

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1989 - 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)
W3A	-8.53	6/27/89				3.14 97	63.0 882	0.19 2.7		22.1	7.793	11.870	6,570	6.93		
W3A	-8.53	8/10/89	1337			2.94 91	71.4 1000	0.58 8.1		21.8	7.796	9.202	5,094	8.17		
W3A	-8.53	8/16/89	1430			2.81 87	63.8 894	0.77 10.8		21.1	7.772	10.838	5,999	7.67		
W3A	-8.53	8/24/89	1118			2.91 90	62.2 871	0.48 6.7		22.1	7.891	10.477	5,799	7.73		
W3A	-8.53	8/29/89	1032			3.26 101	71.9 1007	0.38 5.3		21.7	7.842	9.896	5,478	7.33		
W3A	-8.53	8/29/89	1032			3.23 100	71.9 1007	0.38 5.3								
W3A	-8.53	10/30/89	1045			3.22 100	73.5 1029	0.01 0.1	645 18115	22.1	7.782	9.443	5,227	6.29		
W3A	-8.53	11/16/89	1009			3.35 104	69.0 966	0.06 0.8	669 18789	22.0	7.908	10.806	5,981	8.09		
W3A	-8.53	12/12/89	1021			3.35 104	77.6 1087	0.15 2.1	702 19716	21.7	7.877	9.345	5,173	7.66		
W3A	-8.53	1/11/90	1058			2.60 81	70.1 982	0.01 0.1	719 20193	22.0	7.835	9.797	5,423	7.85		
W3A	-8.53	2/14/90	1405			3.06 95	66.9 937	0.03 0.4	666 18705	21.9	7.839	10.504	5,814	7.65		
W3A	-8.53	3/7/90	1352			2.86 89	72.9 1021	0.00 0.0	661	21.8	7.972	9.928	5,495	7.65		
W3A	-8.53	4/2/90	1417			2.94 91	69.7 976	0.52 7.3	649 18227	21.8	7.994	9.799	5,424	7.37		
W3A	-8.53	5/17/90	1010			3.01 93	69.2 969	0.00 0.0	629 17666	22.3	7.940	9.954	5,510	7.40		
W3A	-8.53	6/16/90	926			3.13 97	61.4 860	0.24 3.4	611 17160	22.9	7.993	12.476	6,906	6.59		
W3A	-8.53	7/31/90	1002			2.75 85	44.9 629	0.01 0.1	551 15475	21.8	7.940	16.675	9,230	5.49		
W3A	-8.53	8/30/90	935			2.56 79	52.9 741	0.37 5.2	571 16037	22.4	7.921	16.416	9,087	5.75		
W3A	-8.53	9/6/90	1008			2.99 93	63.7 893	0.00 0.0		21.9	7.969	12.994	7,193	5.75		
W3A	-8.53	10/25/90	1008			2.80 87	58.3 816	0.00 0.0	661 18565	22.1	7.962	13.063	7,231	6.25		
W3A	-8.53	11/14/90	1025			2.63 81	57.1 800	0.11 1.5	616 17301	22.2	7.944	14.241	7,883	5.82		
W3A	-8.53	12/19/90	1009			2.23 69	51.8 726	0.10 1.4	547 15363	21.7	7.928	17.745	9,822	5.19		
W3A	-8.53	1/24/91	820			2.64 82	60.9 853	0.01 0.1	582 16346	21.7	7.948	13.964	7,729	6.30		
W3A	-8.53	2/7/91	838			2.84 88	62.3 873	0.25 3.5	597 16767	21.9	8.010	10.985	6,080	6.84		
W3A	-8.53	3/12/91	902			2.76 85	68.7 962	0.03 0.4	612 17188	21.9	8.017	9.461	5,237	7.36		
W3A	-8.53	4/4/91	831			2.65 82	62.9 880	0.01 0.1	626 17582	22.0	8.019	10.828	5,994	7.31		
W3A	-8.53	5/22/91	912			2.57 80	31.4 440	0.00 0.0	632 17750	22.1	7.987	11.872	6,571	6.96		
W3A	-8.53	6/26/91	918			2.90 90	76.1 1066	0.00 0.0	656 18424	21.9	8.014	9.692	5,365	7.52		
W3A	-8.53	7/24/91	950			2.41 75	63.6 891	0.08 1.1	608 17076	19.4	7.977	12.312	6,815	6.83		
W3A	-8.53	8/23/91	911			2.58 80	66.4 930	0.09 1.3	628 17638	21.7	7.924	12.770	7,069	6.54		
W3A	-8.53	9/24/91	837			2.76 85	67.7 948	0.00 0.0	629 17666	21.8	7.951	11.167	6,181	6.98		
W3A	-8.53	10/23/91	847			2.87 89	66.4 930	0.00 0.0	875 24575	21.9	7.969	12.113	6,705	6.82		
W3A	-8.53	11/20/91	846			3.24 100	61.7 864	0.00 0.0	704 19772	21.8	7.947	12.446	6,889	6.57		
W3A	-8.53	12/11/91	928			2.55 79	62.3 873	0.00 0.0	602 16907	21.9	7.942	13.513	7,480	6.25		
W3A	-8.53	1/29/92	919			2.76 85	67.3 943	0.00 0.0	627 17610	22.0	7.976	11.705	6,479	6.88		

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Well 3A Data Table

6/27/1990 - 12/31/2005

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)
W3A	-8.53	2/19/92	949			2.81 87	69.4 972	0.00 0.0	592 16627	22.1	7.993	10.893	6,030	7.11		
W3A	-8.53	3/17/92	900			2.83 88	70.4 986	0.00 0.0	662 18593	21.9	7.997	10.493	5,808	7.30		
W3A	-8.53	4/8/92	849			2.80 87	66.1 926	0.04 0.6	613 17216	22.0	7.965	11.812	6,538	7.79		
W3A	-8.53	5/6/92	901			2.77 86	66.5 931	0.00 0.0	661 18565	21.9	7.959	11.682	6,466	6.97		
W3A	-8.53	6/23/92	901			2.66 82	62.0 868	0.12 1.7	646 18143	21.8	7.933	13.270	7,345	6.60		
W3A	-8.53	7/29/92	847			2.75 85	67.3 943	ND 0.0	674 18930	21.9	7.959	10.665	5,903	7.24		
W3A	-8.53	8/26/92	835			3.16 98	83.6 1171	0.00 0.0	704 19772	22.0	7.983	9.796	5,422	7.40		
W3A	-8.53	9/22/92	832			2.77 86	68.0 952	0.00 0.0	675 18958	21.9	7.961	11.938	6,608	6.75		
W3A	-8.53	10/27/92	855			2.83 88	62.7 879	0.00 0.0	644 18087	21.9	7.938	13.749	7,610	6.33		
W3A	-8.53	11/17/92	910			2.61 81	64.4 901	0.08 1.1	633 17778	21.9	7.945	13.698	7,582	6.33		
W3A	-8.53	12/8/92	853			2.88 89	72.5 1015	0.05 0.7	675 18958	22.0	7.979	11.114	6,152	7.03		
W3A	-8.53	1/26/93	908			2.69 83	67.4 944	0.16 2.2	662 18604	22.0	7.987	11.772	6,516	6.82		
W3A	-8.53	2/23/93	840			2.80 87	70.5 988	0.00 0.0	671 18854	21.8	7.987	12.087	6,690	6.77		
W3A	-8.53	3/16/93	840			2.81 87	68.7 962	0.07 1.0	675 18955	21.8	7.979	12.026	6,657	6.78		
W3A	-8.53	4/27/93	844			2.74 85	67.6 947	0.13 1.8	670 18826	21.9	7.957	12.768	7,067	6.61		
W3A	-8.53	5/25/93	836			2.75 85	68.1 954	0.00 0.0	674 18930	21.9	7.956	12.352	6,837	6.67		
W3A	-8.53	6/28/93	915			2.65 82	65.3 915	0.02 0.3	653 18340	21.9	7.939	13.252	7,335	6.45		
W3A	-8.53	8/9/93	825			2.76 85	69.4 973	0.00 0.0	611 17160	21.9	7.977	12.030	6,659	6.80		
W3A	-8.53	WELL SET RELOCATED														
W3A	-8.53	6/21/94	835			3.67 114	84.5 1184	0.27 3.8	675 18957	21.9	7.987	8.374	4,635	7.79		
W3A	-8.53	8/23/94	902			3.56 110	86.5 1212	0.31 4.3	950 26677	22.1	7.986	8.498	4,704	7.76		
W3A	-8.53	10/25/94	923			3.57 111	81.9 1147	0.26 3.6	665 18671	21.8	8.006	8.403	4,651	7.69		
W3A	-8.53	11/28/94	1310			3.50 108	83.5 1169	0.23 3.2	663 18630	22.3		8.777	4,858			
W3A	-8.53	12/13/94	939			3.46 107	85.4 1196	0.00 0.0	711 19963	22.2		8.390	4,644			
W3A	-8.53	1/24/95	918			3.49 108	83.4 1167	0.23 3.2	660 18522	22.0	8.027	8.773	4,856	7.57		
W3A	-8.53	2/14/95	901			3.38 105	83.1 1165	0.16 2.2	665 18680	22.1	8.023	8.899	4,926	7.56		
W3A	-8.53	3/14/95	949			3.44 107	83.0 1163	0.08 1.1	668 18750	22.0	8.014	8.267	4,576	7.87		
W3A	-8.53	4/25/95	1018			3.41 106	84.0 1177	0.27 3.8	702 19716	21.8	8.034	8.115	4,492	7.76		
W3A	-8.53	5/9/95	907			3.28 102	84.3 1180	0.12 1.7	704 19767	21.9	8.003	7.917	4,382	7.83		
W3A	-8.53	6/27/95	920			3.39 105	84.4 1183	0.40 5.6	674 18918	22.0	8.017	8.126	4,498	7.87		
W3A	-8.53	7/25/95	935			3.25 101	84.4 1182	0.01 0.1	688 19334	22.1	7.999	8.153	4,513	6.85		
W3A	-8.53	8/22/95	1024			3.29 102	82.4 1155	0.32 4.5	682 19140	22.3	7.994	8.310	4,600	7.62		
W3A	-8.53	9/12/95	805			3.46 107	83.6 1172	0.36 5.0	679 19059	22.2	8.046	8.408	4,654	7.60		
W3A	-8.53	10/17/95	938			3.45 107	81.3 1138	0.14 2.0	685 19233	22.3	8.033	8.571	4,744	7.49		

NELHA Water Quality Laboratory

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6/27/1990 - 12/31/2005

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)
W3A	-8.53	11/7/95	900			3.40 105	83.6 1171	0.22 3.1	669 18802	22.2	8.051	8.562	4,739	7.56		
W3A	-8.53	12/6/95	910			3.36 104	83.1 1164	0.11 1.5	675 18958	22.4	8.068	8.546	4,730	7.53		
W3A	-8.53	6/17/96	944			3.31 103	85.3 1195	0.04 0.6	682 19149	22.2	8.085	8.527	4,720	7.57		
W3A	-8.53	2/27/96	954			3.30 102	81.9 1148	0.10 1.4	676 18989	22.4	8.043	8.167	4,521	7.69		
W3A	-8.53	3/13/96	1025			3.15 98	78.2 1095	0.15 2.1	656 18431	22.6	8.022	7.649	4,234	7.81		
W3A	-8.53	4/2/96	838			3.26 101	80.3 1125	0.09 1.3	659 18519	22.4	8.028	8.037	4,449	7.70		
W3A	-8.53	5/15/96	952			3.35 104	82.7 1159	0.13 1.8	663 18626	22.9	7.986	8.319	4,605	7.59		
W3A	-8.53	6/18/96	936			3.34 103	83.7 1172	0.07 1.0	703 19744	22.4	8.018	8.439	4,671	7.57		
W3A	-8.53	7/17/96	1008			3.36 104	86.0 1205	0.17 2.4	709 19916	22.6	8.031	8.156	4,515	7.70		
W3A	-8.53	8/6/96	1019			3.31 103	86.6 1214	0.17 2.4	674 18920	22.6	8.013	8.308	4,599	7.70		
W3A	-8.53	9/4/96	1013			3.37 104	88.0 1232	0.22 3.1	702 19722	22.9	8.017	8.248	4,565	7.71		
W3A	-8.53	10/9/96	1017			3.35 104	90.4 1266	0.21 2.9	671 18852	22.9	8.031	7.602	4,208	8.04		
W3A	-8.53	11/6/96	1005			3.35 104	90.0 1261	0.20 2.8	694 19489	23.0	7.994	7.808	4,322	7.84		
W3A	-8.53	12/17/96	1002			3.23 100	85 1186	0.22 3.1	657 18451	22.8	8.008	8.359	4,627	7.64		
W3A	-8.53	1/14/97	1018			2.84 88	75 1052	0.06 0.8	630 17691	23.0	8.042	6.982	3,865	7.76		
W3A	-8.53	2/10/97	1117			3.10 96	79 1105	0.20 2.8	645 18121	23.2	8.020	7.124	3,943	7.81		
W3A	-8.53	3/10/97	1143			3.06 95	83 1162	0.11 1.5	675 18958	23.1	8.032	7.357	4,072	7.79		
W3A	-8.53	4/23/97	1006			3.31 103	81 1138	0.22 3.1	558 15663	22.5	8.037	7.461	4,130	7.44		
W3A	-8.53	5/28/97	846			3.33 103	90 1263	0.05 0.7	587 16486	22.1	8.049	7.514	4,159	7.62		
W3A	-8.53	6/17/97	945			3.25 101	84 1175	0.19 2.7	619 17393	21.8	8.047	7.480	4,140	7.65		
W3A	-8.53	7/15/97	936			3.39 105	94 1311	0.08 1.1	665 18680	22.0	8.038	7.279	4,029	7.70		
W3A	-8.53	8/26/97	950			3.24 100	91 1270	0.29 4.1	680 19095	22.1	8.098	7.511	4,158	7.61		
W3A	-8.53	9/23/97	1212			3.29 102	89 1240	0.23 3.2	662 18587	23.7	8.123	7.937	4,393	7.49		
W3A	-8.53	10/15/97	913			3.26 101	91.2 1277	0.02 0.3	660 18536	22.6	8.140	7.254	4,015	7.63		
W3A	-8.53	11/4/97	1030			3.24 100	92.8 1300	0.07 1.0	662 18595	22.6	8.147	7.873	4,358	7.50		
W3A	-8.53	12/16/97	946			3.30 102	84.8 1188	0.05 0.7	658 18489	22.5	8.132	8.296	4,592	7.54		
W3A	-8.53	1/5/98	1225			3.34 103	86.4 1211	0.18 2.5	661 18554	22.6	8.152	8.106	4,487	7.63		
W3A	-8.53	2/3/98	1043			3.25 101	83.5 1170	0.04 0.6	673 18902	22.5	8.132	8.198	4,538	7.59		
W3A	-8.53	3/10/98	1059			3.45 107	85 1188	0.06 0.8	663 18618	22.5	7.996	8.252	4,568	7.66		
W3A	-8.53	4/14/98	925			3.43 106	84 1170	0.02 0.3	672 18859	22.2	8.011	8.177	4,526	7.70		
W3A	-8.53	5/12/98	1050			3.47 107	85.3 1195	0.25 3.5	668 18764	22.3	8.010	8.458	4,682	7.64		
W3A	-8.53	6/2/98	1043			3.39 105	83 1167	0.04 0.6	660 18549	22.1	8.007	8.847	4,897	7.64		
W3A	-8.53	7/14/98	1053			3.42 106	80.7 1130	0.16 2.2	666 18694	22.2	7.993	8.717	4,825	7.48		
W3A	-8.53	8/11/98	1112			3.48 108	85.1 1192	0.07 1.0	674 18916	22.1	7.986	8.477	4,692	7.84		

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6/27/1990 - 12/31/2005

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)
W3A	-8.53	9/15/98	1146			3.42 106	82.3 1152	0.15 2.1	666 18713	22.1	7.974	8.897	4,925	7.70		
W3A	-8.53	10/13/98	1020			3.38 105	84.7 1186	0.02 0.3	726 20390	22.5	7.989	8.521	4,717	8.28		
W3A	-8.53	11/4/98	1053			3.35 104	84.1 1178	0.06 0.8	715 20076	22.4	8.002	8.299	4,594	7.68		
W3A	-8.53	12/16/98	1033			3.38 105	82 1151	0.15 2.1	672 18865	22.4	7.993	8.779	4,859	7.56		
W3A	-8.53	1/12/99	1108			3.34 103	81 1137	0.13 1.8	668 18770	22.5	7.992	8.790	4,865	7.69		
W3A	-8.53	2/3/99	1056			3.26 101	82.3 1152	0.17 2.4	669 18792	22.3	7.985	9.102	5,038	7.65		
W3A	-8.53	3/2/99	1104			3.33 103	77.6 1087	0.16 2.2	661 18559	22.2	7.982	9.188	5,086	8.34		
W3A	-8.53	4/6/99	1054			3.26 101	82.5 1156	0.08 1.1	677 19000	22.2	7.999	8.570	4,744	7.88		
W3A	-8.53	5/4/99	1059			3.15 98	76.2 1067	0.28 3.9	662 18598	22.1	7.985	8.956	4,957	7.65		
W3A	-8.53	6/2/99	1043			3.30 102	83.0 1163	0.70 9.8	728 20446	22.1	7.995	8.570	4,744	7.83		
W3A	-8.53	7/7/99	1116			3.33 103	77.5 1086	0.09 1.3	677 19014	22.4	7.980	8.918	4,936	7.67		
W3A	-8.53	8/25/99	1049			3.27 101	84.6 1185	0.09 1.3	682 19157	22.5	8.039	8.401	4,650	7.86		
W3A	-8.53	9/8/99	1052			3.24 100	85.2 1193	0.07 1.0	687 19292	22.2	8.063	8.486	4,697	7.78		
W3A	-8.53	10/6/99	1057			3.41 106	83.5 1169	0.23 3.2	650 18247	22.4	8.044	8.313	4,601	7.73		
W3A	-8.53	11/3/99	1111			3.27 101	80.1 1122	1.39 19.5	676 18975	22.5	8.046	8.832	4,889	7.51		
W3A	-8.53	12/15/99	1128			3.32 103	80.1 1122	1.03 14.4	680 19084	22.5	8.001	8.513	4,712	7.46		
W3A	-8.53	1/11/00	1103			3.25 101	82.6 1157	0.65 9.1	669 18795	22.4	7.998	9.086	5,029	7.43		
W3A	-8.53	2/14/00	1120			3.30 102	81.7 1144	0.84 11.8	650 18242	22.3	8.024	8.972	4,966	7.52		
W3A	-8.53	3/22/00	1130			3.16 98	81.7 1144	0.83 11.6	675 18961	22.1	8.035	8.844	4,895	7.56		
W3A	-8.53	4/12/00	1113			3.36 104	82.7 1158	0.28 3.9	672 18873	22.2	8.030	9.017	4,991	7.49		
W3A	-8.53	5/17/00	1050			3.31 103	83.4 1168	0.89 12.5	675 18961	22.2	8.035	8.630	4,777	7.75		
W3A	-8.53	6/6/00	1128			3.26 101	82.3 1153	0.26 3.6	673 18887	22.1	8.028	8.879	4,915	7.68		
W3A	-8.53	7/31/00	1117			3.26 101	77.0 1079	0.44 6.2	665 18688	22.2	8.033	9.159	5,070	7.63		
W3A	-8.53	8/30/00	1122			3.24 100	81.3 1139	0.57 8.0	670 18814	22.4	8.006	8.776	4,858	7.77		
W3A	-8.53	9/6/00	1101			3.23 100	78.0 1093	1.05 14.7	661 18559	22.5	7.988	9.513	5,266	7.81		
W3A	-8.53	10/25/00	1038			3.33 103	82.1 1150	0.81 11.3	702 19716	22.7	7.998	8.501	4,706	7.34		
W3A	-8.53	11/14/00	1052			3.04 94	76.4 1070	1.26 17.6	655 18390	22.7	8.020	7.952	4,402	7.35		
W3A	-8.53	12/19/00	1043			3.18 98	78.5 1100	1.72 24.1	670 18820	22.6	8.007	8.697	4,814	7.17		
W3A	-8.53	1/24/01	1037			3.14 97	82.1 1150	0.27 3.8	672 18882	22.6	7.999	8.639	4,782	7.81		
W3A	-8.53	2/7/01	1106			3.28 102	80.6 1129	0.07 1.0	676 18980	22.5	8.013	8.775	4,857	7.15		
W3A	-8.53	3/12/01	1051			3.23 100	77.8 1090	0.62 8.7	664 18660	22.6	7.971	8.920	4,937	7.11		
W3A	-8.53	4/18/01	1043			3.31 103	82.4 1154	0.49 6.9	679 19070	22.5	7.970	8.726	4,830	7.67		
W3A	-8.53	5/14/01	928			4.82 149	82.3 1152	0.75 10.5	685 19250	22.4	7.984	8.803	4,873	7.72		
W3A	-8.53	6/13/01	1100			3.58 111	82.9 1161	2.94 41.2	680 19090	22.2	7.986	8.907	4,930	7.71		

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 12/31/2005

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)
W3A	-8.53	7/25/01	1031			3.36 104	85.8 1202	0.03 0.4	677 19014	22.2	7.982	8.795	4,868	7.69		
W3A	-8.53	8/20/01	1014			3.22 100	84.0 1176	0.42 5.9	687 19295	22.5	7.997	8.670	4,799	7.62		
W3A	-8.53	9/18/01	1052			3.34 103	87.8 1230	0.29 4.1	674 18930	22.7	7.988	8.404	4,652	7.78		
W3A	-8.53	10/9/01	1052			3.54 110	86.0 1205	0.38 5.3	737 20685	22.7	7.974	9.159	5,070	7.51		
W3A	-8.53	11/6/01	1010			3.24 100	90.4 1267	0.08 1.1	669 18795	22.7	7.969	9.317	5,157	7.43		
W3A	-8.53	12/18/01	1005			2.75 85	82.5 1156	0.06 0.8	668 18767	22.8	7.976	8.754	4,846	7.52		
W3A	-8.53	1/8/02	1019			3.20 99	84.3 1180	0.45 6.3	659 18517	22.6	7.991	8.529	4,721	7.32		
W3A	-8.53	2/27/02	1018			3.30 102	89.2 1250	0.08 1.1	684 19208	22.5	7.997	8.676	4,802	7.24		
W3A	-8.53	3/19/02	1025			3.20 99	82.3 1153	0.07 1.0	669 18786	22.3	8.000	8.615	4,769	7.26		
W3A	-8.53	4/9/02	1017			3.26 101	82.4 1155	0.05 0.7	665 18680	22.4	7.980	7.994	4,425	7.35		
W3A	-8.53	5/21/02	1020			3.20 99	82.6 1157	0.02 0.3	665 18677	22.4	7.996	8.314	4,602	7.71		
W3A	-8.53	6/18/02	1033			3.25 101	86.8 1215	0.13 1.8	665 18674	22.6	7.989	8.830	4,888	7.57		
W3A	-8.53	7/17/02	1011			3.30 102	89.3 1251	0.08 1.1	663 18623	22.7	8.002	8.877	4,914	7.55		
W3A	-8.53	8/22/02	1035			3.34 103	84.5 1183	0.13 1.8	682 19154	22.4	7.997	8.659	4,793	7.65		
W3A	-8.53	9/24/02	1049			3.22 100	97.4 1365	0.20 2.8	682 19143	22.9	8.033	8.476	4,692	7.76		
W3A	-8.53	10/16/02	1044			3.19 99	94.9 1329	0.12 1.7	669 18789	23.0	8.014	8.091	4,479	7.74		
W3A	-8.53	11/6/02	1029			3.18 98	94.0 1317	1.02 14.3	664 18646	22.7	7.988	8.360	4,627	7.71		
W3A	-8.53	12/19/02	1117			3.25 101	89.8 1258	0.08 1.1	669 18795	22.9	8.005	8.556	4,736	7.66		
W3A	-8.53	1/22/03	1107			3.18 98	80.5 1128	0.33 4.6	657 18438	22.6	7.987	9.507	5,262	8.77		
W3A	-8.53	2/20/03	1034			3.06 95	85.8 1202	0.04 0.6	665 18671	22.6	8.008	8.902	4,927	7.68		
W3A	-8.53	3/18/03	1020			3.26 101	87.5 1226	0.06 0.8	663 18623	22.7	8.020	8.773	4,856	7.77		
W3A	-8.53	4/29/03	1015			3.34 103	90.8 1271	0.54 7.6	681 19115	22.6	8.048	8.325	4,608	7.84		
W3A	-8.53	5/13/03	1042			3.33 103	85.9 1203	0.44 6.2	674 18935	22.4	8.061	8.242	4,562	7.89		
W3A	-8.53	6/5/03	1010			3.39 105	87.9 1231	0.36 5.0	666 18697	22.7	8.065	8.482	4,695	7.80		
W3A	-8.53	7/31/03	1030			3.24 100	99.2 1389	0.45 6.3	672 18873	22.4	8.020	8.650	4,788	8.01		
W3A	-8.53	8/27/03	1059			3.30 102	94.3 1321	0.14 2.0	671 18857	22.6	8.027	8.520	4,716	7.95		
W3A	-8.53	9/17/03	1025			3.26 101	89.2 1249	0.49 6.9	652 18298	NA	7.982	9.524	5,272	7.66		
W3A	-8.53	10/7/03	1016			3.34 103	102 1423	0.99 13.9	673 18913	23.1	8.009	8.252	4,568	NA		
W3A	-8.53	11/4/03	957			3.30 102	99.5 1394	0.10 1.4	686 19278	22.9	8.037	8.395	4,647			
W3A	-8.53	11/14/03	1132							23.0				7.57		
W3A	-8.53	12/16/03	954			3.19 99	89.6 1255	0.50 7.0	664 18646	22.8	7.987	9.476	5,245	7.43		
W3A	-8.53	1/27/04	1015			3.14 97	90.6 1270	1.22 17.1	654 18368	22.9	8.038	8.421	4,661	7.50		
W3A	-8.53	2/10/04	1012			3.08 95	86.8 1216	0.45 6.3	624 17514	22.9	7.988	8.656	4,791	7.61		
W3A	-8.53	3/15/04	1026			2.89 90	79.4 1112	0.09 1.3	632 17753	22.7	8.063	6.741	3,731	7.31		

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 12/31/2005

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)
W3A	-8.53	4/21/04	927			3.06 95	89.8 1258	0.72 10.1	658 18475	22.5	8.025	7.785	4,309	7.79		
W3A	-8.53	5/12/04	922			3.00 93	91.8 1286	0.07 1.0	655 18382	22.7	8.042	7.78	4,306	8.03		
W3A	-8.53	6/7/04	957			3.18 98	87.2 1221	0.29 4.1	644 18098	22.6	8.038	7.75	4,290	7.86		
W3A	-8.53	7/8/04	1027			3.06 95	91.0 1275	0.20 2.8	663 18629	22.8	8.096	8.13	4,500	7.67		
W3A	-8.53	8/24/04	1010			3.06 95	93.2 1306	0.08 1.1	646 18146	22.3	8.022	8.23	4,556	7.53		
W3A	-8.53	9/28/04	1020			3.12 97	104 1461	0.20 2.8	668 18764	22.8	8.016	7.84	4,340	7.69		
W3A	-8.53	10/5/04	1109			3.10 96	99.8 1398	0.15 2.1	653 18351	22.8	8.018	8.50	4,705	7.50		
W3A	-8.53	11/8/04	951			3.16 98	91.9 1287	0.22 3.1	664 18635	23.0	8.041	8.03	4,445	7.69		
W3A	-8.53	12/7/04	1002			3.12 97	99.2 1389	0.24 3.4	662 18604	22.9	8.065	7.97	4,412	7.58		
W3A	-8.53	1/11/05	950			3.02 94	87.3 1223	0.07 1.0	675 18963	23.1	8.099	8.068	4,466	7.56		
W3A	-8.53	2/8/05	1000			2.92 90	91.3 1278	0.09 1.3	642 18034	22.9	8.101	7.239	4,007	7.73		
W3A	-8.53	3/16/05	1040			3.02 94	99.5 1394	0.16 2.2	636 17860	22.8	8.075	7.490	4,146	7.75		
W3A	-8.53	4/18/05	1049			3.20 99	95.7 1340	0.16 2.2	671 18840	23.0	8.075	7.696	4,260	7.22		
W3A	-8.53	5/24/05	958			3.18 98	105 1471	0.21 2.9	665 18680	23.0	8.011	8.105	4,486	7.66		
W3A	-8.53	6/13/05	1019			3.20 99	92.5 1295	0.35 4.9	663 18621	23.0	8.033	8.219	4,549	7.74		
W3A	-8.53	7/11/05	1020			3.38 105	88.1 1234	0.17 2.4	665 18666	22.6	8.038	7.833	4,336	7.74		
W3A	-8.53	8/10/05	935			3.26 101	86.1 1206	0.18 2.5	662 18590	23.1	8.045	8.094	4,480	7.60		
W3A	-8.53	9/21/05	938			3.26 101	95.3 1335	0.07 1.0	662 18590	23.0	8.039	8.392	4,645	7.61		
W3A	-8.53	10/18/05	956			3.42 106	96.9 1357	0.18 2.5	659 18514	23.1	8.027	8.219	4,549	7.58		
W3A	-8.53	11/3/05	945			3.32 103	95.6 1340	0.16 2.2	674 18921	22.9	8.035	8.622	4,773	7.48		
W3A	-8.53	12/21/05	1035			3.14 97	81.5 1142	0.11 1.5	657 18444	22.7	8.036	9.422	5,215	8.15		
W3A	-8.53	1/24/06	932			3.28 102	94.4 1323	0.15 2.1	676 18994	22.7	8.028	8.528	4,720	7.66		
W3A	-8.53	2/15/06	941			3.25 101	91.5 1282	0.13 1.8	658 18483	22.7	8.024	9.242	5,116	7.47		
W3A	-8.53	3/21/06	923			3.25 101	93.4 1308	0.11 1.5	671 18845	22.5	8.036	8.657	4,792	7.67		
W3A	-8.53	4/26/06	938			3.45 107	90.9 1273	<0.05 0.0	660 18536	22.2	8.03	8.441	4,672	7.65		
W3A	-8.53	5/23/06	1016			3.04 94	89.6 1255	<0.05 0.0	668 18761	22.4	8.025	8.753	4,845	7.66		
W3A	-8.53	6/27/06	1020			3.39 105	92.6 1297	0.19 2.7	675 18958	22.4	8.013	8.857	4,903	7.71		
W3A	-8.53	7/18/06	1015			3.17 98	85.5 1198	0.16 2.2	655 18396	22.8	7.998	9.158	5,069	7.99		
W3A	-8.53	8/8/06	944			3.26 101	92.5 1296	0.15 2.1	662 18593	22.5	7.995	8.596	4,758	7.99		
W3A	-8.53	9/19/06	1041			3.27 101	89.5 1254	0.26 3.6	669 18789	22.8	7.983	8.551	4,733	7.84		
W3A	-8.53	10/24/06	1020			3.07 95	85.9 1203	0.33 4.6	662 18593	22.7	8.029	8.877	4,914	7.94		
W3A	-8.53	11/28/06	959			3.20 99	86.6 1213	0.20 2.8	649 18227	22.7	8.000	8.093	4,480	7.67		
W3A	-8.53	12/12/06	951			3.12 97	85.9 1203	0.15 2.1	649 18227	22.8	7.989	9.120	5,048	7.69		
W3A	-8.53	1/9/07	1019			3.23 100	86.4 1210	0.37 5.2	655 18396	22.6	8.013	9.111	5,043	7.73		

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 12/31/2005

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)				
W3A	-8.53	2/22/07	1005			3.13	97	92.7	1298	0.33	4.6	669	18789	22.8	7.994	8.994	4,978	7.77		
W3A	-8.53	3/6/07	1030			3.12	97	93.3	1307	0.19	2.7	661	18565	22.9	8.029	8.682	4,806	7.84		
W3A	-8.53	4/11/07	1152			3.30	102	87.9	1231	0.13	1.8	664	18649	23.0	8.032	8.629	4,776	7.57		
W3A	-8.53	5/3/07	1005			3.28	102	92.4	1294	0.23	3.2	678	19042	22.7	8.048	8.567	4,742	7.60		
W3A	-8.53	6/19/07	940			3.22	100	91.6	1283	0.16	2.2	663	18621	22.8	8.053	8.846	4,896	8.06		
W3A	-8.53	7/26/07	1050	-5.89	0.37 Flood	3.02	94	98.7	1382	0.04	0.5	653	18340	22.5	7.95	8.51	4,711	7.34		
W3A	-8.53	8/28/07	1031	-5.97	0.00 Low	3.85	119	107.3	1503	0.71	9.9	935	26257	22.6	7.90	8.16	4,517	7.45		
W3A	-8.53	9/13/07	1228	-6.10	0.15 Low	3.86	119	100.5	1408	1.54	21.6	738	20736	22.9	8.00	8.39	4,644	7.23		
W3A	-8.53	10/24/07	1152	-3.79	0.30 Flood	3.52	109	107.0	1499	0.56	7.9	655	18399	23.1	7.98	8.26	4,572	7.04		
W3A	-8.53	11/26/07	1458	-3.91	0.09 Flood	3.52	109	100.0	1401	1.29	18.1	705	19808	22.8	7.98	8.63	4,777	7.00		
W3A	-8.53	12/20/07	1129	-5.94	0.23 High	2.64	82	82.2	1152	0.56	7.8	463	13012	22.5	8.08	6.75	3,736	7.36		
W3A	-8.53	1/28/08	1455	-5.41	0.06 Low	2.06	64	46.7	654	1.46	20.4	330	9264	23.0	7.89	8.15	4,511	6.55		
W3A	-8.53	2/27/08	1221	-5.33	0.06 Low	3.40	105	97.8	1369	0.84	11.7	633	17778	22.8	7.89	8.32	4,605	7.45		
W3A	-8.53	3/20/08	1231	-6.02	0.12 Flood	3.16	98	100.6	1410	0.84	11.8	480	13482	22.8	7.96	8.26	4,572	6.93		
W3A	-8.53	4/28/08	1203	-5.92	0.18 High	3.14	97	101.6	1424	0.19	2.6	644	18096	22.7	7.95	8.22	4,550	6.74		
W3A	-8.53	5/29/08	1023		0.30 Flood	2.91	90	102.0	1429	0.16	2.3	640	17981	23.1	7.96	8.19	4,533	7.18		
W3A	-8.53	6/19/08	1101	-5.31	0.21 Ebb	2.85	88	98.9	1386	0.68	9.5	656	18413	23.0	7.85	8.35	4,622	6.96	5.19	
W3A	-8.53	7/24/08	1022	-5.61	0.46 Ebb	2.96	92	124.2	1740	0.56	7.8	654	18356	22.8	7.88	8.14	4,506	7.45		
W3A	-8.53	8/30/08	1059		0.06 Flood	2.78	86	98.3	1377	0.42	5.9	620	17425	22.7	7.97	8.45	4,677	7.36		
W3A	-8.53	9/18/08	949	-5.53	0.34 Ebb	1.41	44	39.9	560	1.11	15.6	444	12459	23.4	7.89	8.23	4,556	6.76	3.34	
W3A	-8.53	10/18/08	910	-5.79	0.24 Ebb	3.39	105	104.2	1459	0.99	13.8	632	17744	24.1	7.72	8.06	4,461	7.25	11.7	
W3A	-8.53	11/13/08	952	-5.76	0.15 Ebb	2.91	90	97.7	1368	0.20	2.8	536	15063	24.8	7.97	8.13	4,500	7.57	8.41	
W3A	-8.53	12/15/08	1037	-5.66	0.37 Ebb	3.60	112	105.5	1478	0.11	1.5	628	17644	24.4	8.13	8.03	4,445	7.63		
W3A	-8.53	1/21/09	946	-5.93	0.12 Low	2.77	86	99.3	1390	0.30	4.2	591	16588	23.8	8.15	7.79	4,312	7.43	8.27	
W3A	-8.53	2/23/09	1528	-5.80	0.37 High	3.04	94	96.4	1351	1.25	17.5	613	17209	24.6	7.94	8.40	4,650	7.44	0.88	
W3A	-8.53	3/16/09	823	-5.88	0.18 High	3.34	104	86.6	1213	0.19	2.6	515	14478	23.6	7.97	8.75	4,843	7.44	3.14	
W3A	-8.53	4/20/09	1459	-5.75	0.40 Ebb	4.04	125	93.6	1311	0.89	12.5	513	14412	24.3	7.87	8.54	4,727	7.84	20.20	
W3A	-8.53	5/27/09	744	-5.86	0.15 High	3.63	112	92.8	1301	0.41	5.8	674	18919	22.4	8.05	8.69	4,810	6.84	0.49	
W3A	-8.53	6/18/09	1029	-5.79	0.37 Flood	3.69	114	95.3	1335	0.64	8.9	471	13221	22.6	8.05	8.10	4,484	8.23	0.21	
W3A	-8.53	7/14/09	836	-5.79	0.37 Flood	2.66	83	70.0	981	0.21	2.9	361	10147	22.5	8.11	8.65	4,788	7.29	0.10	
W3A	-8.53	8/19/09	857	-5.96	0.03 Low	3.42	106	101.3	1420	0.27	3.8	535	15040	22.9	7.94	7.97	4,412	7.53	0.34	
W3A	-8.53	9/22/09	912	-5.60	0.46 Ebb	3.24	100	98.5	1379	0.30	4.2	262	7366	23.3	8.27	8.59	4,755	7.75	0.12	
W3A	-8.53	10/22/09	1338	-5.94	0.18 Ebb	1.80	56	45.6	639	0.16	2.3	288	8096	23.3	8.09	8.64	4,782	7.74	0.24	
W3A	-8.53	11/16/09	1443	-5.93	0.21 High	3.49	108	99.3	1391	0.80	11.2	621	17441	23.3	8.05	8.81	4,877	7.19	0.08	

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 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)
W3A	-8.53	12/7/09	1415	-5.97	0.09 Ebb	3.23 100	100.5 1407	0.30 4.2	614 17238	23.7	7.99	8.90	4,926	7.24	0.21	
W3A	-8.53	1/5/10	1132	-5.71	0.21 Ebb	3.42 106	92.6 1297	0.93 13.0	539 15146	23.4	8.05	9.00	4,982	7.82	0.50	
W3A	-8.53	2/1/10	1207	-5.89	-0.09 Low	3.26 101	102.4 1434	0.57 8.0	482 13541	23.4	8.08	8.63	4,777	7.41	0.92	
W3A	-8.53	3/9/10	1152	-5.94	0.15 High	3.55 110	95.3 1335	0.21 3.0	596 16740	22.7	8.04	8.75	4,843	7.49	0.60	
W3A	-8.53	4/6/10	1057	-5.95	0.15 High	3.42 106	94.2 1319	0.07 1.0	615 17270	22.4	8.04	8.95	4,954	8.03	0.32	
W3A	-8.53	5/11/10	1117	-5.93	0.21 Flood	3.49 108	83.2 1165	2.50 35.0	518 14562	22.9	8.06	8.15	4,511	8.06	0.35	
W3A	-8.53	6/15/10	1206	-6.08	0.06 Low	3.55 110	91.0 1275	0.43 6.0	630 17692	22.6	8.10	8.46	4,683	7.83	0.10	
W3A	-8.53	7/13/10	1118	-6.01	0.00 Low	3.36 104	93.5 1309	0.93 13.0	680 19110	22.6	8.04	8.66	4,794	7.59	0.32	
W3A	-8.53	8/3/10	1128	-5.54	0.55 High	3.81 118	98.7 1383	0.50 7.0	683 19188	22.7	8.10	8.10	4,484	7.64	0.25	
W3A	-8.53	9/14/10	1120	-5.52	0.52 Ebb	3.71 115	97.5 1366	0.44 6.2	718 20169	22.6	8.05	8.32	4,605	7.81	0.29	
W3A	-8.53	10/12/10	1132	-5.55	0.46 Ebb	3.49 108	95.5 1337	0.23 3.2	722 20287	22.8	8.06	8.46	4,683	8.06	17.70	
W3A	-8.53	11/16/10	1044	-5.69	0.34 Flood	3.65 113	103.3 1447	1.14 15.9	723 20300	22.8	8.03	8.03	4,445	7.97	0.11	
W3A	-8.53	12/14/10	1124	-5.67	0.34 Ebb	3.55 110	100.6 1409	0.36 5.0	686 19275	22.8	8.05	8.15	4,511	7.58	0.98	
W3A	-8.53	1/4/11	1113	-5.87	0.03 Low	3.52 109	97.0 1359	0.32 4.5	681 19134	22.8	8.00	8.12	4,495	7.60	0.16	
W3A	-8.53	4/5/11	1138	-6.01	-0.03 Low	3.49 108	92.0 1289	0.30 4.2	675 18961	22.8	8.04	7.98	4,417	6.71	0.82	
W3A	-8.53	7/12/11	1110	-5.93	0.30 Flood	3.65 113	95.0 1330	0.29 4.1	679 19074	22.7	8.02	8.59	4,755	7.36	0.13	
W3A	-8.53	10/11/11	1129	-5.88	0.15 Flood	3.49 108	93.7 1313	0.29 4.0	661 18572	23.0	7.97	8.19	4,533	7.84	0.20	
W3A	-8.53	1/10/12	1127	-5.95	0.03 Ebb	3.23 100	91.2 1278	0.51 7.2	641 18012	23.0	8.02	8.80	4,871	6.86	0.19	
W3A	-8.53	5/1/12	1142	-5.74	0.34 Flood	3.84 119	99.0 1387	0.24 3.4	721 20247	22.5	7.98	8.19	4,533	7.80	0.35	
W3A	-8.53	7/18/12	1038	-6.02	0.03 Flood	3.68 114	101.6 1423	0.62 8.7	657 18459	22.7	8.05	8.46	4,683	7.93	0.10	
W3A	-8.53	10/16/12	1122	-5.90	0.09 Low	3.65 113	98.9 1385	0.54 7.6	666 18706	22.8	7.95	8.53	4,722	7.54	4.41	
W3A	-8.53	1/8/13	1146	-6.03	0.18 Flood	3.84 119	101.5 1422	0.46 6.4	707 19861	23.0	7.93	8.50	4,705	7.41	0.19	
W3A	-8.53	4/9/13	1141	-6.03	0.00 Flood	3.78 117	92.2 1292	0.83 11.6	693 19469	22.5	8.02	8.91	4,932	6.46	8.80	
W3A	-8.53	7/17/13	1231	-5.68	0.61 High	3.55 110	97.5 1366	0.49 6.9	640 17983	22.9	7.92	8.52	4,716	6.65	0.06	
W3A	-8.53	10/15/13	1118	-5.80	0.37 Flood	3.42 106	96.9 1357	0.71 9.9	628 17645	23.5	7.95	8.57	4,744	7.65	2.45	
W3A	-8.53	1/15/14	1110	-5.92	0.03 Low	3.75 116	93.3 1307	0.49 6.9	628 17650	23.4	8.02	8.43	4,666	8.07	0.13	
W3A	-8.53	4/29/14	1210	-6.07	0.12 Flood	3.39 105	92.4 1294	0.56 7.8	646 18135	23.4	7.93	8.38	4,639	7.76	0.64	
W3A	-8.53	7/29/14	1150	-5.95	0.12 Low	3.62 112	94.5 1323	0.43 6.0	663 18610	23.2	7.90	8.52	4,716	7.76	9.48	
W3A	-8.53	11/5/14	1143	-5.77	0.17 Flood	3.75 116	103.5 1449	0.49 6.9	655 18398	23.6	8.03	7.73	4,279	8.20	0.15	
W3A	-8.53	2/11/15	1052	-5.74	0.18 Ebb	4.54 141	103.5 1449	1.33 18.6	739 20760	23.3	8.02	8.15	4,511	7.78	0.09	
W3A	-8.53	5/20/15	1218	-6.01	0.00 Flood	3.99 124	95.0 1330	0.41 5.7	594 16681	23.3	8.08	8.44	4,672	7.70	0.20	
W3A	-8.53	7/22/15	959	-5.77	0.34 Ebb	3.84 119	86.8 1216	0.16 2.2	614 17250	23.6	7.96	8.77	4,854	7.70	0.15	
W3A	-8.53	11/9/15	1509	-5.58	0.40 Ebb	4.34 135	116.2 1628	0.07 1.0	993 27893	23.7	8.03	7.47	4,135	8.32	0.40	
W3A	-8.53	1/27/16	1311	-5.98	0.08 Low	4.16 129	111.0 1555	0.21 3.0	630 17704	23.6	8.03	8.54	4,727	7.45	0.31	

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 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)
W3A	-8.53	4/22/16	1022	-5.93	-0.05 Low	3.81 118	93.0 1302	0.44 6.2	603 16947	23.3	7.98	7.96	4,406	7.69	0.31	
W3A	-8.53	7/27/16	953	-5.73	0.20 Flood	3.72 115	95.9 1344	0.13 1.8	518 14559	23.3	8.08	8.46	4,683	7.33	0.02	
W3A	-8.53	11/10/16	1026	-5.73	0.50 Flood	3.82 118	96.4 1350	0.04 0.5	542 15220	23.8	8.04	7.95	4,401	7.37	0.23	
W3A	-8.53	3/22/17	1323	-5.69	0.25 High	4.07 126	97.3 1364	0.22 3.1	645 18127	23.8	8.09	7.75	4,290	7.50	0.07	
W3A	-8.53	4/19/17	1212	-5.77	0.17 Ebb	3.71 115	102.1 1430	0.29 4.0	683 19178	23.9	8.01	7.93	4,389	6.09	0.34	
W3A	-8.53	8/8/17	1022	-5.86	-0.04 Low	3.71 115	82.6 1157	0.06 0.9	671 18852	23.5	7.99	8.09	4,478	6.58	0.12	
W3A	-8.53	10/18/17	1246	-5.75	0.50 Flood	3.63 112	94.9 1330	0.28 3.9	593 16668	24.0	8.03	7.54	4,174	6.96	0.04	
W3A	-8.53	1/18/18	1008	-5.68	0.15 Ebb	3.46 107	99.9 1400	0.18 2.5	637 17890	23.5	7.97	8.15	4,511	7.32	0.04	
W3A	-8.53	5/10/18	1018	-5.89	0.25 Flood	3.50 109	102.5 1435	0.11 1.5	663 18633	22.4	8.01	8.93	4,943	7.67	0.13	
W3A	-8.53	8/13/18	1550	-5.68	0.46 Flood	3.84 119	99.5 1394	0.16 2.2	812 22810	24.2	7.96	8.41	4,655	7.20	0.06	
W3A	-8.53	10/25/18	1047	-5.76	0.12 Low	3.42 106	92.9 1301	0.01 0.1	568 15962	24.1	8.04	7.34	4,063	8.14	0.12	
W3A	-8.53	2/8/19	945	-5.72	0.20 Ebb	3.85 119	131.3 1839	0.06 0.9	646 18155	23.5	7.87	8.57	4,744	7.52	0.07	
W3A	-8.53	5/15/19	1430	-5.64	0.52 High	3.92 121	98.7 1383	0.01 0.1	599 16827	23.1	7.94	7.79	4,312	7.97	0.04	
W3A	-8.53	8/28/19	1401	-5.47	0.70 High	4.06 126	94.1 1318	0.14 2.0	592 16639	23.7	7.97	8.09	4,478	7.78	0.16	
W3A	-8.53	10/11/19	957	-5.80	0.15 Flood	3.98 123	87.5 1225	0.16 2.3	586 16444	23.9	8.04	8.16	4,517	8.22	0.07	
W3A	-8.53	2/4/20	1056	-5.82	0.25 High	4.32 134	115.3 1614	0.04 0.6	648 18190	23.5	7.99	8.40	4,650	7.36	0.10	
W3A	-8.53	6/3/20	1128	-5.72	0.35 Flood	3.41 106	95.8 1342	0.22 3.1	609 17112	23.9	7.94	7.90	4,373	8.06	0.60	
W3A	-8.53	8/18/20	1420	-5.48	0.60 Flood	2.47 76	108.0 1512	-0.13 -1.8	636 17868	23.5	8.02	8.00	4,428	7.59	0.20	
W3A	-8.53	12/10/20	941	-5.67	0.40 Flood	3.87 120	102.3 1433	0.10 1.4	615 17274	23.6	7.97	8.18	4,528	7.91	0.13	
W3A	-8.53	2/18/21	951	-5.67	0.25 Ebb	3.67 114	105.6 1479	0.11 1.6	611 17166	23.4	7.94	8.24	4,561	7.94	0.07	
W3A	-8.53	4/15/21	952	-5.88	-0.02 Low	3.37 104	95.3 1335	0.16 2.3	612 17178	23.3	7.87	8.12	4,495	7.82	0.08	
W3A	-8.53	7/6/21	1007	-5.98	0.20 Flood	3.64 113	109.3 1530	0.09 1.2	625 17560	23.6	7.88	8.68	4,805	7.79	0.10	
W3A	-8.53	11/8/21	1038	-5.58	0.35 Ebb	3.58 111	99.9 1399	0.14 1.9	643 18048	23.8	7.87	8.76	4,849	7.77	0.19	
W3A	-8.53	2/8/22	1002	-5.74	0.25 Ebb	3.55 110	119.0 1667	0.08 1.1	711 19980	23.1	7.93	8.50	4,705	7.89	0.16	
W3A	-8.53	4/21/22	1003	-5.96	0.08 Ebb	3.08 95	92.3 1293	0.04 0.5	614 17233	23.0	7.88	9.20	5,092	7.74	0.13	
W3A	-8.53	7/12/22	1125	-6.01	0.30 Flood	3.58 111	109.6 1535	-0.33 -4.6	684 19208	23.2	7.92	8.29	4,589	7.91	0.09	
W3A	-8.53	11/21/22	1200	-5.78	0.40 High	3.46 107	109.6 1536	0.01 0.1	633 17785	23.5	8.02	7.88	4,362	7.97	1.67	
W3A	-8.53	1/25/23	1417	-5.98	0.10 Flood	3.16 98	102.7 1438	-0.01 -0.1	599 16818	23.4	7.92	8.44	4,672	7.82	0.11	
W3A	-8.53	4/25/23	1013	-5.99	0.03 Low	3.85 119	109.8 1538	0.05 0.7	632 17752	22.9	7.93	8.29	4,589	7.90	0.14	
W3A	-8.53	8/14/23	1047	-5.89	0.20 Flood	1.47 46	30.0 420	0.04 0.6	341 9570	23.3	7.95	7.98	4,417	7.95	0.33	
W3A	-8.53	11/16/23	945	-5.45	0.40 Low	2.92 90	104.6 1465	0.14 2.0	620 17416	23.4	7.95	7.77	4,301	7.98	0.09	170.5
W3A	-8.53	1/23/24	1503	-5.74	0.80 High	2.83 88	108.3 1517	0.01 0.2	646 18137	23.0	7.94	7.86	4,351	7.91	0.08	150.1
W3A	-8.53	5/3/24	1201	-5.73	0.37 High	3.30 102	113.5 1589	-0.06 -0.8	622 17477	23.0	7.96	8.12	4,495	7.93	0.33	179.7
W3A	-8.53	7/31/24	1019	-5.75	0.35 Flood	3.34 103	113.1 1584	0.00 0.0	635 17828	23.2	7.96	8.05	4,456	8.07	0.06	147.8

NELHA Water Quality Laboratory

Well 3A Data Table

6/27/1990 - 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)
W3A	-8.53	12/10/24	1340	-5.63	0.30 Ebb	3.44 106	116.5 1631	0.16 2.3	607 17034	23.4	7.96	8.32	4,605	8.03	0.07	212.2
W3A	-8.53	1/9/25	1207	-5.71	0.30 High	3.58 111	123.8 1734	0.40 5.6	604 16972	23.2	7.98	8.25	4,567	8.09	0.14	169.5
W3A	-8.53	5/13/25	1504	-5.57	0.00 Flood	3.38 105	120.0 1680	0.05 0.7	593 16655	23.9	7.99	8.03	4,445	8.14	0.23	189.2
W3A	-8.53	7/29/25	1141	-5.64	0.14 Low	3.46 107	122.3 1712	0.11 1.6	602 16920	23.3	7.96	7.83	4,334	8.12	0.09	169.5
W3A	-8.53	12/17/25	1155	-5.75	0.30 High	4.39 136	122.4 1714	0.00 0.0	1549 43511	23.3	7.97	8.06	4,461	8.09	0.10	226.5
Mean				-5.75	0.23	3.26 101	86.9 1217	0.29 4.1	652 18310	22.7	8.00	8.95	4,947	7.50	1.38	179.4
Std. Dev.				0.32	0.18	0.40 12.4	14.9 209	0.37 5.2	88 2476	0.6	0.06	1.56	858	0.49	3.52	26.3
Maximum				-3.79	0.80	4.82 149	131 1839	2.94 41.2	1549 43511	24.8	8.27	17.75	9,822	8.77	20.20	226.5
Minimum				-6.10	-0.09	1.41 44	30 420	-0.33 -4.6	262 7366	19.4	7.72	6.74	3,731	5.19	0.02	147.8
n				100	102	309 309	309 309	306 309	302 301	308	306	308	308	305	88	9