

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	5/20/92	815			3.87 120	58.3 817	0.35 4.9	253 7106	15.1	7.506	28.256	15,640	6.98		
W7A	-10.36	6/24/92	820			3.55 110	53.7 752	0.72 10.1	217 6095	16.7	7.622	29.313	16,226	6.72		
W7A	-10.36	7/30/92	744			3.21 99	50.4 706	1.22 17.1	189 5308	19.6	7.779	29.578	16,372	6.61		
W7A	-10.36	8/26/92	948			4.22 131	60.4 846	0.18 2.5	229 6432	16.5	7.648	28.509	15,780	6.56		
W7A	-10.36	9/23/92	807			3.93 122	51.4 720	0.31 4.3	248 6965	16.6	7.648	28.346	15,690	6.51		
W7A	-10.36	10/28/92	842			3.59 111	53.8 754	0.21 2.9	230 6460	17.3	7.685	28.800		5.86		
W7A	-10.36	11/18/92	833			3.77 117	59.9 839	0.21 2.9	248 6965	16.7	7.620	27.953	15,473	6.14		
W7A	-10.36	12/9/92	825			3.56 110	53.3 747	0.20 2.8	235 6600	16.8	7.682	28.598	15,830	6.40		
W7A	-10.36	1/27/93	801			2.09 65	30.5 427	0.29 4.1	183 5137	20.8	7.986	30.356	16,803	5.71		
W7A	-10.36	2/24/93	749			2.86 89	44.8 628	0.35 4.9	208 5847	21.9	8.071	28.986	16,045	5.05		
W7A	-10.36	3/17/93	756			3.19 99	47.8 669	0.38 5.3	226 6336	21.7	8.051	28.120	15,565	5.21		
W7A	-10.36	4/28/93	748			2.92 90	40.1 562	0.32 4.5	209 5870	18.7	7.901	28.551	15,804	4.73		
W7A	-10.36	5/26/93	752			2.57 80	38.4 537	0.24 3.4	260 7302	18.8	7.932	28.719	15,897	4.52		
W7A	-10.36	6/29/93	805			2.82 87	41.7 584	0.21 2.9	208 5842	18.7	7.878	28.528	15,791	4.65		
W7A	-10.36	9/1/93	805			3.42 106	53.5 749	0.23 3.2	268 7527	19.1	7.763	26.930	14,906	3.74		
W7A	-10.36	10/27/93	758			3.26 101	42.9 600	0.17 2.4	234 6572	19.8	7.846	27.248	15,082	1.65		
W7A	-10.36	3/1/94	1018			3.40 105	39.2 549	0.25 3.5	224 6291	19.6	7.809	26.547	14,694	1.77		
W7A	-10.36	6/22/94	737			2.98 92	27.9 390	0.29 4.1	195 5485	19.4	7.824	27.780	15,377	0.96		
W7A	-10.36	8/24/94	759			2.99 93	37.0 518	0.00 0.0	168 4727	19.4	7.817	29.064	16,088	2.52		
W7A	-10.36	11/28/94	952			2.87 89	53.7 752	0.43 6.0	387 10878	20.4	7.750	26.527	14,683	1.43		
W7A	-10.36	1/25/95	830			2.71 84	42.2 591	0.00 0.0	197 5538	19.6	7.897	27.646	15,303	2.47		
W7A	-10.36	2/15/94	848			2.62 81	46.4 650	0.00 0.0	188 5280	20.2	7.934	27.924	15,457	2.03		
W7A	-10.36	3/29/95	828			2.81 87	47.7 669	0.30 4.2	210 5895	19.9	7.926	26.852	14,863	1.83		
W7A	-10.36	4/26/95	822			3.01 93	56.3 788	0.08 1.1	195 5488	20.0	7.919	27.178	15,044	1.88		
W7A	-10.36	5/9/95	1005			3.31 103	56.1 786	0.27 3.8	232 6510	20.3	7.864	26.112	14,454	1.28		
W7A	-10.36	6/28/95	820			3.12 97	49.5 694	0.51 7.1	213 5977	20.2	7.846	26.409	14,618	2.17		
W7A	-10.36	7/26/95	1000			3.03 94	42.9 601	0.21 2.9	215 6041	20.7	7.884	26.609	14,729	2.34		
W7A	-10.36	8/23/95	914			2.54 79	35.6 498	0.44 6.2	169 4741	20.7	7.891	28.595	15,828	2.01		
W7A	-10.36	9/12/95	907			2.73 85	37.1 520	0.14 2.0	191 5359	20.5	7.896	27.584	15,268	1.93		
W7A	-10.36	10/17/95	10			2.79 86	49.1 688	0.17 2.4	375 10529	20.6	7.888	28.393	15,716	2.78		
W7A	-10.36	11/7/95	1005			2.47 77	34.8 487	0.44 6.2	178 5010	20.5	7.952	28.312	15,671	2.52		
W7A	-10.36	12/6/95	1019			2.12 66	31.8 446	0.38 5.3	165 4645	21.1	7.989	28.931	16,014	2.52		
W7A	-10.36	1/30/96	1106			2.93 91	43.7 612	0.11 1.5	208 5850	21.0	7.936	26.655	14,754	2.45		
W7A	-10.36	2/27/96	1220			3.15 98	60.9 852	0.21 2.9	199 5586	20.8	7.918	26.682	14,769	2.52		
W7A	-10.36	2/27/96	1135			3.51 109	80.2 1123	0.40 5.6	206 5780	21.2	7.849	26.247	14,528	2.39		

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	4/2/96	1020			3.71 115	86.1 1206	0.20 2.8	224 6282	21.0	7.829	26.749	14,806	2.54		
W7A	-10.36	5/15/96	1148			3.77 117	76.4 1070	0.05 0.7	203 5713	20.8	7.855	27.670	15,316	2.75		
W7A	-10.36	6/18/96	1116			3.67 114	64.2 899	0.11 1.5	195 5483	20.5	7.875	23.773	13,159	2.77		
W7A	-10.36	7/17/96	1143			4.64 144	117.7 1649	125 1756	197 5531	21.0	7.929	27.469	15,205	0.34		
W7A	-10.36	8/6/96	1159			4.21 130	90.6 1269	0.46 6.4	206 5778	21.8	7.764	27.690	15,327	1.93		
W7A	-10.36	9/4/96	1145			3.86 120	69.5 974	0.42 5.9	195 5481	22.1	7.807	28.271	15,649	2.61		
W7A	-10.36	10/9/96	1239			3.05 94	45.4 636	0.47 6.6	197 5529	21.5	7.877	28.926	16,011	3.92		
W7A	-10.36	11/6/96	1143			3.18 98	49.5 693	0.20 2.8	181 5091	21.3	7.842	28.254	15,639	2.73		
W7A	-10.36	12/17/96	1204			2.90 90	54.6 764	0.21 2.9	170 4764	22.3	7.889	28.486	15,768	3.19		
W7A	-10.36	1/14/97	1157			3.18 98	74.8 1048	0.21 2.9	192 5401	22.1	7.890	27.845	15,413	2.63		
W7A	-10.36	2/11/97	1021			2.46 76	75.3 1054	0.21 2.9	173 4856	22.7	7.973	29.586	16,377	4.14		
W7A	-10.36	3/11/97	909			3.45 107	138.0 1933	0.22 3.1	189 5300	21.4	7.938	28.416	15,729	2.46		
W7A	-10.36	4/23/97	1147			3.38 105	150.7 2111	0.34 4.8	170 4783	21.3	7.987	28.442	15,743	1.93		
W7A	-10.36	5/28/97	1034			3.61 112	147.5 2066	0.02 0.3	178 5005	20.5	7.975	28.503	15,777	1.84		
W7A	-10.36	6/17/97	1115			4.27 132	123.4 1728	0.21 2.9	174 4881	20.7	7.963	28.724	15,899	1.61		
W7A	-10.36	7/15/97	1110			5.55 172	154.1 2158	0.14 2.0	173 4862	21.0	7.903	28.524	15,789	0.41		
W7A	-10.36	8/26/97	1142			5.94 184	164.2 2300	0.29 4.1	186 5230	23.2	7.925	29.156	16,139	0.50		
W7A	-10.36	9/23/97	957			5.85 181	121.5 1702	0.23 3.2	189 5294	22.9	7.940	28.498	15,774	0.91		
W7A	-10.36	10/14/97	1045			5.12 159	85.5 1198	0.21 2.9	189 5303	22.3	7.932	28.419	15,731	1.90		
W7A	-10.36	11/4/97	914			4.41 137	75.9 1063	0.22 3.1	182 5112	21.4	7.993	28.698	15,885	1.78		
W7A	-10.36	12/16/97	1115			5.14 159	104.6 1465	0.08 1.1	193 5409	21.9	7.898	28.709	15,891	1.32		
W7A	-10.36	1/5/98	938			4.50 139	81.8 1146	0.02 0.3	168 4714	21.9	7.972	29.479	16,317	2.32		
W7A	-10.36	2/3/98	906			3.84 119	68.5 959	0.04 0.6	171 4814	22.4	8.028	29.549	16,356	2.83		
W7A	-10.36	3/10/98	935			5.11 158	83.7 1172	0.11 1.5	198 5555	21.8	7.741	28.274	15,650	2.04		
W7A	-10.36	4/14/98	1103			5.04 156	100.5 1408	0.01 0.1	190 5342	22.0	7.780	29.041	16,075	1.94		
W7A	-10.36	5/12/98	937			4.80 149	109.3 1531	0.09 1.3	191 5356	21.9	7.778	28.920	16,008	2.44		
W7A	-10.36	6/2/98	938			4.66 144	110.3 1545	0.10 1.4	191 5369	21.8	7.773	28.861	15,975	2.06		
W7A	-10.36	7/14/98	930			4.77 148	110.1 1542	0.18 2.5	186 5235	22.4	7.684	29.583	16,375	1.76		
W7A	-10.36	8/11/98	952			3.98 123	76.3 1068	0.09 1.3	175 4912	21.6	7.774	29.845	16,520	2.22		
W7A	-10.36	9/15/98	944			3.90 121	67.8 949	0.05 0.7	171 4797	21.3	7.749	30.350	16,800	1.59		
W7A	-10.36	10/13/98	844			4.60 142	95.2 1333	0.06 0.8	176 4937	22.4	7.704	30.368	16,809	1.19		
W7A	-10.36	11/4/98	937			4.38 136	84.4 1182	0.10 1.4	176 4932	23.1	7.724	30.295	16,769	1.13		
W7A	-10.36	12/16/98	927			4.65 144	82.4 1154	0.09 1.3	173 4853	23.2	7.698	29.843	16,519	1.77		
W7A	-10.36	1/12/99	958			4.20 130	76.4 1070	0.07 1.0	181 5078	22.9	7.712	30.024	16,619	2.24		
W7A	-10.36	2/3/99	950			4.34 134	97.4 1364	0.48 6.7	164 4603	22.7	7.695	30.096	16,659	2.25		

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Well 7A 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)
W7A	-10.36	3/2/99	947			4.31 133	89.2 1249	0.04 0.6	165 4640	22.6	7.724	30.075	16,647	2.70		
W7A	-10.36	4/6/99	934			4.19 130	89.8 1258	0.02 0.3	164 4592	22.3	7.701	30.596	16,936	2.09		
W7A	-10.36	5/4/99	943			3.78 117	72.4 1014	0.04 0.6	155 4364	21.2	7.759	30.276	16,759	2.73		
W7A	-10.36	6/2/99	933			3.20 99	58.7 822	0.10 1.4	150 4213	20.6	7.768	30.459	16,860	2.77		
W7A	-10.36	7/7/99	1011			3.53 109	59.8 838	0.07 1.0	150 4224	21.2	7.758	30.340	16,794	2.73		
W7A	-10.36	8/25/99	935			3.80 118	76.2 1067	0.15 2.1	147 4129	23.2	7.703	30.791	17,044	1.77		
W7A	-10.36	9/8/99	946			3.88 120	77.8 1089	0.06 0.8	153 4303	22.9	7.705	30.838	17,070	1.36		
W7A	-10.36	10/6/99	952			3.45 107	55.3 775	0.01 0.1	146 4109	22.0	7.738	30.699	16,993	2.95		
W7A	-10.36	11/3/99	1007			3.04 94	55.8 782	0.13 1.8	150 4210	21.7	7.783	30.485	16,874	2.74		
W7A	-10.36	12/15/99	1026			3.50 108	60.3 845	0.03 0.4	148 4162	22.6	7.712	30.849	17,076	2.87		
W7A	-10.36	1/11/00	1002			3.62 112	73.9 1035	0.15 2.1	149 4176	22.3	7.715	30.096	16,659	2.33		
W7A	-10.36	2/14/00	1001			4.02 125	73.2 1025	0.06 0.8	145 4081	22.6	7.720	30.349	16,799	2.31		
W7A	-10.36	3/22/00	1018			3.94 122	73.5 1029	0.05 0.7	146 4100	22.3	7.739	30.235	16,736	2.48		
W7A	-10.36	4/12/00	1008			4.07 126	66.4 930	0.03 0.4	150 4210	22.2	7.767	29.897	16,549	2.50		
W7A	-10.36	5/17/00	948			3.95 122	69.6 975	0.02 0.3	147 4123	21.9	7.718	29.977	16,593	2.10		
W7A	-10.36	6/6/00	1010			4.16 129	72.9 1021	0.03 0.4	200 5609	21.9	7.687	29.871	16,534	1.93		
W7A	-10.36	7/31/00	954			4.31 133	71.1 996	0.11 1.5	167 4679	22.5	7.677	29.921	16,562	1.75		
W7A	-10.36	8/30/00	955			4.00 124	74.9 1049	0.01 0.1	158 4423	23.3	7.576	30.513	16,890	1.29		
W7A	-10.36	9/6/00	937			3.90 121	75.7 1060	0.04 0.6	157 4409	23.4	7.545	30.773	17,034	1.01		
W7A	-10.36	10/25/00	1124			4.05 125	73.4 1028	0.10 1.4	158 4449	24.4	7.525	31.003	17,161	1.56		
W7A	-10.36	11/14/00	959			3.90 121	82.7 1158	0.27 3.8	154 4322	24.2	7.545	30.909	17,109	1.34		
W7A	-10.36	12/19/00	935			3.89 120	100 1405	0.11 1.5	151 4235	23.6	7.609	30.101	16,662	1.16		
W7A	-10.36	1/24/01	922			3.75 116	72.4 1014	0.11 1.5	170 4775	23.3	7.618	30.788	17,042	1.09		
W7A	-10.36	2/7/01	948			3.60 112	75.2 1053	0.08 1.1	150 4221	23.2	7.682	30.786	17,041	0.67		
W7A	-10.36	3/12/01	928			3.96 123	79.8 1118	0.01 0.1	156 4381	22.7	7.542	30.234	16,735	0.63		
W7A	-10.36	4/18/01	916			4.73 147	75.8 1062	0.03 0.4	143 4019	22.0	7.548	30.327	16,787	1.53		
W7A	-10.36	5/14/01	1050			4.94 153	78.6 1101	0.18 2.5	147 4117	21.9	7.589	30.169	16,699	1.67		
W7A	-10.36	6/13/01	942			4.88 151	80.2 1124	0.02 0.3	148 4159	21.9	7.593	30.316	16,781	1.46		
W7A	-10.36	7/24/01	1002			4.24 131	80.7 1130	0.06 0.8	154 4314	22.4	7.597	30.530	16,899	0.90		
W7A	-10.36	8/22/01	1001			4.34 134	88.6 1241	0.01 0.1	148 4143	22.8	7.586	30.572	16,922	0.82		
W7A	-10.36	9/17/01	1035			4.32 134	86.5 1212	0.02 0.3	153 4289	23.6	7.621	30.523	16,895	0.91		
W7A	-10.36	10/22/01	1023			4.12 128	82.6 1157	0.02 0.3	149 4196	23.4	7.631	30.478	16,870	1.31		
W7A	-10.36	11/5/01	1055			4.16 129	88.1 1234	0.02 0.3	150 4213	23.3	7.622	30.409	16,832	1.30		
W7A	-10.36	12/12/01	1039			4.24 131	86.6 1213	0.03 0.4	155 4359	22.8	7.642	29.943	16,574	1.70		
W7A	-10.36	1/7/02	1038			2.80 87	47.4 664	0.26 3.6	133 3741	23.3	7.848	31.262	17,304	4.33		

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Well 7A 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)
W7A	-10.36	2/25/02	958			4.58 142	97.1 1361	0.05 0.7	158 4429	22.1	7.692	30.216	16,725	1.78		
W7A	-10.36	3/18/02	1023			4.90 152	97.4 1364	0.28 3.9	147 4129	21.9	7.727	30.218	16,726	1.36		
W7A	-10.36	4/10/02	1029			5.56 172	126 1761	2.97 41.6	150 4224	22.0	7.780	30.104	16,663	0.37		
W7A	-10.36	5/22/02	1037			6.94 215	79.1 1108	0.14 2.0	157 4415	22.1	7.862	29.592	16,380	0.19		
W7A	-10.36	6/19/02	1122			6.62 205	73.3 1027	0.11 1.5	156 4379	22.4	7.778	30.000	16,606	0.40		
W7A	-10.36	7/22/02	1105			6.36 197	59.9 839	0.15 2.1	159 4468	23.2	7.727	30.064	16,641	0.81		
W7A	-10.36	8/21/02	1133			5.87 182	54.8 767	0.22 3.1	159 4454	23.4	7.656	30.380	16,816	0.61		
W7A	-10.36	9/25/02	1039			5.54 172	60.7 850	0.26 3.6	171 4794	23.4	7.622	30.531	16,900	0.42		
W7A	-10.36	10/15/02	1050			6.31 195	61.1 856	0.25 3.5	158 4429	23.9	7.637	30.344	16,796	0.27		
W7A	-10.36	11/17/02	1018			6.25 194	72.5 1015	0.36 5.0	163 4567	24.1	7.634	30.244	16,741	0.26		
W7A	-10.36	12/18/02	1042			5.92 183	68.9 965	0.05 0.7	161 4511	23.8	7.690	29.967	16,588	0.82		
W7A	-10.36	1/23/03	1050			3.54 110	50.7 710	0.02 0.3	123 3446	24.1	7.854	32.297	17,877	4.16		
W7A	-10.36	2/11/03	1107			6.80 211	97.3 1363	0.07 1.0	153 4291	23.1	7.718	30.150	16,689	0.53		
W7A	-10.36	3/20/03	1136			7.85 243	149.4 2093	0.09 1.3	157 4409	23.9	7.793	29.848	16,522	0.58		
W7A	-10.36	4/30/03	1013			7.44 230	102.5 1436	0.16 2.2	156 4387	22.7	7.835	30.083	16,652	0.61		
W7A	-10.36	5/14/03	918			7.24 224	86.3 1208	0.04 0.6	153 4291	22.6	7.815	30.195	16,714	0.19		
W7A	-10.36	6/4/03	1001			7.76 240	62.3 873	1.07 15.0	152 4272	22.9	7.803	30.290	16,766	0.37		
W7A	-10.36	7/30/03	934			9.05 280	47.7 667	7.28 102.0	156 4384	23.0	7.836	30.056	16,637	0.42		
W7A	-10.36	8/28/03	938			3.10 96	70.4 986	0.15 2.1	151 4249	23.9	7.748	30.199	16,716	0.77		
W7A	-10.36	9/16/03	946			7.38 229	65.1 912	0.08 1.1	152 4255	23.6	7.709	30.344	16,796	0.41		
W7A	-10.36	10/8/03	933			7.46 231	51.4 720	0.86 12.0	155 4353	23.5	7.685	30.257	16,748	NA		
W7A	-10.36	11/5/03	946			7.24 224	51.9 727	2.09 29.3	166 4662	23.7	7.684	29.795	16,492			
W7A	-10.36	11/14/03	959							23.3				0.16		
W7A	-10.36	12/17/03	1154			6.91 214	72.0 1008	1.12 15.7	162 4541	24.7	7.646	29.984	16,597	0.60		
W7A	-10.36	1/28/04	1037			6.38 198	73.8 1034	0.73 10.2	177 4968	24.0	7.662	29.374	16,259	0.72		
W7A	-10.36	2/11/04	933			6.50 201	90.8 1271	0.13 1.8	160 4480	23.0	7.600	29.503	16,331	0.73		
W7A	-10.36	3/16/04	1020			7.12 221	94.7 1326	0.16 2.2	165 4620	23.3	7.621	29.295	16,216	0.54		
W7A	-10.36	4/22/04	1006			7.26 225	96.7 1355	0.28 3.9	162 4558	22.5	7.705	29.299	16,218	1.30		
W7A	-10.36	5/18/04	1001			7.29 226	83.0 1162	0.20 2.8	163 4572	22.2	7.591	28.74	15,908	0.94		
W7A	-10.36	6/8/04	1038			6.96 216	84.2 1180	0.15 2.1	165 4620	22.3	7.587	28.85	15,969	1.20		
W7A	-10.36	7/15/04	951			7.41 230	88.2 1235	0.18 2.5	165 4637	22.5	7.537	28.67	15,870	1.06		
W7A	-10.36	8/25/04	1027			6.66 206	93.1 1304	0.18 2.5	162 4561	22.6	7.540	28.90	15,997	1.05		
W7A	-10.36	9/27/04	1139			6.78 210	95.7 1340	0.22 3.1	173 4859	22.8	7.524	29.20	16,163	0.78		
W7A	-10.36	10/4/04	1058			6.60 204	86.6 1214	0.20 2.8	156 4384	22.8	7.551	29.36	16,252	1.02		
W7A	-10.36	11/23/04	932			6.36 197	64.1 898	0.08 1.1	174 4892	23.3	7.494	29.24	16,185	1.26		

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	12/8/04	942			6.40 198	61.6 863	0.92 12.9	170 4769	23.9	7.492	29.53	16,346	0.47		
W7A	-10.36	1/18/05	941			4.70 146	46.3 649	0.06 0.8	141 3952	23.7	7.764	31.050	17,187	3.15		
W7A	-10.36	2/10/05	925			6.16 191	62.7 878	0.24 3.4	159 4463	23.1	7.641	29.914	16,558	0.66		
W7A	-10.36	3/22/05	930			9.18 284	75.4 1056	0.13 1.8	153 4289	23.1	7.832	29.829	16,511	0.36		
W7A	-10.36	4/20/05	930			7.46 231	85.9 1203	0.09 1.3	146 4100	22.9	7.782	30.257	16,748	1.21		
W7A	-10.36	5/25/05	942			7.26 225	68.8 963	0.15 2.1	150 4202	21.8	7.699	30.109	16,666	1.21		
W7A	-10.36	6/14/05	943			6.94 215	65.0 910	0.10 1.4	150 4218	23.4	7.687	30.170	16,700	0.48		
W7A	-10.36	7/19/05	934			6.56 203	69.0 967	0.09 1.3	150 4207	23.1	7.674	30.298	16,771	1.64		
W7A	-10.36	8/3/05	1004			6.56 203	60.0 841	0.06 0.8	153 4286	24.1	7.711	30.287	16,765	1.32		
W7A	-10.36	9/22/05	926			6.20 192	61.0 854	0.14 2.0	156 4370	24.4	7.719	30.378	16,815	1.80		
W7A	-10.36	10/19/05	938			5.90 183	74.7 1046	0.11 1.5	158 4432	24.9	7.703	30.340	16,794	1.42		
W7A	-10.36	11/8/05	924			5.62 174	73.2 1025	0.12 1.7	141 3952	24.5	7.710	30.095	16,658	1.14		
W7A	-10.36	12/22/05	856			4.22 131	52.3 732	0.32 4.5	141 3946	24.3	7.767	31.121	17,226	2.45		
W7A	-10.36	1/31/06	923			4.00 124	68.6 961	0.35 4.9	144 4036	24.4	7.595	30.715	17,002	1.41		
W7A	-10.36	2/16/06	920			3.96 123	67.7 949	0.27 3.8	141 3954	23.9	7.605	30.729	17,009	1.53		
W7A	-10.36	3/22/06	911			3.74 116	69.5 973	0.29 4.1	135 3792	23.6	7.478	30.627	16,953	0.33		
W7A	-10.36	4/27/06	957			3.91 121	68.6 961	0.10 1.4	129 3623	24.1	7.524	30.766	17,030	1.82		
W7A	-10.36	5/24/06	1017			3.79 117	63.6 891	0.05 0.7	133 3735	24.6	7.522	30.594	16,935	3.19		
W7A	-10.36	6/28/06	1001			3.89 120	57.8 810	0.19 2.7	125 3511	24.9	7.547	30.894	17,101	2.18		
W7A	-10.36	7/19/06	939			4.07 126	60.1 842	0.21 2.9	137 3848	24.7	7.55	30.275	16,758	2.82		
W7A	-10.36	8/9/06	1034			3.50 108	53.1 744	0.19 2.7	127 3567	25.8	7.536	31.424	17,394	1.28		
W7A	-10.36	9/20/06	1050			3.41 106	44.0 616	4.6 64.4	123 3455	25.7	7.428	31.270	17,309	0.47		
W7A	-10.36	10/25/06	1009			3.45 107	43.1 604	0.94 13.2	127 3567	26.2	7.429	31.277	17,313	0.81		
W7A	-10.36	11/29/06	1047			3.52 109	45.5 637	0.31 4.3	124 3483	25.9	7.43	31.394	17,377	0.57		
W7A	-10.36	12/13/06	1037			3.59 111	46.3 649	0.24 3.4	120 3370	25.7	7.455	31.509	17,441	0.64		
W7A	-10.36	1/10/07	1040			3.86 120	45.9 643	0.22 3.1	118 3314	24.5	7.483	31.381	17,370	1.28		
W7A	-10.36	2/21/07	1105			3.47 107	43.2 605	0.51 7.1	115 3230	24.7	7.624	30.830	17,065	1.84		
W7A	-10.36	3/7/07	1059			3.48 108	55.4 776	0.30 4.2	120 3370	24.1	7.602	31.127	17,230	1.39		
W7A	-10.36	4/19/07	1043			3.46 107	55.0 770	0.25 3.5	124 3483	24.9	7.541	31.039	17,181	0.85		
W7A	-10.36	5/2/07	1046			3.40 105	45.4 636	0.25 3.5	119 3342	24.6	7.536	31.372	17,365	0.86		
W7A	-10.36	6/20/07	1050			3.21 99	36.5 511	0.27 3.8	113 3174	25.3	7.509	31.574	17,477	0.80		
W7A	-10.36	7/25/07	1211		1.8 Flood	3.56 110	46.0 645	0.76 10.6	106 2966	25.2	7.46	31.70	17,547	1.15		
W7A	-10.36	8/27/07	1200		0.8 Flood	3.78 117	47.1 660	0.31 4.4	99 2777	25.8	7.52	31.25	17,298	2.98		
W7A	-10.36	9/13/07	1613		1.3 Flood	3.46 107	50.0 700	0.81 11.4	117 3286	25.0	7.49	30.74	17,015	0.60		
W7A	-10.36	10/23/07	1143		1.25 Flood	4.72 146	54.2 759	0.01 0.2	142 3986	22.8	7.39	30.34	16,794	0.14		

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	11/20/07	1151		1.4 Flood	5.08 157	55.6 779	0.79 11.1	159 4468	23.0	7.38	29.86	16,528	2.67		
W7A	-10.36	12/19/07	1143		1 High	5.06 157	66.8 936	1.06 14.8	155 4364	22.5	7.39	29.07	16,091	1.36		
W7A	-10.36	1/28/08	854		1.4 Ebb	4.31 134	28.8 404	0.80 11.2	138 3880	22.6	7.22	29.94	16,573	0.87		
W7A	-10.36	2/26/08	1037		0.3 Ebb	5.87 182	74.9 1050	0.67 9.4	151 4237	22.1	7.42	29.89	16,545	0.72		
W7A	-10.36	3/17/08	1237		0.6 Flood	6.21 192	94.0 1316	0.09 1.2	193 5423	22.5	7.49	29.68	16,429	3.78		
W7A	-10.36	4/30/08	1153		0.9 Flood	6.50 201	97.3 1363	0.09 1.2	155 4344	21.0	7.25	29.58	16,373	1.88		
W7A	-10.36	5/27/08	1147		0.8 High	5.59 173	94.3 1321	0.09 1.2	183 5147	20.3	7.35	29.36	16,252	6.47		
W7A	-10.36	6/16/08	1211		1 Flood	5.88 182	88.6 1241	0.02 0.3	164 4595	21.0	7.38	29.78	16,484	5.87		
W7A	-10.36	7/21/08	1134		0.3 Low	5.87 182	88.1 1234	0.20 2.8	144 4058	21.1	7.27	30.29	16,766	1.62	0.21	
W7A	-10.36	8/30/08	1448		1.9 Flood	6.29 195	84.3 1181	0.89 12.4	149 4175	22.6	7.38	30.51	16,888	1.01	0.14	
W7A	-10.36	9/15/08	1201		0.4 Flood	7.05 219	98.8 1383	0.10 1.4	145 4069	22.3	7.36	30.27	16,755	2.54		
W7A	-10.36	10/30/08	1045		0.5 Low	4.02 124	98.0 1372	0.20 2.8	127 3580	21.2	7.14	30.13	16,678	0.10	0.37	
W7A	-10.36	11/25/08	1015		0.5 Low	7.34 228	130.3 1826	0.18 2.5	168 4717	21.1	7.33	29.73	16,456	0.16	0.23	
W7A	-10.36	12/16/08	1033		1.3 Ebb	7.32 227	110.3 1545	0.11 1.5	155 4367	20.7	7.48	30.21	16,722	1.66		
W7A	-10.36	1/26/09	1420		0.5 Flood	5.88 182	99.3 1391	0.71 10.0	125 3510	20.6	7.57	31.16	17,248	2.94	0.18	
W7A	-10.36	2/26/09	1052		0.1 Low	6.03 187	105.7 1480	0.53 7.4	143 4006	20.6	7.39	30.98	17,148	2.28	0.06	
W7A	-10.36	3/23/09	1023		0.2 Flood	5.04 156	97.6 1367	0.13 1.8	133 3748	20.1	7.34	30.79	17,043	1.78	0.15	
W7A	-10.36	4/27/09	1025		-0.2 Low	7.87 244	91.6 1283	0.29 4.1	129 3627	20.8	7.46	31.00	17,159	1.69	0.07	
W7A	-10.36	5/27/09	1405		0.6 Flood	5.98 185	80.5 1127	0.24 3.3	111 3130	20.8	7.42	30.70	16,993	1.64	0.03	
W7A	-10.36	6/19/09	1044		1.3 Flood	4.72 146	62.7 879	0.39 5.5	107 2997	20.4	7.45	30.83	17,065	1.91	0.05	
W7A	-10.36	7/31/09	1002		1.5 Flood	7.20 223	80.2 1123	0.30 4.2	105 2954	22.3	7.46	30.86	17,082	1.70	0.06	
W7A	-10.36	8/20/09	1121		0.3 Flood	4.46 138	60.3 845	1.22 17.1	107 2992	21.6	7.46	30.81	17,054	1.00	0.02	
W7A	-10.36	9/24/09	1025		1.7 Ebb	5.54 172	79.5 1114	0.51 7.2	114 3198	20.1	8.21	29.84	16,517	0.46	0.02	
W7A	-10.36	10/30/09	1050		0.7 Flood	6.24 193	74.4 1042	0.40 5.6	112 3147	21.5	7.37	29.75	16,467	0.32	0.02	
W7A	-10.36	11/17/09	1114		0.4 Low	6.88 213	91.7 1285	0.92 12.9	157 4413	21.4	7.39	29.63	16,401	0.51	0.04	
W7A	-10.36	12/8/09	1505		0.3 Ebb	6.17 191	90.5 1268	1.12 15.7	169 4738	21.8	7.40	29.78	16,484	1.04	0.16	
W7A	-10.36	1/4/10	1516		-0.1 Low	6.10 189	83.6 1171	1.14 16.0	172 4829	21.1	7.50	29.84	16,517	2.35	0.02	
W7A	-10.36	2/2/10	1516		-0.2 Low	5.78 179	102.5 1436	0.50 7.0	150 4203	23.7	7.58	29.96	16,584	2.03	0.15	
W7A	-10.36	3/10/10	1355		0.7 High	6.07 188	85.7 1201	0.50 7.0	181 5078	22.8	7.59	29.28	16,207	2.70	0.11	
W7A	-10.36	4/7/10	1217		0.7 High	5.49 170	77.1 1080	0.86 12.0	181 5095	19.2	7.65	29.45	16,301	3.88	0.18	
W7A	-10.36	5/12/10	1337		1.5 Flood	4.97 154	70.8 992	0.86 12.0	164 4605	20.1	7.70	29.66	16,418	4.10	0.07	
W7A	-10.36	6/16/10	1153		0.3 Low	5.39 167	69.9 979	0.36 5.0	174 4880	20.5	7.65	30.01	16,611	3.36	0.21	
W7A	-10.36	7/14/10	936		0.5 Ebb	4.97 154	67.4 944	0.07 1.0	180 5045	20.0	7.62	30.00	16,606	3.01	0.09	
W7A	-10.36	8/4/10	1017		1.7 Flood	5.62 174	68.9 965	0.18 2.5	176 4938	19.7	7.67	30.11	16,667	3.46	0.14	
W7A	-10.36	9/13/10	1555		0.7 Low	5.71 177	64.8 907	0.17 2.4	174 4876	20.0	7.61	30.10	16,661	2.85	0.11	

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	10/11/10	1110		1.3 Ebb	5.71 177	62.3 872	0.49 6.8	174 4891	20.2	7.65	29.88	16,539	2.98	0.07	
W7A	-10.36	11/15/10	1223		1.3 High	5.78 179	69.2 969	0.61 8.6	173 4848	20.5	7.62	30.23	16,733	3.05	0.08	
W7A	-10.36	12/13/10	1002		1.3 High	6.26 194	73.7 1032	0.09 1.3	158 4439	20.1	7.56	29.90	16,550	2.16	0.07	
W7A	-10.36	1/3/11	1418		0.5 Flood	6.59 204	76.2 1067	0.13 1.8	173 4849	20.7	7.55	29.72	16,451	1.84	0.06	
W7A	-10.36	4/4/11	1459		1.3 Flood	4.81 149	72.8 1019	0.04 0.6	151 4233	19.5	7.58	30.11	16,667	3.11	0.02	
W7A	-10.36	7/11/11	1419		2.4 High	4.78 148	67.2 941	0.12 1.7	165 4647	20.3	7.63	29.77	16,478	3.64	0.05	
W7A	-10.36	10/10/11	1315		1.1 Flood	4.71 146	64.5 904	0.21 3.0	158 4449	20.6	7.66	30.29	16,766	3.94	0.08	
W7A	-10.36	1/9/12	1338		0.2 Flood	5.59 173	82.5 1155	0.10 1.4	170 4771	21.2	7.59	29.56	16,362	2.08	0.08	
W7A	-10.36	5/8/12	1437		0.8 Flood	4.78 148	64.2 899	0.25 3.5	167 4694	20.0	7.66	30.26	16,750	3.90	0.09	
W7A	-10.36	7/17/12	1348		2.1 Flood	4.68 145	74.7 1046	2.16 30.3	153 4293	19.9	7.60	30.93	17,121	3.35	0.68	
W7A	-10.36	10/15/12	1147		0.2 Flood	5.20 161	74.0 1037	0.16 2.2	153 4288	20.6	7.54	30.96	17,137	2.44	0.02	
W7A	-10.36	1/7/13	1244		0.8 High	5.94 184	107.2 1502	0.05 0.7	187 5264	20.0	7.59	30.91	17,109	2.71	0.09	
W7A	-10.36	4/8/13	1225		0.6 Flood	5.39 167	81.0 1134	0.27 3.8	143 4015	19.8	7.66	30.73	17,010	2.78	0.06	
W7A	-10.36	7/16/13	1434		1.2 Ebb	3.97 123	60.5 848	0.11 1.5	139 3894	19.9	7.66	30.65	16,966	3.77	0.10	
W7A	-10.36	10/1/13	1602		1.0 Ebb	4.97 154	85.7 1200	0.30 4.2	149 4175	20.2	7.54	30.70	16,993	2.57	0.12	
W7A	-10.36	1/14/14	1459		0.7 High	6.10 189	95.1 1332	0.36 5.1	156 4376	20.1	7.55	30.54	16,905	2.47	0.02	
W7A	-10.36	4/28/14	1720		0.579 High	4.65 144	90.2 1264	0.34 4.7	143 4019	20.2	7.64	30.12	16,672	4.47	0.42	
W7A	-10.36	7/28/14	1454		0.488 Flood	4.94 153	74.9 1049	0.29 4.0	146 4113	20.8	7.54	30.72	17,004	2.78	0.05	
W7A	-10.36	11/13/14	1146		0.37 Flood	4.81 149	70.2 983	0.18 2.5	140 3938	21.6	7.82	30.67	16,977	2.62	0.05	
W7A	-10.36	2/9/15	1555		0.30 Low	7.42 230	122.4 1714	0.26 3.7	169 4739	21.2	7.51	30.95	17,132	1.91	0.02	
W7A	-10.36	4/1/15			No sample											
W7A	-10.36	8/14/15	1047		0.09 Flood	5.02 156	72.3 1012	0.49 6.9	133 3735	20.7	7.53	31.06	17,193	4.65	0.05	
W7A	-10.36	11/13/15	952		0.15 Low	6.15 191	104.7 1467	0.18 2.5	146 4114	21.8	7.61	29.89	16,545	2.07	0.07	
W7A	-10.36	1/27/16	1610		0.3 Flood	5.21 162	87.5 1226	0.14 1.9	140 3932	20.5	7.67	30.58	16,927	3.52	0.03	
W7A	-10.36	4/26/16	1525		0.3 Flood	5.27 163	88.8 1244	0.44 6.2	128 3599	21.4	7.31	30.95	17,132	4.30	0.08	
W7A	-10.36	7/27/16	1226		0.5 Flood	4.32 134	66.8 936	0.60 8.4	124 3477	21.8	7.70	30.58	16,927	3.69	0.15	
W7A	-10.36	11/10/16	1306		0.55 High	4.80 149	80.5 1128	0.79 11.1	130 3652	26.0	7.59	31.03	17,176	3.03	0.22	
W7A	-10.36	3/22/17			No Sample - well clogged											
W7A	-10.36	4/19/17			No Sample - well clogged											
W7A	-10.36	9/19/17			No Sample - well clogged											
W7A	-10.36	10/19/17			No Sample - well clogged											
W7A	-10.36	3/23/18			No Sample - well clogged											
W7A	-10.36	5/11/18			No Sample - well clogged											
W7A	-10.36	9/4/18	1249		0.67 High	4.71 146	53.5 749	0.71 10.0	145 4069	20.0	7.68	30.30	16,772	3.74	0.07	
W7A	-10.36	11/1/18	1102		0.61 High	4.64 144	67.1 940	0.05 0.7	148 4147	21.0	7.59	29.89	16,545	3.66	0.09	

NELHA Water Quality Laboratory

Well 7A 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)
W7A	-10.36	2/8/19	1419		0.10 Flood	5.84 181	78.8 1104	0.06 0.8	162 4536	21.8	7.44	29.46	16,307	2.94	0.63	
W7A	-10.36	5/16/19	1027		0.08 Flood	3.88 120	73.5 1029	0.50 7.0	144 4052	27.6	7.61	30.95	17,132	4.01	7.12	
W7A	-10.36	8/28/19	1628		0.65 High	4.72 146	73.6 1030	0.15 2.1	161 4535	30.3	7.69	30.16	16,694	5.94	1.82	
W7A	-10.36	10/16/19	1138		0.16 Low	4.13 128	62.1 870	0.37 5.2	152 4279	28.1	7.80	30.47	16,866	5.43	2.43	
W7A	-10.36	2/5/20	1611		0.15 Ebb	4.67 145	71.1 996	-0.22 -3.1	156 4392	25.2	7.70	30.54	16,905	5.18	2.46	
W7A	-10.36	6/3/20	1459		0.67 High	3.36 104	67.5 945	0.33 4.6	153 4301	26.8	7.69	30.58	16,927	6.01	2.22	
W7A	-10.36	8/19/20	1419		0.6 Flood	2.83 88	73.5 1029	0.19 2.6	153 4300	29.6	7.82	31.16	17,248	5.20	0.92	
W7A	-10.36	12/10/20	1044		0.45 High	4.38 136	64.9 910	0.29 4.1	149 4194	23.6	7.49	30.85	17,076	3.89	0.59	
W7A	-10.36	2/18/21	1426		0.05 Low	4.12 128	80.9 1133	0.16 2.3	147 4116	23.7	7.47	30.67	16,977	3.62	0.31	
W7A	-10.36	4/15/21	1150		0.00 Low	4.67 145	97.4 1364	0.09 1.3	153 4309	25.9	7.41	30.20	16,716	3.23	0.46	
W7A	-10.36	7/7/21	1428		0.6 High	4.91 152	82.8 1160	0.27 3.8	154 4314	28.2	7.51	29.90	16,550	5.78	0.67	
W7A	-10.36	11/9/21	1313		0.2 Low	6.17 191	66.6 933	0.66 9.2	172 4837	25.2	7.38	30.34	16,794	3.54	0.60	
W7A	-10.36	2/8/22	1502		0.05 Low	6.41 198	120.7 1690	0.21 3.0	175 4901	23.8	7.44	29.63	16,401	1.36	0.44	
W7A	-10.36	4/21/22	1121		-0.01 Low	3.53 109	67.9 951	0.04 0.6	136 3810	25.4	7.62	29.83	16,512	6.57	0.33	
W7A	-10.36	7/13/22	1359		0.65 Flood	3.53 109	62.0 868	-0.31 -4.3	136 3819	24.7	7.47	30.74	17,015	4.21	0.41	
W7A	-10.36	11/25/22	1107		0.15 Low	3.29 102	64.4 901	0.03 0.4	128 3584	24.0	7.55	30.21	16,722	4.82	0.44	
W7A	-10.36	1/26/23	1148		0.1 Low	3.69 114	66.6 932	0.17 2.4	133 3724	23.2	7.71	30.11	16,667	6.34	0.36	
W7A	-10.36	4/26/23	1436		0.13 Flood	3.81 118	63.8 893	0.04 0.6	139 3898	24.0	7.63	29.77	16,478	2.95	0.27	
W7A	-10.36	8/15/23	1414		0.5 Flood	3.13 97	66.2 927	-0.01 -0.1	138 3874	24.0	7.62	29.68	16,429	5.55	0.53	
W7A	-10.36	11/16/23	1307		0.19 Low	3.28 102	70.3 984	0.49 6.9	136 3811	23.9	7.61	29.99	16,600	5.06	0.66	126.6
W7A	-10.36	1/24/24	1158		0.5 Flood	2.41 75	46.4 650	0.16 2.2	112 3141	24.4	7.75	31.22	17,281	3.92	0.30	148.3
W7A	-10.36	5/7/24	1431		0.69 High	2.99 93	68.3 957	-0.04 -0.6	121 3389	23.6	7.70	30.14	16,683	3.32	0.42	165.3
W7A	-10.36	8/2/24	1112		0.3 Flood	3.76 116	80.3 1124	0.14 1.9	130 3649	24.4	7.66	30.01	16,611	3.97	0.34	123.3
W7A	-10.36	12/11/24	1150		0.43 High	3.60 112	69.0 967	0.24 3.3	113 3183	25.4	7.73	30.09	16,656	5.49	0.46	228.7
W7A	-10.36	1/10/25	1423		0.15 Ebb	3.58 111	70.0 981	13.11 183.6	106 2981	23.3	7.74	30.59	16,932	5.20	0.25	152.7
W7A	-10.36	5/14/25	1527		0.5 High	2.55 79	62.7 878	0.06 0.8	107 3012	24.1	8.26	30.05	16,633	6.12	0.45	134.0
Mean					0.65	4.70 146	73.38 1028	0.84 11.8	163 4577	22.3	7.67	29.78	16,485	2.36	0.40	154.1
Std. Dev.					0.54	1.43 44	22.82 320	7.77 108.9	35 993	2.1	0.18	1.19	660	1.62	0.91	36.1
Maximum					2.40	9.18 284	164.20 2300	125.40 1756.4	387 10878	30.3	8.26	32.30	17,877	6.98	7.12	228.7
Minimum					-0.20	2.09 65	27.85 390	-0.31 -4.3	99 2777	15.1	7.14	23.77	13,159	0.10	0.02	123.3
n					93	262 262	262 262	262 262	262 262	263	262	262	261	261	79	7