

NELHA Water Quality Laboratory

Well 7 Data Table

5/20/1992 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)
W7	-17.68	5/20/92	834			0.80 25	54.7 766	1.34 18.8	161 4522	16.6	7.877	30.780	17038	9.30		
W7	-17.68	6/24/92	839			1.70 53	50.5 707	1.22 17.1	129 3623	16.6	7.785	30.960	17137	8.81		
W7	-17.68	7/30/92	803			2.52 78	35.7 500	1.56 21.9	154 4325	18.5	7.711	31.458	17413	5.74		
W7	-17.68	8/26/92	1006			3.14 97	57.8 810	0.21 2.9	161 4522	18.6	7.719	31.471	17420	5.48		
W7	-17.68	9/23/92	827			2.83 88	44.0 616	0.39 5.5	164 4606	17.9	7.788	31.091	17210	5.45		
W7	-17.68	10/28/92	902			2.80 87	56.0 784	0.28 3.9	155 4353	17.2	7.818	30.660	16971	5.32		
W7	-17.68	11/18/92	852			2.75 85	55.5 777	0.25 3.5	152 4269	16.9	7.803	30.512	16889	5.14		
W7	-17.68	12/9/92	843			2.70 84	57.5 805	0.24 3.4	187 5252	17.0	7.806	30.441	16850	5.13		
W7	-17.68	1/27/93	822			2.59 80	30.9 433	0.24 3.4	161 4513	20.7	7.944	32.034	17732	5.86		
W7	-17.68	2/24/93	807			1.98 61	14.2 199	0.36 5.0	147 4129	21.9	8.071	32.956	18242	5.63		
W7	-17.68	3/17/93	816			2.15 67	20.1 282	0.38 5.3	142 3999	21.7	8.051	32.633	18063	4.62		
W7	-17.68	4/28/93	808			2.28 71	31.7 444	0.32 4.5	131 3679	18.7	8.007	31.256	17301	3.71		
W7	-17.68	5/26/93	810			2.02 63	29.4 412	0.43 6.0	260 7302	17.9	7.984	31.237	17290	3.07		
W7	-17.68	6/29/93	823			2.18 68	28.6 400	0.24 3.4	112 3146	18.5	7.945	31.478	17424	3.70		
W7	-17.68	9/1/93	823			2.16 67	31.3 438	0.24 3.4	153 4283	19.1	7.929	31.072	17199	2.87		
W7	-17.68	10/27/93	816			2.15 67	30.1 421	0.18 2.5	140 3932	19.4	7.943	30.978	17147	2.14		
W7	-17.68	3/1/94	1035			2.52 78	19.1 268	0.34 4.8	132 3707	21.2	7.929	31.763	17582	3.68		
W7	-17.68	6/22/94	754			2.30 71	31.0 435	0.29 4.1	126 3552	19.0	7.918	31.095	17212	1.97		
W7	-17.68	8/24/94	816			2.09 65	32.0 448	0.00 0.0	121 3387	19.2	7.949	30.888	17097	2.34		
W7	-17.68	11/28/94	1010			2.19 68	29.5 414	0.59 8.3	120 3374	19.9	7.820	31.019	17170	2.11		
W7	-17.68	1/25/95	851			2.20 68	29.7 416	0.00 0.0	115 3216	19.3	7.966	30.843	17072	2.71		
W7	-17.68	2/15/94	905			2.05 63	16.8 235	0.00 0.0	121 3393	22.2	8.034	32.241	17846	4.68		
W7	-17.68	3/29/95	846			2.01 62	31.1 436	0.27 3.8	118 3300	20.0	8.030	30.937	17124	1.98		
W7	-17.68	4/26/95	839			1.93 60	32.9 461	0.12 1.7	111 3109	19.4	8.003	30.836	17069	1.74		
W7	-17.68	5/9/95	1023			1.96 61	34.4 482	0.29 4.1	116 3266	19.4	7.961	30.787	17041	1.60		
W7	-17.68	6/28/95	837			2.04 63	34.0 476	0.49 6.9	121 3401	19.6	7.937	30.988	17153	1.67		
W7	-17.68	7/26/95	1017			2.15 67	34.0 476	0.22 3.1	121 3387	19.7	7.973	31.382	17371	1.59		
W7	-17.68	8/23/95	934			2.10 65	27.9 390	0.50 7.0	121 3396	20.1	7.957	30.946	17129	2.10		
W7	-17.68	9/12/95	925			2.16 67	27.2 381	0.13 1.8	129 3620	20.2	7.970	31.292	17321	1.61		
W7	-17.68	10/17/95	1108			2.07 64	25.2 353	0.21 2.9	132 3699	19.9	7.975	31.567	17473	1.54		
W7	-17.68	11/7/95	951			2.04 63	26.6 372	0.44 6.2	128 3592	23.1	8.002	31.486	17428	1.50		
W7	-17.68	12/6/95	1038			1.86 58	25.8 362	0.37 5.2	121 3398	20.2	8.018	31.478	17424	1.78		
W7	-17.68	1/30/96	1130			1.65 51	16.4 230	0.13 1.8	118 3311	23.1	8.133	32.561	18023	3.85		
W7	-17.68	2/27/96	1240			1.66 51	15.8 221	0.29 4.1	121 3396	23.8	8.089	32.679	18089	4.13		
W7	-17.68	3/13/96	1154			1.58 49	18.4 258	0.46 6.4	109 3073	23.4	8.049	32.184	17815	4.92		

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Well 7 Data Table

5/29/1992 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)
W7	-17.68	4/2/96	1038			1.55 48	20.3 284	0.22 3.1	127 3567	23.4	8.041	31.959	17690	5.47		
W7	-17.68	5/15/96	1206			1.70 53	36.0 504	0.05 0.7	120 3380	22.6	8.056	31.501	17437	2.49		
W7	-17.68	6/18/96	1141			1.59 49	47.6 666	0.12 1.7	106 2981	20.6	8.059	30.850	17076	2.95		
W7	-17.68	7/17/96	1200			1.53 47	47.5 665	0.22 3.1	102 2857	20.3	8.055	30.570	16921	3.13		
W7	-17.68	8/6/96	1216			1.39 43	49.7 696	0.58 8.1	103 2880	20.4	8.032	30.425	16841	3.23		
W7	-17.68	9/4/96	1202			1.51 47	55.9 783	0.48 6.7	106 2989	20.2	8.003	30.355	16802	2.69		
W7	-17.68	10/9/96	1256			1.79 55	45.3 635	0.49 6.9	125 3508	20.9	7.957	30.756	17024	2.60		
W7	-17.68	11/6/96	1201			1.96 61	34.9 489	0.19 2.7	120 3378	21.3	7.908	31.067	17196	1.87		
W7	-17.68	12/17/96	1243			1.89 59	22.4 313	0.29 4.1	126 3535	24.2	8.076	31.910	17663	5.63		
W7	-17.68	1/14/97	1215			2.00 62	30.0 420	0.69 9.7	136 3820	23.5	7.973	31.491	17431	4.06		
W7	-17.68	2/11/97	1050			1.65 51	40.5 567	0.24 3.4	126 3550	23.9	8.037	31.752	17576	5.39		
W7	-17.68	3/11/97	928			1.76 55	37.8 529	0.44 6.2	131 3690	23.5	8.067	31.957	17689	4.40		
W7	-17.68	4/23/97	1209			1.95 60	94.2 1320	0.46 6.4	115 3219	21.3	8.031	30.787	17041	2.25		
W7	-17.68	5/28/97	1040			2.36 73	94.8 1328	0.13 1.8	128 3595	20.4	8.013	30.900	17104	1.79		
W7	-17.68	6/17/97	1121			2.27 70	72.1 1010	0.29 4.1	119 3351	20.1	8.024	30.878	17092	1.77		
W7	-17.68	7/15/97	1115			2.56 79	83.7 1172	0.06 0.8	114 3210	19.7	8.037	30.686	16985	1.87		
W7	-17.68	8/26/97	1147			2.50 77	89.2 1249	0.35 4.9	127 3561	21.4	8.102	30.724	17007	1.01		
W7	-17.68	9/23/97	1015			2.55 79	147.5 2066	0.25 3.5	123 3449	21.1	8.121	30.792	17044	0.47		
W7	-17.68	10/14/97	1050			2.68 83	186.4 2611	0.21 2.9	120 3370	21.0	8.130	30.728	17009	0.69		
W7	-17.68	11/4/97	919			2.58 80	195.5 2738	0.10 1.4	125 3513	20.1	8.146	30.896	17102	0.90		
W7	-17.68	12/16/97	1120			2.64 82	71.5 1001	0.15 2.1	132 3699	21.3	8.105	31.156	17246	1.62		
W7	-17.68	1/5/98	942			2.73 85	56.2 787	0.03 0.4	124 3469	21.7	8.091	31.466	17417	2.63		
W7	-17.68	2/3/98	911			2.15 67	22.4 314	0.08 1.1	118 3306	23.7	8.202	32.728	18116	5.38		
W7	-17.68	3/10/98	942			2.50 77	25.5 357	0.27 3.8	128 3598	23.6	8.006	32.592	18041	4.94		
W7	-17.68	4/14/98	1113			2.55 79	32.2 451	0.01 0.1	126 3536	23.5	8.010	32.481	17979	4.71		
W7	-17.68	5/12/98	942			2.39 74	51.7 725	0.09 1.3	123 3440	23.4	8.031	32.514	17997	3.39		
W7	-17.68	6/2/98	943			2.39 74	93.0 1303	0.09 1.3	119 3332	22.5	8.036	31.925	17671	1.02		
W7	-17.68	7/14/98	935			2.31 72	96.2 1348	0.23 3.2	120 3373	21.4	7.974	31.463	17416	0.11		
W7	-17.68	8/11/98	958			2.62 81	103.1 1444	0.05 0.7	118 3323	21.1	7.924	31.501	17437	0.16		
W7	-17.68	9/15/98	949			2.71 84	73.5 1030	0.01 0.1	123 3463	21.1	7.888	31.555	17467	1.70		
W7	-17.68	10/13/98	849			2.87 89	67.7 948	0.05 0.7	128 3601	21.3	7.887	31.487	17429	1.75		
W7	-17.68	11/4/98	942			2.92 90	69.3 970	0.07 1.0	128 3603	21.2	7.886	31.461	17414	1.21		
W7	-17.68	12/16/98	932			3.05 94	104.4 1462	0.09 1.3	131 3674	21.5	7.866	31.575	17478	0.30		
W7	-17.68	1/12/99	1003			2.85 88	78.6 1101	0.08 1.1	133 3724	21.7	7.854	31.853	17631	1.88		
W7	-17.68	2/3/99	955			2.74 85	89.8 1258	0.17 2.4	131 3665	21.3	7.847	30.075	16647	0.62		

NELHA Water Quality Laboratory

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5/29/1992 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)
W7	-17.68	3/2/99	952			3.03 94	85.8 1202	0.06 0.8	132 3710	21.3	7.857	31.700	17547	0.46		
W7	-17.68	4/6/99	939			3.04 94	79.7 1116	0.01 0.1	132 3710	21.0	7.858	31.731	17564	0.22		
W7	-17.68	5/4/99	948			3.03 94	74.4 1042	0.06 0.8	126 3525	20.6	7.868	31.819	17613	0.67		
W7	-17.68	6/2/99	938			2.86 89	46.9 657	0.09 1.3	130 3651	20.3	7.873	31.843	17626	3.86		
W7	-17.68	7/7/99	1016			3.08 95	43.9 615	0.09 1.3	129 3629	19.8	7.897	31.628	17507	3.78		
W7	-17.68	8/25/99	940			3.00 93	47.1 660	0.06 0.8	128 3592	20.3	7.940	31.624	17505	3.23		
W7	-17.68	9/8/99	951			3.03 94	47.9 671	0.02 0.3	129 3623	19.9	7.938	31.611	17498	3.29		
W7	-17.68	10/6/99	957			2.98 92	78.3 1097	0.04 0.6	134 3752	20.7	7.888	31.955	17688	1.12		
W7	-17.68	11/3/99	1012			2.26 70	46.9 657	0.13 1.8	143 4025	22.4	7.846	32.588	18038	3.11		
W7	-17.68	12/15/99	1031			2.85 88	41.1 576	0.04 0.6	140 3929	21.5	7.834	32.074	17754	3.53		
W7	-17.68	1/11/00	1007			2.60 81	45.4 635	0.18 2.5	132 3710	20.8	7.855	32.002	17714	3.40		
W7	-17.68	2/14/00	1006			2.81 87	44.4 622	0.03 0.4	130 3662	20.5	7.875	31.978	17701	3.63		
W7	-17.68	3/22/00	1023			2.88 89	67.1 940	0.07 1.0	130 3654	20.4	7.878	31.762	17581	2.75		
W7	-17.68	4/12/00														
W7	-17.68	5/17/00														
W7	-17.68	6/6/00	1015			2.79 86	67.3 943	0.03 0.4	231 6496	22.4	7.818	32.493	17986	0.33		
W7	-17.68	7/31/00	959			3.22 100	37.7 528	0.10 1.4	148 4159	23.8	7.769	33.704	18656	0.20		
W7	-17.68	8/30/00	1010			3.34 103	47.4 664	0.02 0.3	150 4202	23.9	7.727	33.648	18625	0.41		
W7	-17.68	9/6/00	942			3.31 103	48.2 675	0.01 0.1	150 4213	23.9	7.727	33.584	18590	0.23		
W7	-17.68	10/25/00	1129			3.51 109	42.3 592	0.16 2.2	168 4718	24.4	7.727	33.645	18623	1.45		
W7	-17.68	11/14/00	1011			3.42 106	49.2 689	0.24 3.4	163 4570	24.0	7.728	33.341	18455	0.63		
W7	-17.68	12/19/00	945			3.58 111	79.7 1116	0.15 2.1	163 4564	23.4	7.747	32.645	18070	0.82		
W7	-17.68	1/24/01	935			3.10 96	64.4 902	0.14 2.0	162 4536	23.0	7.750	32.597	18043	2.16		
W7	-17.68	2/7/01	953			3.33 103	91.8 1286	0.07 1.0	151 4230	22.6	7.814	32.435	17954	0.92		
W7	-17.68	3/12/01	942			3.29 102	106 1486	0.01 0.1	150 4218	22.2	7.752	32.494	17986	0.53		
W7	-17.68	4/18/01	931			3.10 96	92.1 1290	0.03 0.4	153 4306	22.1	7.715	32.708	18105	0.15		
W7	-17.68	5/14/01	1048			3.16 98	79.4 1112	0.19 2.7	159 4474	22.9	7.695	33.002	18267	0.17		
W7	-17.68	6/13/01	955			3.10 96	73.3 1027	0.02 0.3	165 4631	23.0	7.672	33.264	18412	0.15		
W7	-17.68	7/24/01	958			3.06 95	55.1 771	0.04 0.6	173 4848	24.0	7.646	33.793	18705	0.23		
W7	-17.68	8/22/01	958			3.38 105	44.7 627	0.01 0.1	173 4848	24.6	7.625	34.020	18831	0.15		
W7	-17.68	9/17/01	1049			3.42 106	46.7 654	0.05 0.7	175 4901	24.8	7.655	33.958	18797	0.20		
W7	-17.68	10/22/01	1028			3.34 103	43.9 615	0.03 0.4	170 4786	24.6	7.676	33.638	18620	1.27		
W7	-17.68	11/5/01	1100			3.44 107	46.0 644	0.04 0.6	172 4831	24.0	7.675	33.651	18627	1.03		
W7	-17.68	12/12/01	1053			3.36 104	58.9 825	0.05 0.7	179 5036	23.9	7.700	33.382	18478	0.17		
W7	-17.68	1/7/02	1043			3.48 108	95.4 1336	0.21 2.9	168 4721	23.5	7.711	32.505	17992	0.90		

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5/29/1992 - 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)
W7	-17.68	2/25/02	1003			3.50 108	107 1499	0.04 0.6	168 4707	22.9	7.731	32.668	18083	0.51		
W7	-17.68	3/18/02	1028			3.54 110	87.4 1225	0.30 4.2	171 4797	22.9	7.740	32.749	18127	0.54		
W7	-17.68	4/10/02	1034			3.34 103	104 1450	0.05 0.7	165 4645	22.8	7.724	32.625	18059	0.66		
W7	-17.68	5/22/02	1042			3.26 101	106 1488	0.16 2.2	167 4676	22.5	7.749	32.490	17984	0.82		
W7	-17.68	6/19/02	1127			3.32 103	100 1406	0.10 1.4	162 4550	22.3	7.764	32.167	17805	1.13		
W7	-17.68	7/22/02	1110			3.20 99	106 1479	0.06 0.8	155 4353	21.6	7.799	31.956	17688	0.85		
W7	-17.68	8/21/02	1150			3.11 96	111 1553	0.21 2.9	153 4300	21.2	7.781	31.872	17642	0.56		
W7	-17.68	9/25/02	1017			3.05 94	109 1527	0.28 3.9	160 4494	21.4	7.794	31.894	17654	0.65		
W7	-17.68	10/15/02	1055			2.99 93	103 1444	0.15 2.1	156 4387	21.8	7.763	32.034	17732	0.57		
W7	-17.68	11/17/02	1031			3.17 98	100 1401	0.36 5.0	158 4449	21.9	7.742	31.978	17701	0.65		
W7	-17.68	12/18/02	1057			3.24 100	57.7 809	0.03 0.4	161 4527	23.6	7.742	32.468	17972	2.58		
W7	-17.68	1/23/03	1040			1.76 55	12.6 176	0.04 0.6	94.6 2657	24.4	8.039	34.175	18917	5.84		
W7	-17.68	2/11/03	1100			2.42 75	28.1 394	0.07 1.0	117 3286	24.3	7.984	33.406	18491	4.42		
W7	-17.68	3/20/03	1141			2.65 82	87.7 1228	0.06 0.8	137 3839	23.2	7.937	32.699	18100	0.02		
W7	-17.68	4/30/03	1028			2.92 90	90.1 1262	0.12 1.7	144 4036	23.2	7.859	34.827	19278	0.12		
W7	-17.68	5/14/03	932			3.01 93	87.2 1221	0.08 1.1	146 4109	22.8	7.821	32.883	18202	0.15		
W7	-17.68	6/4/03	1020			3.09 96	83.6 1171	0.05 0.7	147 4131	23.2	7.780	34.957	19350	0.12		
W7	-17.68	7/30/03	951			3.20 99	94.7 1326	0.03 0.4	154 4336	23.2	7.836	32.851	18184	0.42		
W7	-17.68	8/28/03	945			3.28 102	99.9 1400	0.02 0.3	152 4277	23.8	7.769	32.710	18106	0.02		
W7	-17.68	9/16/03	1006			3.42 106	93.9 1316	0.15 2.1	155 4348	23.1	7.771	32.477	17977	0.32		
W7	-17.68	10/8/03	938			3.34 103	105 1476	0.10 1.4	155 4339	22.9	7.780	32.383	17925	NA		
W7	-17.68	11/5/03	1007			3.36 104	101 1415	0.39 5.5	154 4328	22.7	7.771	32.234	17842	NA		
W7	-17.68	11/14/03	1015							23.0				0.12		
W7	-17.68	12/17/03	1036			3.58 111	75.3 1055	0.16 2.2	169 4732	23.6	7.821	32.528	18005	2.13		
W7	-17.68	1/28/04	1100			3.39 105	42.8 600	0.78 10.9	139 3893	23.7	7.873	32.470	17973	4.02		
W7	-17.68	2/11/04	938			3.32 103	70.5 987	0.40 5.6	141 3954	22.9	7.832	32.310	17884	2.53		
W7	-17.68	3/16/04	1025			3.45 107	41.7 584	0.14 2.0	135 3777	24.5	7.917	34.865	19299			
W7	-17.68	3/30/04	936							23.5				1.40		
W7	-17.68	4/22/04	1011			3.18 98	105 1471	0.22 3.1	138 3867	22.5	7.893	31.863	17637	0.40		
W7	-17.68	5/18/04	1006			3.08 95	102 1424	0.20 2.8	132 3704	22.0	7.856	30.91	17109	0.41		
W7	-17.68	6/8/04	1043			2.98 92	99.3 1391	0.11 1.5	131 3679	22.3	7.587	30.75	17021	0.18		
W7	-17.68	7/15/04	1005			3.17 98	95.1 1333	0.20 2.8	137 3851	21.8	7.792	30.70	16993	0.53		
W7	-17.68	8/25/04	1046			2.92 90	98.2 1375	0.13 1.8	143 4016	21.7	7.778	30.55	16910	0.79		
W7	-17.68	9/27/04	1157			3.18 98	97.9 1371	0.15 2.1	152 4275	21.5	7.765	30.52	16894	2.55		
W7	-17.68	10/4/04	1116			3.14 97	98.0 1373	0.20 2.8	142 3991	21.6	7.779	30.51	16888	1.04		

NELHA Water Quality Laboratory

Well 7 Data Table

5/29/1992 - 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)
W7	-17.68	11/23/04	1123			3.16 98	112 1570	0.10 1.4	151 4238	21.8	7.797	30.37	16811	1.11		
W7	-17.68	12/8/04	947			3.08 95	105 1470	0.07 1.0	150 4207	22.6	7.794	30.42	16838	1.06		
W7	-17.68	1/18/05	946			3.18 98	19.9 279	0.09 1.3	126 3550	23.9	7.883	33.227	18392	5.49		
W7	-17.68	2/10/05	930			3.24 100	53.7 752	0.27 3.8	139 3910	23.9	7.908	32.486	17982	3.03		
W7	-17.68	3/22/05	935			3.24 100	106 1478	0.12 1.7	144 4039	22.8	7.879	31.763	17582	0.63		
W7	-17.68	4/20/05	929			3.06 95	111 1560	0.14 2.0	141 3966	22.3	7.869	31.606	17495	0.47		
W7	-17.68	5/25/05	947			3.28 102	115 1605	0.12 1.7	144 4056	20.9	7.841	31.523	17449	0.25		
W7	-17.68	6/14/05	948			3.18 98	109 1526	0.12 1.7	142 3980	22.2	7.839	31.438	17402	0.28		
W7	-17.68	7/19/05	939			3.24 100	107 1493	0.11 1.5	141 3963	21.7	7.836	31.390	17375	0.31		
W7	-17.68	8/3/05	1009			3.34 103	96.5 1352	0.06 0.8	141 3960	22.0	7.876	31.382	17371	0.43		
W7	-17.68	9/22/05	931			3.52 109	122 1705	0.14 2.0	144 4039	22.1	7.848	31.353	17355	0.37		
W7	-17.68	10/19/05	943			3.52 109	114 1593	0.06 0.8	144 4033	22.9	7.847	31.374	17366	0.37		
W7	-17.68	11/8/05	929			3.50 108	114 1590	0.09 1.3	142 3994	22.5	7.841	31.394	17377	0.37		
W7	-17.68	12/22/05	901			3.46 107	67.2 941	0.32 4.5	143 4013	23.3	7.805	32.011	17719	2.48		
W7	-17.68	1/31/06	928			3.18 98	93.4 1308	0.33 4.6	139 3907	23.2	7.841	31.665	17527	0.93		
W7	-17.68	2/16/06	925			3.24 100	95.4 1336	0.27 3.8	142 3977	22.5	7.851	31.353	17355	0.53		
W7	-17.68	3/22/06	916			3.18 98	97.7 1368	0.31 4.3	144 4044	22.2	7.799	31.580	17480	0.52		
W7	-17.68	4/27/06	1009			3.22 100	97.5 1366	0.23 3.2	141 3960	21.9	7.802	31.677	17534	0.74		
W7	-17.68	5/24/06	1022			3.03 94	95.5 1338	0.05 0.7	149 4185	21.9	7.798	31.622	17504	1.12		
W7	-17.68	6/28/06	1022			3.06 95	103 1443	0.29 4.1	139 3904	21.9	7.797	31.531	17453	0.82		
W7	-17.68	7/19/06	944			3.02 94	101 1415	0.21 2.9	142 3988	21.8	7.788	31.456	17412	1.20		
W7	-17.68	8/9/06	1050			3.05 94	101 1415	0.15 2.1	145 4072	21.4	7.797	31.436	17401	1.40		
W7	-17.68	9/20/06	1055			3.07 95	79.6 1115	0.15 2.1	150 4213	23.2	7.768	32.067	17750	0.89		
W7	-17.68	10/25/06	1014			3.16 98	87.7 1228	0.28 3.9	150 4213	21.9	7.773	31.898	17656	0.73		
W7	-17.68	11/29/06	1102			2.91 90	89.0 1247	0.21 2.9	151 4241	22.9	7.722	32.017	17722	0.80		
W7	-17.68	12/13/06	1052			2.94 91	85.7 1200	0.19 2.7	149 4185	22.5	7.727	31.913	17665	0.82		
W7	-17.68	1/10/07	1045			2.85 88	70.6 989	0.22 3.1	148 4157	23.3	7.682	32.363	17914	0.74		
W7	-17.68	2/21/07	1110			2.41 75	45.6 639	0.39 5.5	147 4129	24.5	7.654	32.869	18194	1.38		
W7	-17.68	3/7/07	1104			2.54 79	44.6 625	0.30 4.2	150 4213	24.7	7.495	32.863	18191	2.48		
W7	-17.68	4/19/07	1102			2.56 79	60.6 849	0.29 4.1	141 3960	23.7	7.743	32.019	17723	0.32		
W7	-17.68	5/2/07	1051			2.54 79	65.4 916	0.32 4.5	141 3960	23.2	7.717	31.988	17706	0.65		
W7	-17.68	6/20/07	1055			2.35 73	53.3 746	0.23 3.2	139 3904	22.9	7.700	32.164	17804	0.16		
W7	-17.68	7/25/07	1249		0.55 Flood	2.67 83	50.2 704	0.31 4.4	135 3788	22.1	7.55	31.96	17691	0.12		
W7	-17.68	8/27/07	1215		0.24 Flood	2.53 78	39.8 558	0.11 1.5	111 3104	22.1	7.63	31.72	17558	0.12		
W7	-17.68	9/13/07	1540		0.40 Flood	2.60 80	41.7 584	0.14 2.0	138 3881	21.4	7.64	31.74	17569	0.08		

NELHA Water Quality Laboratory

Well 7 Data Table

5/20/1992 - 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)
W7	-17.68	10/23/07	1157		0.38 Flood	4.71 146	60.4 846	1.99 27.9	275 7712	21.5	7.62	31.76	17580	0.10		
W7	-17.68	11/20/07	1202		0.43 Flood	2.36 73	68.2 955	0.36 5.1	126 3546	22.3	7.61	31.67	17530	0.11		
W7	-17.68	12/19/07	1152		0.30 High	2.31 72	48.2 676	1.02 14.3	123 3468	20.8	7.67	31.69	17541	0.10		
W7	-17.68	1/25/08	905		0.43 Ebb	1.66 51	14.2 199	0.63 8.8	86 2405	21.1	7.32	31.78	17591	0.20		
W7	-17.68	2/26/08	1100		0.09 Ebb	2.58 80	74.3 1040	0.08 1.1	123 3446	20.9	7.48	32.00	17713	0.06		
W7	-17.68	3/17/08				Well bladder Pump Air Line Leak No Sample										
W7	-17.68	4/30/08	1209		0.27 Flood	2.18 68	94.6 1325	0.09 1.2	126 3538	23.3	7.36	32.13	17785	0.41		
W7	-17.68	5/15/08				Well bladder Pump Air Line Leak No Sample										
W7	-17.68	6/16/08	1226		0.30 Flood	2.95 91	73.4 1028	0.18 2.5	141 3954	21.2	7.47	32.18	17812	3.25		
W7	-17.68	7/21/08	1145		0.09 Low	3.10 96	77.2 1082	0.41 5.8	128 3586	20.7	6.61	32.20	17824	0.93	0.09	
W7	-17.68	8/30/08	1448		0.58 Flood	3.31 102	79.4 1112	0.14 1.9	68 1896	20.4	7.49	32.02	17724	0.75	0.11	
W7	-17.68	9/15/08	1208		0.12 Flood	3.46 107	84.4 1183	0.10 1.4	129 3632	21.9	7.46	31.92	17669	0.91		
W7	-17.68	10/30/08	1025		0.15 Low	4.02 124	98.0 1372	0.20 2.8	127 3580	22.7	7.46	29.25	16191	3.49	0.11	
W7	-17.68	11/25/08	1000		0.15 Low	3.92 122	105.5 1477	0.07 1.0	294 8244	20.7	7.33	31.70	17547	0.17	0.07	
W7	-17.68	12/16/08	1043		0.40 Ebb	4.80 149	104.3 1461	0.11 1.5	135 3786	20.4	7.61	31.92	17669	0.72		
W7	-17.68	1/26/09	1436		0.15 Flood	4.13 128	84.9 1189	0.65 9.1	116 3254	20.2	7.70	31.49	17431	4.63	0.13	
W7	-17.68	2/26/09	1104		0.03 Low	3.49 108	86.0 1204	0.59 8.2	120 3359	19.3	7.59	31.06	17193	4.58	0.15	
W7	-17.68	3/23/09	1039		0.06 Flood	3.92 121	82.6 1157	0.13 1.8	115 3219	18.0	7.53	30.71	16999	4.67	1.41	
W7	-17.68	4/27/09	1050		-0.1 Low	5.30 164	77.6 1087	0.24 3.4	114 3208	18.7	7.65	31.11	17220	4.77	0.16	
W7	-17.68	5/27/09	1422		0.24 Flood	4.58 142	70.9 993	0.17 2.4	96 2683	18.5	7.77	30.87	17087	4.64	0.11	
W7	-17.68	6/19/09	1120		0.46 Flood	3.74 116	59.9 840	0.64 8.9	105 2957	17.8	7.26	30.54	16905	4.97	0.06	
W7	-17.68	7/31/09	1030		0.46 Flood	4.18 130	67.3 943	0.13 1.8	91 2555	18.1	7.63	30.65	16966	5.07	0.04	
W7	-17.68	8/20/09	1133		0.09 Flood	3.45 107	51.8 726	1.69 23.7	90 2524	20.4	7.64	30.92	17115	3.95	0.03	
W7	-17.68	9/24/09	1043		0.52 Ebb	3.75 116	51.1 716	0.49 6.8	74 2076	18.3	8.26	30.85	17076	4.49	0.03	
W7	-17.68	10/30/09	1029		0.21 Flood	4.91 152	80.0 1121	0.62 8.7	165 4625	19.1	7.54	30.87	17087	4.57	0.02	
W7	-17.68	11/17/09	1133		0.12 Low	4.87 151	67.6 947	0.86 12.0	119 3339	18.1	7.56	30.92	17115	3.61	0.03	
W7	-17.68	12/8/09	1440		0.09 Ebb	5.10 158	74.4 1042	1.15 16.1	150 4216	19.3	7.55	30.93	17121	1.26	0.02	
W7	-17.68	1/4/10	1459		0.0 Low	4.55 141	56.5 792	1.57 22.0	154 4313	21.7	7.44	31.48	17425	1.30	0.07	
W7	-17.68	2/2/10	1419		-0.1 Low	4.75 147	41.8 585	1.43 20.0	138 3885	23.7	7.65	32.56	18023	2.41	0.16	
W7	-17.68	3/10/10	1339		0.21 High	5.13 159	65.0 911	0.57 8.0	163 4571	23.4	7.64	31.76	17580	0.78	0.11	
W7	-17.68	4/7/10	1234		0.21 High	4.84 150	83.3 1167	0.50 7.0	166 4673	20.4	7.57	31.96	17691	1.01	0.24	
W7	-17.68	5/12/10	1344		0.46 Flood	3.97 123	77.5 1085	0.86 12.0	155 4361	20.4	7.63	31.69	17541	0.91	0.05	
W7	-17.68	6/16/10	1159		0.09 Low	4.46 138	93.7 1313	0.36 5.0	171 4814	21.7	7.62	31.54	17458	1.66	0.08	
W7	-17.68	7/14/10	949		0.15 Ebb	4.13 128	96.0 1344	0.43 6.0	176 4939	20.5	7.54	31.72	17558	0.93	0.07	
W7	-17.68	8/4/10	1025		0.52 Flood	4.42 137	92.9 1301	0.16 2.2	164 4619	20.5	7.60	31.55	17464	0.80	0.13	

NELHA Water Quality Laboratory

Well 7 Data Table

5/29/1992 - 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)
W7	-17.68	9/13/10	1606		0.21 Low	4.39 136	94.4 1322	0.16 2.3	165 4623	20.2	7.57	31.60	17491	0.73	0.11	
W7	-17.68	10/11/10	1130		0.34 Ebb	4.42 137	96.5 1351	0.62 8.7	159 4468	20.9	7.63	31.36	17359	0.72	0.36	
W7	-17.68	11/15/10	1234		0.43 High	4.33 134	95.6 1339	0.20 2.8	159 4455	20.5	7.56	31.55	17464	0.76	0.04	
W7	-17.68	12/13/10	1015		0.40 High	4.46 138	87.6 1227	0.09 1.2	158 4439	19.9	7.51	31.32	17336	0.67	0.09	
W7	-17.68	1/3/11	1430		0.15 Flood	4.36 135	80.2 1123	0.19 2.6	150 4214	20.5	7.56	31.36	17359	0.93	0.04	
W7	-17.68	4/4/11	1506		0.34 Flood	4.33 134	71.5 1002	0.02 0.3	131 3672	19.3	7.56	30.73	17010	3.80	0.15	
W7	-17.68	7/11/11	1429		0.73 High	4.78 148	57.5 806	0.08 1.1	143 4005	20.3	7.59	31.26	17303	3.58	0.07	
W7	-17.68	10/10/11	1326		0.37 Flood	5.04 156	66.9 937	0.06 0.8	139 3908	19.6	7.63	31.53	17453	2.93	0.11	
W7	-17.68	1/9/12	1348		0.06 Flood	4.36 135	79.2 1110	0.10 1.4	137 3847	20.8	7.64	31.47	17419	1.69	0.03	
W7	-17.68	5/8/12	1444		0.30 Flood	4.42 137	78.0 1092	0.09 1.2	146 4104	20.5	7.56	31.63	17508	3.18	0.23	
W7	-17.68	7/17/12	1400		0.61 Flood	4.62 143	57.8 810	0.18 2.5	138 3862	19.4	7.59	31.55	17464	4.29	0.14	
W7	-17.68	10/15/12	1202		0.06 Flood	4.68 145	48.8 683	0.24 3.4	134 3751	19.1	7.60	31.53	17453	4.05	0.02	
W7	-17.68	1/7/13	1256		0.24 High	4.49 139	58.1 814	0.06 0.9	174 4899	20.1	7.67	32.05	17741	3.96	0.06	
W7	-17.68	4/8/13	1235		0.18 Flood	4.13 128	63.0 882	0.23 3.2	122 3418	18.7	7.80	31.29	17320	4.51	0.06	
W7	-17.68	7/16/13	1446		0.37 Ebb	3.39 105	40.3 564	0.10 1.4	122 3433	19.8	7.74	31.75	17574	4.45	0.11	
W7	-17.68	10/1/13	1610		0.30 Ebb	4.97 154	85.7 1200	0.30 4.2	149 4175	19.1	7.79	31.56	17469	5.14	0.05	
W7	-17.68	1/14/14	1506		0.70 High	3.29 102	48.1 674	0.24 3.3	128 3605	19.6	7.76	31.72	17558	4.41	0.02	
W7	-17.68	4/28/14	1714		0.579 High	3.07 95	53.8 754	0.27 3.8	125 3522	20.9	7.76	31.23	17287	5.77	0.07	
W7	-17.68	7/28/14	1502		0.488 Flood	3.16 98	49.0 686	0.14 2.0	119 3355	20.0	7.67	31.63	17508	4.55	0.02	
W7	-17.68	11/13/14	1154		0.37 Flood	3.33 103	43.0 602	0.05 0.7	124 3484	20.9	7.74	31.65	17519	4.15	0.03	
W7	-17.68	2/9/15	1600		0.30 Low	3.89 121	89.6 1256	0.32 4.5	153 4297	22.0	7.71	32.17	17807	3.72	0.13	
W7	-17.68	4/1/15			No sample											
W7	-17.68	8/14/15	1053		0.09 Flood	3.12 97	55.6 779	0.72 10.1	114 3204	20.1	7.57	31.85	17630	4.13	0.02	
W7	-17.68	11/13/15	1003		0.15 Low	3.47 108	65.7 921	0.07 1.0	123 3447	21.3	7.79	31.02	17170	3.62	0.08	
W7	-17.68	1/27/16	1628		0.30 Flood	3.13 97	59.4 832	0.02 0.3	121 3405	20.7	7.82	31.48	17425	4.60	0.13	
W7	-17.68	4/21/16	1702		0.50 Ebb	2.89 89	48.6 681	0.19 2.6	115 3217	22.1	7.68	32.07	17752	3.78	0.42	
W7	-17.68	7/27/16	1148		0.50 Flood	2.81 87	70.1 982	0.09 1.3	111 3126	20.4	7.70	31.68	17536	2.32	0.10	
W7	-17.68	11/15/16	1448		0.40 Flood	3.08 96	55.6 779	0.41 5.8	115 3230	20.8	7.58	31.51	17442	3.57	0.16	
W7	-17.68	3/22/17	1511		0.15 Ebb	3.20 99	71.2 997	0.21 3.0	118 3309	20.5	7.75	31.68	17536	3.52	0.74	
W7	-17.68	4/19/17	1409		0.12 Ebb	3.17 98	59.9 839	0.83 11.6	115 3230	23.3	7.78	31.47	17419	3.58	0.03	
W7	-17.68	9/19/17	1644		0.55 Ebb	2.98 92	41.6 583	0.47 6.6	115 3241	20.9	7.80	31.53	17453	4.00	0.27	
W7	-17.68	10/19/17	1538		0.53 High	3.21 100	48.3 677	0.32 4.5	111 3123	20.8	7.78	31.53	17453	3.89	0.05	
W7	-17.68	3/23/18	1137		0.08 Ebb	2.78 86	70.0 980	0.12 1.7	90 2521	18.3	7.79	30.22	16728	4.47	0.05	
W7	-17.68	5/11/18	1344		0.45 High	2.97 92	71.9 1008	0.11 1.6	114 3201	18.8	7.73	30.67	16977	4.00	0.04	
W7	-17.68	9/4/18	1259		0.67 High	3.32 103	52.4 734	0.66 9.3	124 3483	19.2	7.69	30.99	17154	4.55	0.08	

NELHA Water Quality Laboratory

Well 7 Data Table

5/29/1992 - 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)
W7	-17.68	11/1/18	1047		0.61 High	2.98 92	53.1 744	0.01 0.2	132 3714	20.7	7.65	30.96	17137	5.22	0.09	
W7	-17.68	2/8/19	1408		0.10 Flood	3.92 121	85.4 1196	0.10 1.4	120 3375	18.9	7.58	29.92	16561	5.31	0.08	
W7	-17.68	5/16/19	1005		0.08 Flood	3.78 117	74.0 1037	0.09 1.2	128 3592	21.0	7.56	31.90	17657	1.78	0.24	
W7	-17.68	8/28/19	1600		0.65 High	3.57 111	70.7 991	0.09 1.2	156 4375	21.4	7.61	31.92	17669	0.75	0.52	
W7	-17.68	10/16/19	1120		0.16 Low	3.57 111	75.6 1058	0.91 12.8	154 4312	21.6	7.56	32.30	17879	1.22	0.23	
W7	-17.68	2/5/20	1543		0.15 Ebb	4.00 124	51.3 719	-0.24 -3.3	133 3742	21.4	7.70	32.21	17829	3.19	0.22	
W7	-17.68	6/3/20	1445		0.67 High	3.06 95	75.6 1059	0.49 6.9	124 3484	20.8	7.66	31.81	17608	1.83	0.30	
W7	-17.68	8/19/20	1439		0.60 Flood	2.01 62	101.9 1427	0.46 6.4	154 4314	29.0	7.65	29.90	16550	3.66	0.15	
W7	-17.68	12/10/20	1111		0.45 High	5.06 157	83.3 1167	0.43 6.0	213 5972	26.5	7.53	28.98	16041	3.47	1.16	
W7	-17.68	2/18/21	1443		0.05 Low	4.35 135	91.8 1286	0.21 2.9	203 5713	26.6	7.59	28.14	15576	5.10	0.63	
W7	-17.68	4/15/21	1221		0.00 Low	5.77 179	142.1 1991	0.14 1.9	251 7048	29.3	7.46	25.86	14314	4.73	2.07	
W7	-17.68	7/7/21	1443		0.60 High	6.28 194	104.8 1468	0.16 2.3	224 6279	30.2	7.44	26.11	14453	5.26	0.63	
W7	-17.68	11/9/21	1341		0.20 Low	7.05 218	87.0 1219	0.41 5.7	239 6720	28.6	7.43	26.30	14558	3.80	1.47	
W7	-17.68	2/8/22	1528		0.05 Low	5.89 182	139.9 1960	0.11 1.5	256 7185	27.7	7.62	25.94	14358	6.56	1.47	
W7	-17.68	4/21/22	1143		-0.01 Low	4.57 142	95.3 1334	-0.05 -0.7	222 6247	27.4	7.58	25.85	14309	5.33	1.36	
W7	-17.68	7/13/22	1422		0.65 Flood	0.54 17	84.5 1183	-0.39 -5.4	231 6484	28.3	7.54	26.70	14779	3.95	0.71	
W7	-17.68	11/25/22	1123		0.15 Low	4.61 143	73.4 1028	0.06 0.8	223 6258	25.8	7.62	26.25	14530	3.76	0.30	
W7	-17.68	1/26/23	1211		0.10 Low	4.47 138	76.2 1068	0.09 1.2	179 5031	25.2	7.70	28.18	15598	4.51	19.1	
W7	-17.68	4/26/23	1451		0.13 Flood	5.39 167	85.8 1202	0.03 0.4	237 6643	27.3	7.67	25.44	14082	4.09	1.78	
W7	-17.68	8/15/23	1431		0.50 Flood	4.39 136	80.4 1126	0.04 0.6	447 12544	27.5	7.63	26.10	14447	5.75	1.43	
W7	-17.68	11/16/23	1323		0.19 Low	4.42 137	85.8 1201	0.05 0.7	223 6270	26.3	7.62	26.38	14602	4.33	1.43	146.2
W7	-17.68	1/24/24	1219		0.50 Flood	2.96 92	49.0 687	0.12 1.7	143 4028	27.8	7.67	30.68	16982	5.42	1.52	140.8
W7	-17.68	5/7/24	1454		0.69 High	3.87 120	90.3 1264	-0.06 -0.9	186 5215	26.7	7.65	26.95	14918	3.27	1.24	154.7
W7	-17.68	8/2/24	1128		0.30 Flood	4.31 134	119.7 1676	0.01 0.1	187 5252	28.3	7.65	27.30	15111	4.09	2.96	129.0
W7	-17.68	12/11/24	1219		0.43 High	4.34 134	82.8 1160	0.14 1.9	179 5028	26.9	7.69	27.40	15167	3.62	3.15	147.6
W7	-17.68	1/10/25	1446		0.15 Ebb	3.67 114	63.6 890	0.19 2.6	138 3890	27.4	7.70	30.02	16617	4.24	1.14	133.1
W7	-17.68	5/14/25	1545		0.50 High	3.64 113	77.6 1087	0.08 1.1	170 4775	26.0	7.94	27.39	15161	4.92	2.89	133.5
Mean					0.30	3.16 98	69.54 974	0.25 3.5	144 4052	21.9	7.78	31.43	17395	2.39	0.66	140.7
Std. Dev.					0.21	0.95 29	29.66 415	0.30 4.1	36 1022	2.3	0.19	1.51	836	1.89	2.14	9.3
Maximum					0.73	7.05 218	195.50 2738	1.99 27.9	447 12544	30.2	8.26	34.96	19350	9.30	19.10	154.7
Minimum					-0.06	0.54 17	12.56 176	-0.39 -5.4	68 1896	16.6	6.61	25.44	14082	0.02	0.02	129.0
n					97	264 264	264 264	264 264	264 264	266	264	264	264	263	85	7