18.29	7/29/14	1558	-5.09	0.46 Flood	1.81 56	15.8 222	0.14 2.0	331 9287	22.8	7.75	28.09	15,549	1.96	0.06	
W12	-18.29	11/5/14	1541	-5.05	0.36 Ebb	1.90 59	16.6 232	0.09 1.3	317 8893	21.9	7.77	27.81	15,394	1.40	0.10	
W12	-18.29	2/10/15	1533	-5.40	0.24 High	3.20 99	40.3 564	0.50 7.0	580 16283	21.5	7.73	26.75	14,807	1.54	0.25	
W12	-18.29	5/20/15	1036	-5.56	0.00 Ebb	1.73 54	17.3 242	0.21 3.0	303 8507	21.8	7.85	27.74	15,355	1.35	0.03	
W12	-18.29	8/6/15	1031	-5.18	0.43 Ebb	1.80 56	18.4 258	0.01 0.1	322 9057	21.9	7.74	26.90	14,890	1.48	0.02	
W12	-18.29	11/13/15	1340	-5.15	0.30 Flood	1.86 58	17.4 244	0.26 3.7	362 10181	21.7	7.87	27.55	15,250	1.35	0.06	
W12	-18.29	1/27/16	1505	-5.48	0.13 Flood	1.93 60	25.3 355	0.59 8.3	333 9343	21.6	7.76	26.47	14,652	1.52	0.05	
W12	-18.29	4/22/16	1245	-5.38	0.20 Flood	2.18 68	22.6 317	0.64 9.0	322 9032	22.6	7.74	26.73	14,796	1.66	0.10	
W12	-18.29	7/26/16	1401	-5.25	0.50 Ebb	1.75 54	14.2 199	0.22 3.1	274 7704	21.8	7.87	27.61	15,283	1.41	0.02	
W12	-18.29	11/7/16	1108	-4.95	0.50 Ebb	1.83 57	16.1 225	0.56 7.9	306 8605	21.6	7.70	27.47	15,205	1.63	0.02	
W12	-18.29	3/22/17	1105	-5.25	0.23 Flood	1.87 58	17.2 241	0.73 10.2	346 9723	21.8	7.80	27.29	15,106	1.36	0.05	
W12	-18.29	4/19/17	1016	-5.29	0.21 High	1.77 55	17.7 248	0.26 3.7	349 9794	21.6	7.75	27.29	15,106	1.21	0.03	
W12	-18.29	8/9/17	1023	-5.36	-0.01 Low	1.71 53	10.2 143	0.04 0.5	309 8666	21.8	7.84	29.10	16,108	1.45	0.08	
W12	-18.29	10/18/17	1026	-5.36	0.10 Low	1.79 55	15.5 217	0.35 4.9	312 8749	22.0	7.81	28.10	15,554	1.90	0.03	
W12	-18.29	1/18/18	1127	-5.35	0.10 Low	1.78 55	16.6 233	0.15 2.1	341 9579	21.6	7.77	27.38	15,156	1.42	0.05	
W12	-18.29	5/10/18	1704	-5.15	0.16 Ebb	1.61 50	16.3 229	0.15 2.1	324 9112	21.6	7.80	27.33	15,128	1.33	0.04	
W12	-18.29	8/30/18	1104	-5.21	0.24 Ebb	1.73 54	13.2 185	0.29 4.1	344 9669	22.4	7.80	27.88	15,432	1.50	0.03	
W12	-18.29	10/24/18	1554	-5.05	0.53 High	1.58 49	15.9 223	0.06 0.9	320 8988	22.2	7.81	27.37	15,150	2.67	0.13	
W12	-18.29	2/8/19	1217	-5.50	0.06 Low	1.87 58	22.7 319	0.12 1.7	339 9524	21.6	7.65	26.61	14,729	1.58	0.04	
W12	-18.29	5/15/19	1623	-5.08	0.40 Ebb	1.89 59	16.3 229	0.15 2.1	319 8953	21.7	7.69	28.18	15,598	1.42	0.02	
W12	-18.29	8/28/19	1522	-4.73	0.70 High	1.90 59	14.9 208	0.40 5.6	313 8803	21.8	7.81	28.61	15,836	1.51	0.06	
W12	-18.29	10/11/19	1416	-4.96	0.55 High	1.89 58	14.6 204	0.03 0.4	307 8612	21.9	7.80	27.77	15,371	1.55	0.05	
W12	-18.29	1/31/20	1142	-5.28	0.17 Ebb	2.08 65	18.0 252	0.11 1.5	312 8770	22.5	7.86	29.95	16,578	1.48	0.02	
W12	-18.29	6/3/20	1331	-4.80	0.50 Flood	1.85 57	15.6 219	0.19 2.7	316 8885	21.8	7.83	28.95	16,025	1.37	0.05	
W12	-18.29	8/19/20	1211	-5.33	0.15 Flood	1.93 60	16.5 231	0.16 2.2	304 8538	25.5	7.80	26.60	14,724	2.05	0.55	
W12	-18.29	12/9/20	1443	-5.02	0.20 Ebb	1.91 59	17.3 242	0.23 3.2	319 8961	21.9	7.79	28.78	15,930	1.44	0.11	
W12	-18.29	2/18/21	1147	-5.20	0.10 Low	1.60 50	16.3 228	0.14 2.0	293 8232	21.8	7.73	28.13	15,571	1.48	0.04	
W12	-18.29	4/14/21	1501	-5.25	0.40 Flood	1.57 49	15.8 221	0.16 2.2	312 8758	21.9	7.67	27.26	15,089	1.71	0.05	
W12	-18.29	7/6/21	1434	-4.91	0.60 High	1.66 51	18.2 255	0.08 1.1	300 8413	21.8	7.66	27.44	15,189	1.65	0.04	
W12	-18.29	11/5/21	1435	-5.29	0.43 High	1.69 52	18.1 254	1.19 16.6	330 9279	22.0	7.61	27.18	15,045	1.68	0.05	
W12	-18.29	2/8/22	1142	-5.26	1.30 Ebb	3.25 101	21.3 299	0.04 0.6	371 10428	21.5	7.73	26.95	14,918	1.66	0.09	
W12	-18.29	4/20/22	1532	-5.43	0.25 Flood	1.54 48	18.8 263	0.04 0.5	351 9848	21.5	7.67	26.39	14,608	1.83	0.02	

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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)
W12	-18.29	7/13/22	1032	-5.68	0.00 Flood	1.69 53	18.2 256	-0.34 -4.8	329 9227	21.6	7.66	27.52	15,233	1.60	0.02	
W12	-18.29	11/21/22	1022	-5.35	0.30 Flood	1.75 54	18.1 253	-0.01 -0.2	309 8675	21.5	7.77	27.58	15,266	1.59	0.17	
W12	-18.29	1/25/23	1602	-5.45	0.20 Flood	1.68 52	18.8 264	0.17 2.4	279 7836	21.4	7.73	26.59	14,718	1.77	0.27	
W12	-18.29	4/26/23	1105	-5.47	0.06 Low	1.92 60	19.8 278	0.34 4.7	318 8926	21.5	7.73	27.20	15,056	1.70	0.15	
W12	-18.29	8/14/23	1416	-4.94	0.60 High	1.77 55	17.4 244	0.05 0.7	311 8727	21.7	7.69	27.80	15,388	1.60	1.02	
W12	-18.29	11/15/23	1222	-5.29	0.18 Low	1.58 49	16.0 224	0.15 2.1	282 7914	21.6	7.82	28.10	15,554	1.52	0.16	116.3
W12	-18.29	1/24/24	1010	-5.30	0.36 Low	1.49 46	19.4 272	0.02 0.3	325 9125	21.6	7.74	26.90	14,890	1.67	0.11	161.4
W12	-18.29	5/3/24	1459	-5.12	0.30 Ebb	1.68 52	18.8 263	0.12 1.7	314 8826	21.5	7.74	27.20	15,056	1.63	0.71	227.5
W12	-18.29	7/30/24	1442	-4.78	0.60 High	1.69 52	16.9 237	-0.03 -0.4	343 9647	21.7	7.85	28.10	15,554	1.56	0.10	122.2
W12	-18.29	12/11/24	959	-5.22	0.30 Flood	1.73 54	19.2 269	0.21 2.9	310 8704	21.5	7.75	26.74	14,801	1.71	0.07	155.9
W12	-18.29	1/10/25	1000	-5.28	0.20 Flood	1.76 55	20.8 291	0.53 7.4	303 8505	21.5	7.76	26.73	14,796	1.70	0.21	126.8
W12	-18.29	5/13/25	1215	-5.36	0.20 Flood	1.67 52	18.9 265	0.13 1.8	311 8733	21.5	7.78	26.93	14,906	1.71	0.29	145.6
Mean				-5.23	0.31	1.81 56	17.9 251	0.35 4.8	324 9087	21.9	7.79	27.29	15,107	1.61	0.16	150.8
Std. Dev.				0.21	0.22	0.31 10	3.4 47	0.36 5.0	53 1488	0.7	0.09	0.94	519	0.23	0.34	37.9
Maximum				-4.73	1.30	3.25 101	40.3 564	1.57 22.0	580 16283	25.5	8.30	29.95	16,578	2.67	2.25	227.5
Minimum				-5.68	-0.03	1.23 38	10.2 143	-0.34 -4.8	146 4094	21.3	7.61	21.57	11,940	1.21	0.02	116.3
n				82	82	82 82	82 82	82 82	82 82	82	82	82	82	82	82	7